



Georgia Power Thomson-Vogtle 500kV Transmission Line Mcduffie County, Georgia



WETLAND & ECOLOGICAL CONSULTANTS, LLC Woodstock, Georgia Features Map 2a
WEC Project No. 02-050508

Wetland Feature Datasheet

Feature No.: W-2	Map No.: 1e, 2a	Feature ID.: 01wet020	Type: Shrub-Scrub & Emergent	
Date Surveyed: 4/19/2011	County: McDuffie	Watershed: Brier		
8-Digit HUC1: 03060108		12-Digit HUC: 030601080102		
Total Acreage: 1.79		Forested Acreage: 0		

Dominant Vegetation: Acer rubrum, Quercus nigra, Andropogon virginicus, Carex festucacea, Brasenia schreberi

Comments:



¹ HUC – U.S. Geological Survey Hydrologic Unit Code

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmission Li Applicant/Owner: Georgia Power Company	ne City/	County: McDuffie	County	Sampling Date: 4/18/2011
Applicant/Owner: Georgia Power Company			State: GA	Sampling Point DP3 (W-2)
nvestigator(s): MWO and MDH	Sec	ion, Township, Rang	ie:	
_andform (hillslope, terrace, etc.):	Loca	l relief (concave, cor	ovex none).	Slone (%)
Subregion (LRR or MLRA): LRR P				
Soil Map Unit Name: Are climatic / hydrologic conditions on the site typical f	and this disease of the second	V X N.	NVVI class	ification:
Are Vegetation, Soil, or Hydrology Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS - Attach site n	significantly distu	natic? (If need	ormal Circumstances ded, explain any ans	s" present? Yes X No No wers in Remarks.)
Hydrophytic Vegetation Present? Hydric Soil Present? Yes Yes		Is the Sampled A within a Wetland	rea	⊠ No
HYDROLOGY Wetland Hydrology Indicators:			Secondary lad	icators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)			icators (minimum of two required) oil Cracks (B6)
	Water-Stained Leav Aquatic Fauna (B13 Marl Deposits (B15) Hydrogen Sulfide O Oxidized Rhizosphe Presence of Reduce Recent Iron Reducti Thin Muck Surface Other (Explain in Re	(LRR U) dor (C1) res on Living Roots (ed Iron (C4) on in Tilled Soils (C6)	Drainage Moss Trim Dry-Seaso (C3) Crayfish B Saturation Geomorph Shallow A	Vegetated Concave Surface (B8) Patterns (B10) I Lines (B16) On Water Table (C2) Surrows (C8) I Visible on Aerial Imagery (C9) Dic Position (D2) quitard (D3) ral Test (D5)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring variance)	Depth (inches): 3 Depth (inches): 0	Wetla	and Hydrology Pres	
Remarks:				

VEGETATION - Use so	cientific names of	plants.
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5 5		er	That Are OBL, FACW, or FAC: 5 (A) Total Number of Dominant Species Across All Strata: 5 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/ Prevalence Index worksheet: Total % Cover of: Multiply by:
5 5	= Total Cov		That Are OBL, FACW, or FAC: 100% (A/
5 5	×		
5 5	×		Total % Cover of
5 5	×		I Julia 70 Cover OI. IVIUILIDIY DV.
5		FAC	OBL species x 1 =
	×		FACW species x 2 =
		FAC	FAC species x 3 =
			FACU species x 4 =
			UPL species x 5 =
			Column Totals: (A) (E
			(5)
	一百		Prevalence Index = B/A =
10	Total Cav		Hydrophytic Vegetation Indicators:
10	= Total Cove	er	▼ Dominance Test is >50%
			Prevalence Index is ≤3.0 ¹
			Problematic Hydrophytic Vegetation ¹ (Explain)
			¹ Indicators of hydric soil and wetland hydrology must
	一片		be present, unless disturbed or problematic.
	一片		
	ㅡ님		Definitions of Vegetation Strata:
			Tree - Woody plants, excluding woody vines,
	Total Cove	er	approximately 20 ft (6 m) or more in height and 3 in.
30	×	FAC	(7.6 cm) or larger in diameter at breast height (DBH).
			Sapling – Woody plants, excluding woody vines,
	- Second		approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
			than 5 m. (1.0 cm) DBM.
			Shrub – Woody plants, excluding woody vines,
	$- \exists$		approximately 3 to 20 ft (1 to 6 m) in height.
- 10		IN/A	Herb - All herbaceous (non-woody) plants, including
	블		herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height.
			Woody vine – All woody vines, regardless of height.
90 =	Total Cove	er	
	빝		
			Hydrophytic Vegetation
	Total Cove	er	Present? Yes X No
ow).	in the cal	culations	for dominance
moluded	in the call	Julations	tor dominance.
	30 5 15 15 10 15	10 = Total Cove	10 = Total Cover

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mnl	na	Point	

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Color (moist)		Matrix		R	edox Featu	res			
4 10YR4/1 100 16 2.5Y5/2 95 10YR5/6 5 C PL Sand Mottled S. Loam Sandy Loam Mottled	Depth inches)	Color (moist)					Loc ²		Remarks
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Polyvalue Below Surface (S8) (LRR S, T, U)	-2	10YR2/1	100					S. Loam	Sandy Loam; Organic muck
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Coated Sand Grains Carlos Sand Grains Ca	-4	10YR4/1	100					S. Loam	Sandy Loam
Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Hydric Soil Indicators Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Mucky Presence (A8) (LRR P, T) Depleted Dark Surface (F7) Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Delta Ochric (F17) (MLRA 151) Polyvalue Below Surface (S8) (LRR S, T, U) Tom Muck (A9) (LRR S, T, U) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, F, D) Marl (F10) (LRR U) Depleted Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	-16	2.5Y5/2	95	10YR5/6	5	С	PL	Sand	Mottled
Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Loam Mucky Mineral (A7) (LRR P, T, U) Tom Muck (A9) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Depleted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Polyvalue Below Surface (S8) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Pedduced Vertic (F18) (outside MLRA 150 Reduced Vertic (F18) (outside MLRA 150 Reduced F13) (LRR O) Piedmont Floodplain Soils (F19) (LRR O, P, T) Warl (F10) (LRR U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR O, P, T) Delta Ochric (F17) (MLRA 150A) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No						 			
Histosol (A1) Histic Epipedon (A2) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 1 cm Muck (A9) (LRR P, T, U) Depleted Matrix (F2) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Derived Matrix (S4) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No I cm Muck (A9) (LRR O, ICRR O, IC			pletion, RM	=Reduced Matrix	, CS=Cove	red or Coate	ed Sand G		
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F1) 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 Redox (S5) Stripped Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Type: Depth (inches): Thin Dark Surface (S9) (LRR S, T, U) Loamy Mucky Mineral (F1) (LRR O) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S) Reduced Vertic (F18) (outside MLRA 150A) Reduced Vertic (F18) Reduced Vertic (F18) Reduced Vertic (F18) Reduced Vertic (F18) Reduced Vertic (F19) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No Hydric Soil Present? Yes No	dric Soil	Indicators:							s for Problematic Hydric Soils ³ :
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A7) (LRR P, T, U) Stratified Layers (A8) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Loamy Mucky Mineral (F1) (LRR O) Depleted Matrix (F2) Depleted Matrix (F2) Piedmont Floodplain Soils (F19) (MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A) Piedmont Floodplain Soils (F19) (LRR P, S, T, U) Reduced Vertic (F18) (outside MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A) Reduced Vertic (F18) (IRR P, S) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks) Other (Explain in Remarks) Umbric Surface (F13) (LRR P, T, U) Depleted Ochric (F11) (MLRA 151) Umbric Surface (F13) (LRR P, T, U) Delta Ochric (F17) (MLRA 151) unless disturbed or problematic. Reduced Vertic (F18) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No	Histoso	l (A1)							
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S7) Depleted Dark Surface (F13) (LRR P, T, U) Depleted Dark Surface (F13) (LRR P, T, U) Depleted Dark Surface (F13) (LRR D, P, T) Depleted Dark Surface (F13) (LRR O, P, T) John (Explain in Remarks) John (Explain	Histic E	pipedon (A2)						2 cm	Muck (A10) (LRR S)
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A6) (LRR P, T, U) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A6) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks) Depleted Derive Grain (End of the strategy of t	Black H	listic (A3)					R O)	Redu	ced Vertic (F18) (outside MLRA 150/
Organic Bodies (A6) (LRR P, T, U) 5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depleted Dark Surface (F6) (MLRA 153B) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, O) Very Shallow Dark Surface (TF12) (LRR T, O) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Inon-Manganese Masses (F12) (LRR O, P, T) Wetland hydrology must be present, unless disturbed or problematic. Which Tree (TF1) (MLRA 151) Freedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Type: Depth (inches): Hydric Soil Present? Yes No	Hydrog	en Sulfide (A4)						Piedn	nont Floodplain Soils (F19) (LRR P, S
5 cm Mucky Mineral (A7) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depleted Dark Surface (F7) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) (LRR T, U) Very Shallow Dark Surface (TF12) (LRR T, U) Very Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Incom-Manganese Masses (F12) (LRR O, P, T) Junicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 151) Unicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No Hydric Soil Present? Yes								Anom Anom	nalous Bright Loamy Soils (F20)
Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Redox Depressions (F8) Wery Shallow Dark Surface (TF12) (LRR T, D) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F13) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No								(ML	.RA 153B)
1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Marl (F10) (LRR U) Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Umbric Surface (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. No Hydric Soil Present? Yes No 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) Strictive Layer (if observed): Type: Depleted Ochric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Jelta Ochric (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No						(F8)		Processed	
Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Iron-Manganese Masses (F12) (LRR O, P, T) Iron-Manganese Masses (F12) (LR O, P, T) Iron								Other	(Explain in Remarks)
Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Dematy Coast Prairie Redox (A16) (MLRA 150A) Delta Ochric (F13) (LRR P, T, U) Wetland hydrology must be present, unless disturbed or problematic. Wetland hydrology must be present, unless disturbed or problematic. Wetland hydrology must be present, unless disturbed or problematic. Wetland hydrology must be present, unless disturbed or problematic. Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No			ce (A11)						
Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Delta Ochric (F17) (MLRA 151) Unless disturbed or problematic. When the problematic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Hydric Soil Present? Yes No								, T) ³ Indi	icators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No							, U)	we	etland hydrology must be present,
Sandy Redox (S5)			LRR O, S)	Delta Oct	nric (F17) (F	MLRA 151)		un	less disturbed or problematic.
Stripped Matrix (S6)Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	Sandy	Gleyed Matrix (S4)		Reduced	Vertic (F18	(MLRA 1	50A, 150B)	
Dark Surface (S7) (LRR P, S, T, U) strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	[Sandy I	Redox (S5)		Piedmont	Floodplain	Soils (F19)	(MLRA 1	49A)	
Strictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	Stripped	d Matrix (S6)		Anomalou	us Bright Lo	amy Soils (F20) (ML	RA 149A, 1530	C, 153D)
Type:	Dark Su	urface (S7) (LRR P,	S, T, U)						
Depth (inches): Hydric Soil Present? Yes X No	strictive	Layer (if observed)	1						
Depth (inches): Hydric Soil Present? Yes X No	Type:								
								Hydric Soi	Present? Yes X No
	Depth (in	iches):						1	
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	Depth (in	iches):							
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		iches):							

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmis	sion Line City	County: McDuffie Cour	nty	Sampling Date: 4/19/2011
Applicant/Owner: Georgia Power Compa	any		State: GA	Sampling Point: DP4 (W-2)
1 A) A (O 1 A A D 1	Sec			
Landform (hillslope, terrace, etc.):				
Subregion (LRR or MLRA): LRR P				
Soil Map Unit Name:				cation:
Are climatic / hydrologic conditions on the site				
Are Vegetation 💹, Soil 🔲, or Hydrol	logy significantly distu	urbed? Are "Normal	Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydro	logy naturally problem	matic? (If needed, e.	xplain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sa	mpling point locatio	ns, transects	, important features, etc
Hydric Soil Present? Ye	s No No x	Is the Sampled Area within a Wetland?	Yes	□ No ⊠
HYDROLOGY Westland Hydrology Indicators:			Secondary Indica	store (minimum of hus required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required)	ed: check all that anniv)		Surface Soil	Cracks (PS)
Surface Water (A1)	Water-Stained Leav	(AS (BO)	President of the Party of the P	getated Concave Surface (B8)
High Water Table (A2)	Aquatic Fauna (B13		Drainage Par	
Saturation (A3)	Marl Deposits (B15)		Moss Trim Li	
Water Marks (B1)	Hydrogen Sulfide O			Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizosphe	eres on Living Roots (C3)	Crayfish Burr	
Drift Deposits (B3)	Presence of Reduce			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		ion in Tilled Soils (C6)		Position (D2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7	Thin Muck Surface (Other (Explain in Re		Shallow Aqui	
Field Observations:	Other (Explain in Re	illarks)	- FAC-Neutral	Test (U5)
	No Depth (inches):			
	No Depth (inches):			
	No Depth (inches):	Wetland H	ydrology Presen	t? Yes No X
(includes capillary fringe)				100 110
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pr	evious inspections), if avail	lable:	
Remarks:				
No hydrologic indicators found.				
2.5				
1				

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٦	/ ham	<u> </u>			O I V		030	SCICITUIC	Harrics	01	piditto.

	Absolute	Dominant	Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size:) 1		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)		
2. 3.				Total Number of Dominant Species Across All Strata: 5 (B)		
		[]		Percent of Dominant Species That Are OBL, FACW, or FAC: 60% (A/		
. <u> </u>						
				Prevalence Index worksheet:		
		= Total Cov	ver .	Total % Cover of:Multiply by:		
apling Stratum (Plot size:) Liquidambar styraciflua	7	তো	FAC	OBL species x 1 =		
Quercus laevis	— ′		N/A	FACW species x 2 =		
· 		一片	14//	FAC species x 3 =		
				FACU species x 4 =		
·				UPL species x 5 =		
-				Column Totals: (A) (E		
		ㅡ님		Prevalence Index = B/A =		
	10			Hydrophytic Vegetation Indicators:		
hrub Stratum(Plot size:)	10=	Total Cov	er	➤ Dominance Test is >50%		
Baccharis halimifolia	5	×	FAC	Prevalence Index is ≤3.0¹		
		-		Problematic Hydrophytic Vegetation ¹ (Explain)		
				¹ Indicators of hydric soil and wetland hydrology must		
				be present, unless disturbed or problematic.		
•				Definitions of Vegetation Strata:		
		一市		Definitions of Vegetation Strata.		
	5 =	Total Cov		Tree – Woody plants, excluding woody vines,		
lerb Stratum (Plot size:)	= Total Cover			approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).		
Schizachyrium scoparium	30 ⋉ FACU					
Gnapthalium obtusifolium	10		N/A	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less		
Solidago sp.	10		N/A	than 3 in. (7.6 cm) DBH.		
Eupatorium capillifolium	20	×	FACU	Shrub – Woody plants, excluding woody vines,		
Rubus sp.	15		N/A	approximately 3 to 20 ft (1 to 6 m) in height.		
				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood		
				plants, except woody vines, less than approximately		
				3 ft (1 m) in height.		
0.				Woody vine - All woody vines, regardless of height.		
1						
2.						
	OF	Total Cov				
Voody Vine Stratum (Plot size:)		TOTAL COV	-1			
Smilax rotundifolia	5	×	FAC			
				4		
				Hydrophytic		
		Total Cov		Hydrophytic Vegetation Present? Yes No		

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Samp	lina	Daint	DP4	
Samo	lina	HOIDI		

5.5-15	Matrix Color (moist) 2.5Y4/3 2.5Y6/4	100	Color (moist)	x Features		Loc ²	S. Loam Sand	Remar Sandy Loam	ks
5.5-15								Sandy Loam	
¹Type: C=Coi	2.5Y6/4	100					Sand		
¹Type: C=Coi	2.010,1								
Hydric Soil In	ncentration, D=Dep	oletion, RM=Re	educed Matrix, CS	S=Covered	d or Coate	d Sand Gi	rains. ² Lo	ocation: PL=Pore Linin	ng, M=Matrix.
	idicators:							for Problematic Hyd	
Histosol (A1)		Polyvalue Be	elow Surfac	ce (S8) (L	RR S, T, L	J) 1 cm /	Muck (A9) (LRR O)	
	pedon (A2)		Thin Dark Su	ırface (S9)	(LRR S,	T, U)		Muck (A10) (LRR S)	
Black His	tic (A3)		Loamy Muck	y Mineral ((F1) (LRR	0)		ced Vertic (F18) (outsi	de MLRA 150A,E
Hydrogen	Sulfide (A4)		Loamy Gleye	ed Matrix (F2)			nont Floodplain Soils (F	
	Layers (A5)		Depleted Ma					alous Bright Loamy So	
Organic E	Rodies (A6) (LRR P	, T, U)	Redox Dark	Surface (F	6)			RA 153B)	,/
- T	ky Mineral (A7) (LI		Depleted Da					Parent Material (TF2)	
Muck Pre	sence (A8) (LRR L	J)	Redox Depre					Shallow Dark Surface (TF12) (LRR T, U)
1 cm Muc	k (A9) (LRR P, T)		Marl (F10) (L	RR U)				(Explain in Remarks)	
Depleted	Below Dark Surfac	e (A11)	Depleted Oc	hric (F11)	(MLRA 15	51)			
Thick Dar	k Surface (A12)		Iron-Mangan	ese Masse	es (F12) (I	LRR O, P,	T) ³ India	cators of hydrophytic v	egetation and
Coast Pra	irie Redox (A16) (I	MLRA 150A)	Umbric Surfa	ace (F13) (LRR P, T,	, U)		tland hydrology must b	
Sandy Mu	icky Mineral (S1) (I	LRR O, S)	Delta Ochric					less disturbed or proble	ematic.
Sandy Gle	eyed Matrix (S4)		Reduced Ver	rtic (F18) (I	MLRA 15	0A, 150B)) [] [
] Sandy Re	dox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	19A)		
Stripped N	Matrix (S6)		Anomalous E	Bright Loan	ny Soils (F	20) (MLR	RA 149A, 153 C	C, 153D)	
Dark Surfa	ace (S7) (LRR P, S	S, T, U)							
Restrictive La	yer (if observed):	: 1							
Туре:									
Depth (inch	es):						Hydric Soil	Present? Yes	□ No 区
Temarke:									
	l indicators pres	sent.							
o hydric soi									
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Open Water Feature Datasheet

Feature No.: OW-2	Map No.: 2a	Feature ID.: 010w010	Type: Impoundment		
Date Surveyed: 4/19/2011 County: McDuffie		Watershed: Brier			
8-Digit HUC1: 03060108		12-Digit HUC: 03060108	80102		

Acreage: 0.003

Comments: Beaver Impoundment



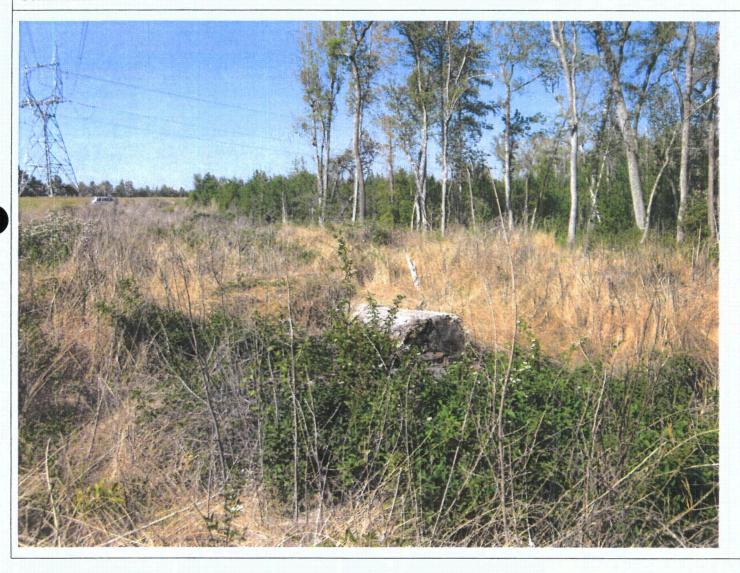
¹ HUC – U.S. Geological Survey Hydrologic Unit Code

Wetland Feature Datasheet

Feature No.: W-3	Map No.: 2a	Feature ID.: 01wet030	Type: Forested & Emergent			
Date Surveyed: 4/19/2011 & 4/20/2011	County: McDuffie	Watershed: Brier				
8-Digit HUC1: 03060108		12-Digit HUC: 030601080102				
Total Acreage: 3.14		Forested Acreage: 1.18	Forested Acreage: 1.18			

Dominant Vegetation: Magnolia virginiana, Leerzia oryzoides, Arundinaria gigantea, Andropogon virginicus

Comments:



¹ HUC – U.S. Geological Survey Hydrologic Unit Code

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmission	on Line City	//County: McDuffie Cou	nty	Sampling Date: 4/19/2011
Applicant/Owner: Georgia Power Company	y		State: GA	Sampling Point: DP5 (W-3)
ANA/O LAADII		ction, Township, Range:		
Landform (hillslope, terrace, etc.): Subregion (LRR or MLRA): LRR P	Loc	cal relief (concave, convex,	none):	Slope (%):
Soil Map Unit Name:			NWI classif	fication:
Are climatic / hydrologic conditions on the site tylenger than the s	significantly dist	turbed? Are "Normal matic? (If needed, e	Circumstances	present? Yes No No vers in Remarks.)
Hydrophytic Vegetation Present? Hydric Soil Present? Yes Wetland Hydrology Present? Yes	X No D	Is the Sampled Area within a Wetland?		× No
HYDROLOGY Wetland Hydrology Indicators:			Secondary India	cators (minimum of two required)
Primary Indicators (minimum of one is required Surface Water (A1) High Water Table (A2)	; check all that apply) Water-Stained Lea Aquatic Fauna (B1)	, ,	Surface So Sparsely Ve	cators (minimum of two required) il Cracks (B6) egetated Concave Surface (B8) atterns (B10)
Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Marl Deposits (B15 Hydrogen Sulfide C Oxidized Rhizosph		Moss Trim	Lines (B16) n Water Table (C2)
Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Presence of Reduc	ced Iron (C4) tion in Tilled Soils (C6)	Saturation '	Visible on Aerial Imagery (C9) c Position (D2)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in R	Remarks)	X FAC-Neutra	al Test (D5)
Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)		3	lydrology Prese	ent? Yes 🗵 No 🔲
Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, p	previous inspections), if ava	ilable:	
Remarks:				
Weter table was present at 13 inches by	ut was expected to sta	biliza at 11 inchas		
Water table was present at 13 inches, but	at was expected to sta	ibilize at 11 inches.		

١	/EGETA	TION -	Use	scientific	names	of	plants.

<u>Tree Stratum</u> (Plot size:) 1)	% Cover	Dominant Species?		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		믈		Total Number of Dominant Species Across All Strata: 4 (B)
4 5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
7. 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Prevalence Index worksheet:
		= Total Cov	/er	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)				OBL species x 1 =
Magnolia virginiana	5	- Emmed	FACW	FACW species x 2 =
2				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5		ㅡ븜		Column Totals: (A) (B)
3		<u> </u>		Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
Charle Chartens (Diet size:	5	= Total Cov	er	Dominance Test is >50%
Shrub Stratum (Plot size:) Rubus sp.	30		N/A	Prevalence Index is ≤3.0¹
				Problematic Hydrophytic Vegetation ¹ (Explain)
2.		一片		
3.		一市		¹ Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:
5.		F		Definitions of Vegetation Strata.
7	30	Total Cau		Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)		= Total Cov	er	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
Leersia oryzoides	10	×	OBL	
Andropogon virginicus	15	×	FAC	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
Arundinaria gigantea	10	×	FACW	than 3 in. (7.6 cm) DBH.
Osmunda cinnamomea	5		FACW	Shark Mark alasta and discount discount
Erechtites hieracifolia	_ 2		FAC	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.
5.				
				Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes woody
3.				plants, except woody vines, less than approximately
). The End of End of End				3 ft (1 m) in height.
10.				Woody vine – All woody vines, regardless of height.
11: 5: 2 5 5 5 4 5				
2.				
	42	= Total Cove		
Noody Vine Stratum (Plot size:)		10101 0011	J1	
3. <u></u>				
5.				Hydrophytic Vegetation
		= Total Cove	er	Present? Yes X No D
Demarks: (If observed, list marphological adaptotions	nelow)			
terrares or coserved list mornopholical agaptations f	JEIUW).		1 . 4'	Con Assessment
pecies given a "N/A" indicator status were n	ot included	in the cal	culations	s for dominance.
Remarks: (If observed, list morphological adaptations to pecies given a "N/A" indicator status were n	ot included	in the cal	culations	s for dominance.

-	u	 100

-2 10YR2/1 100 S. Loam W. organic material -6 10YR2/1 100 Sand -10 10YR4/1 95 7.5YR4/4 5 C PL Sand -10 10YR4/1 95 7.5YR4/4 10 C PL Sand -10 7.5YR4/2 90 7.5R4/4 10 C PL Sand Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Sand Grains. Thin Dark Surface (S9) (LRR S, T, U) To cm Muck (A9) (LRR D,) To cm Muck (A9) (LRR D,) To cm Muck (A9) (LRR D,) To	10 10 10 10 10 10 10 10	10 10 10 10 10 10 10 10	10YR2/1 100 S. Loam W. organic material 10YR2/1 100 Sand 10YR4/1 95 7.5YR4/4 5 C PL Sand 10YR4/1 95 7.5YR4/4 10 C PL Sand 10YR4/1 95 7.5YR	HILLIES)	Color (moist)	%	Color (moist)	edox Featu %	res Type ¹	Loc ²	Texture	Remarks
Sand 10 10YR2/1 100 10YR4/1 95 7.5YR4/4 5 C PL Sand 0+ 7.5YR4/2 90 7.5R4/4 10 C PL Sand 10 Cation: PL=Pore Lining, M=Matrix. 10 Coation: PL=Pore Lining, M=Matrix. 10 C PL Sand 10 C PL Sand 10 Coation: PL=Pore Lining, M=Matrix. 10 Coation: PLepoted Lines. 10 Coation: PLepoted Lines. 10 Coation: PLepoted Lines. 10 Coation: PLepoted Lines. 10	Sand	Sand 10YR2/1 100 10YR4/1 95 7.5YR4/4 5 C PL Sand S	Sand 10YR2/1 100 10YR4/1 95 7.5YR4/4 5 C PL Sand S	0-2			COIOI (IIIOISI)			LUC		
10 10YR4/1 95 7.5YR4/4 5 C PL Sand 0+ 7.5YR4/2 90 7.5R4/4 10 C PL Sand Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Yedric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR U) 1 cm Muck (A9) (LRR P, T, U) Depleted Matrix (F2) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 150B) Piedmont Floodplain Soils (F19) (MLRA 150B) Piedmont Floodplain Soils (F19) (MLRA 149A)	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains: Total Cattors T	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Thoulds (A1) Thin Dark Surface (S3) (LRR S, T, U) To champassed Matrix (F1) (LRR O, P, T) Thin Dark Surface (A1) Thin Dark Surface (S7) (LRR P, T, U) Depleted Dark Surface (F1) Loamy Mucky Mineral (S1) (LRR O, P, T) Marl (F1) (LRR U, LRR U) Depleted Dark Surface (F1) Marl (F1) (MLRA 151) Thin Dark Surface (A1) Thin Dark Surface (A1) Thin Dark Surface (A1) Thin Dark Surface (A1) Thin Dark Surface (A2) Thin Dark Surface (10 10YR4/1 95 7.5YR4/4 5 C PL Sand Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: Sandy Grain Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Tope Sandy Grain Sand Grains. Thick Dark Surface (R3) (LRR O, T) Type: Depleted Matrix (F3) Type: Depth (inches):					-1				
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Varic Soil Indicators:	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Varic Soil Indicators:	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Cacation: PL=Pore Lining, M=Matrix.	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Cacation: PL=Pore Lining, M=Matrix.				7.5YR4/4		_ C	PL		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Coation: PL=Pore Lining, M=Matrix.	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Varic Soil Indicators:	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Varic Soil Indicators:	Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Varic Soil Indicators:									
Adric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Medox (S5) Polyvalue Below Surface (S8) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U) Thin Dark Surface (A10) Thin Dark Surface (A10) Thin Dark Surface (A11) Thin Dark Surface (A12) Thin Dark Surface (F6) Thin Dark Surface (F6) Thin Dark Surface (F6) Thin Dark Surface (F18) (LRR O, P, T) Thin Dark Surface (A12) Thin Dark Surface (F6) Thin Dark Surface (F6) Thin Dark Surface (F18) (MLRA 151) Thin Dark Surface (F18) (MLRA 151) Thin Dark Surface (F19) (MLRA 151) Thin Dark Surface (F19) (MLRA 150A, 150B) Thin Dark Surface (F19) (M	Veric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratiffed Layers (A5) Organic Bodies (A6) (LRR P, T, U) 1 cm Muck (A9) (LRR P, T, U) Depleted Matrix (F3) Marl (F10) (LRR U) 1 cm Muck (A9) (LRR P, T, U) Depleted Below Dark Surface (S9) (LRR S, T, U) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (F6) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, T, U) Dark Surface (S7) (LRR P, T, U) Depleted Dark Surface (F13) (LRR P, T, U) Depleted Dark Surface (F13) (LRR P, T, U) Depleted Ochric (F17) (MLRA 151) Reduced Vertic (F18) (outside MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A) Reduced Vertic (F18) (outside MLRA 150A Piedmont Floodplain Soils (F19) (LRR P, S, Anomalous Bright Loamy Soils (F20) (MLRA 153B) Reduced Vertic (F18) (MLRA 153B) Piedmont Floodplain Soils (F19) (MLRA 151) Reduced Vertic (F17) (MLRA 151) Intro-Manganese Masses (F12) (LRR O, P, T) Depleted Dark Surface (A12) Umbric Surface (F13) (LRR P, T, U) Depleted Ochric (F17) (MLRA 151) Reduced Vertic (F18) (MLRA 150A) Sandy Mucky Mineral (A1) (LRR O, S) Sandy Redox (S5) Dark Surface (S9) (LRR P, S, T, U) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D)	Vdric Soil Indicators: Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Doany Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Muck (A9) (LRR P, T, U) Depleted Dark Surface (S9) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (F7) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mecky Mineral (S1) (LRR O, S) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S7) (LRR P, S, T, U) Despleted Dark Surface (A19) Depleted Dark Surface (A19) Depleted Ochric (F17) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Despleted Dark Surface (S7) (LRR P, S, T, U) Depleted Ochric (F17) (MLRA 150A) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Destrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	Vdric Soil Indicators: Histosol (A1) Histosol (A2) Black Histic Epipedon (A2) Doany Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Marl (F10) (LRR U) Thick Dark Surface (A11) Thick Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Medox (S5) Sandy Redox (S5) Dark Surface (A16) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S8) (LRR S, T, U) Dark Coast Prairie Redox (A16) (MLRA 150A) Sandy Redox (S5) Sandy Redox (S5) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S8) (LRR S, T, U) Dark Surface (S9) (LRR S, T, U) Dark Surface (S9) (LRR S, T, U) Dark Surface (S9) (LRR S, T, U) Dark Surface (S7) (LRR P, S, T, U) Dark Surface (S9) (LRR P, T, U) Dark Surface (S9) (LRR P, T, U) Dark Surface (S7) (LRR P, T, U) Dark Surface (S7) (LRR	<u> </u>	7.011(4/2		7:01(1)1		_ -	- ' -		
Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Pestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Pestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Pestrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present? Yes No	ydric Soil Histoso Histic E Black H Hydrog Stratifie Organic 5 cm M Muck P 1 cm M Deplete Thick D Coast F	Indicators: In (A1) Epipedon (A2) Institute (A3) En Sulfide (A4) En Sulfide (A4) En Sulfide (A6) En Bodies (A6) (LRR Eucky Mineral (A7) (Fresence (A8) (LRR Euck (A9) (LRR P, Ted Below Dark Surface (A12) Erairie Redox (A16)	P, T, U) LRR P, T, U)) ace (A11) (MLRA 15	Polyvalue Thin Dark Loamy Mi Loamy Gl Pepleted Redox Da Depleted Redox Da Mari (F10 Depleted Iron-Mang Umbric Si	Below Sur Surface (Sucky Minera eyed Matrix Matrix (F3) ark Surface Dark Surface pressions () (LRR U) Ochric (F1' ganese Masurface (F13	face (S8) (S9) (LRR Sel (F1) (LR Sel (F2) (F6) (F8) (F8) (MLRA sees (F12) (LRR P,	LRR S, T, , T, U) R O) 151) (LRR O, F T, U)	Indicators U) 1 cm 2 cm 2 cm Piedro Anom (ML Red F Very S Other	For Problematic Hydric Soils ³ : Muck (A9) (LRR O) Muck (A10) (LRR S) Ced Vertic (F18) (outside MLRA 150A nont Floodplain Soils (F19) (LRR P, S, alous Bright Loamy Soils (F20) RA 153B) Parent Material (TF2) Shallow Dark Surface (TF12) (LRR T, (Explain in Remarks) cators of hydrophytic vegetation and tland hydrology must be present,

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmiss Applicant/Owner: Georgia Power Compar	ion Line	City/County: McE	Ouffie County	Sampling Date: 4/19/2011
Applicant/Owner: Georgia Power Compar	ıy		State: GA	Sampling Point: DP6 (W-3)
MANACO and MADUL			o, Range:	
_andform (hillslope, terrace, etc.):				
Subregion (LRR or MLRA): LRR P				
Soil Map Unit Name:				ssification:
Are climatic / hydrologic conditions on the site to				
Are Vegetation, Soil, or Hydrolo				
Are Vegetation $\underline{\hspace{1cm}}$, Soil $\underline{\hspace{1cm}}$, or Hydrolo	gy naturally pr	oblematic?	(If needed, explain any a	nswers in Remarks.)
SUMMARY OF FINDINGS - Attach	site map showing	g sampling po	int locations, trans	ects, important features, etc
	No X		npled Area /etland? Yes	No×
Remarks:				
Maintained right-of-way; upland point	for 01wot030			
viaintained right-or-way, upiand point	ior o rweloso			
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary I	ndicators (minimum of two required)
Primary Indicators (minimum of one is required	d; check all that apply)			Soil Cracks (B6)
Surface Water (A1)	☐ Water-Stained	Leaves (B9)		y Vegetated Concave Surface (B8)
High Water Table (A2)	Aquatic Fauna	(B13)		pe Patterns (B10)
Saturation (A3)	Marl Deposits	(B15) (LRR U)	☐ Moss T	rim Lines (B16)
Water Marks (B1)	Hydrogen Sulf	ide Odor (C1)	Dry-Sea	ason Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhize	ospheres on Living	Roots (C3) L Crayfish	Burrows (C8)
Drift Deposits (B3)		educed Iron (C4)		on Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	The same of the sa	eduction in Tilled S	` T	rphic Position (D2)
Iron Deposits (B5)	Thin Muck Sur	, ,	F-7	Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Field Observations:	U Other (Explain	in Remarks)	FAC-Ne	eutral Test (D5)
	Depth (inches	2).		
Water Table Present? Yes No	Frank			
	Depth (inches	s)	Wetland Hydrology Pr	resent? Yes No 🗵
(includes capillary fringe)	Deptil (inches	>)	Wetland Hydrology Fi	esent? res No
Describe Recorded Data (stream gauge, moni	toring well, aerial phot	os, previous inspec	tions), if available:	
Remarks:				
No wetland hydrology indicators prese	ont			
wetiand hydrology indicators prese	anc			
1000000000000000000000000000000000000				

	-	OF-	FAT	LICAL		11	scientific		-4	nlanta
١	<i>/</i> –		A	IIUN	_	use	scientific	names	OI	Dianis.

Tree Stratum (Plot size: _____)

Sapling Stratum (Plot size: _____)

Shrub Stratum (Plot size: _____)

1. Prunus serotina

2 Quercus nigra

3. Pinus taeda

1. Rubus sp.

Sampling Point: DP6 Absolute Dominant Indicator **Dominance Test worksheet:** % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species _____ x 1 = _____ X FACU FACW species _____ x 2 = ____ × FAC FAC species _____ x 3 = ____ FAC FACU species _____ x 4 = ____ UPL species _____ x 5 = ____ Column Totals: (A) (B) Prevalence Index = B/A = ___ **Hydrophytic Vegetation Indicators:** ➤ Dominance Test is >50% Prevalence Index is ≤3.01 Problematic Hydrophytic Vegetation¹ (Explain)

3				
4				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				be present, unless disturbed of problematic.
6				Definitions of Vegetation Strata:
7				Tree – Woody plants, excluding woody vines,
	20 =	Total Cover		approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size:) 1 Eupatorium capillifollium	35	×	FACU	(7.6 cm) or larger in diameter at breast height (DBH).
	5 5		FACU	Sapling – Woody plants, excluding woody vines,
2. Rumex acetosella	$-\frac{3}{7}$			approximately 20 ft (6 m) or more in height and less
Pytolacca americana		Beend	FACU	than 3 in. (7.6 cm) DBH.
4 Gnaphalium obtusifolium	20		N/A	Shrub - Woody plants, excluding woody vines,
5. Nuttalanthus canadensis			V/A	approximately 3 to 20 ft (1 to 6 m) in height.
_{6.} Solidago sp.	2		V/A	Herb – All herbaceous (non-woody) plants, including
7				herbaceous vines, regardless of size. Includes woody
8				plants, except woody vines, less than approximately 3 ft (1 m) in height.
9				3 it (1 iii) iii neight.
10				Woody vine – All woody vines, regardless of height.
11				
12.				
	79	Total Cover		
Woody Vine Stratum (Plot size:)				
1. Smilax bona-nox	5		FAC	
2. Smilax rotundifolia	7		FAC	
3. Vitis rotundifolia	7	×	FAC	
4.				
5.				Hydrophytic Vegetation
	19 _			Present? Yes X No D
	19 =	Total Cover		rieseitt: les HO

П

= Total Cover

____ = Total Cover

15

15

20

		DDG
Sampling	Point:	DEG

C	-	11
J	U	11

	Matrix		Redo	x Features						
Depth (inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	_Loc ²	Texture		Remarks	S
0-6	10YR4/2	100					L. Sand	Loamy S	and	
6-16	10YR5/6	100					L. Sand	Loamy S	and	
¹Type: C=C	oncentration, D=Dep	oletion RM=R	educed Matrix C	S=Covered	or Coate	ad Sand G	raine ² l	ocation: PL=	Pore Lining	M-Matrix
Hydric Soil		ortion, remi-re		0-COVERCO	or Coale	u oana o		s for Problem		
Histosol	(A1)		Polyvalue Be	elow Surfac	ce (S8) (L	.RR S. T. I		Muck (A9) (L		
	pipedon (A2)		Thin Dark S	urface (S9)	(LRR S,	T, U)		Muck (A10) (
general control of the control of th	istic (A3)		Loamy Muck	y Mineral (F1) (LRF					e MLRA 150A,E
	en Sulfide (A4)		Loamy Gley		F2)		Piedn	nont Floodpla	in Soils (F1	9) (LRR P, S, T
ALCOHOL:	d Layers (A5)		Depleted Ma					alous Bright I	Loamy Soils	s (F20)
	Bodies (A6) (LRR F		Redox Dark					.RA 153B)		
	ucky Mineral (A7) (L		Depleted Da					Parent Materia		F12) (LRR T, U)
	resence (A8) (LRR L uck (A9) (LRR P, T)	")	Redox Depr		>)			(Explain in R		F12) (LKK 1, U)
(Married Street, Stree	d Below Dark Surface	e (A11)	Depleted Oc		MLRA 1	51)	Other	(Explain in N	ciliains)	
	ark Surface (A12)		Iron-Mangar				T) ³ Indi	cators of hyd	rophytic ved	getation and
Contract Con	rairie Redox (A16) (I	MLRA 150A)	Umbric Surfa					etland hydrolo		
Sandy N	Mucky Mineral (S1) (LRR O, S)	Delta Ochric	(F17) (ML	RA 151)		un	less disturbed	d or problen	natic.
	Gleyed Matrix (S4)		Reduced Ve							
The state of the s	Redox (S5)		Piedmont Fl							
	Matrix (S6)		Anomalous I	Bright Loan	ny Soils (F20) (MLF	RA 149A, 1530	C, 153D)		
Dark Su	rface (S7) (LRR P, S									
		•								
Restrictive	Layer (if observed)									
Restrictive	Layer (if observed)		_				Undria Cai	I D	v [コ 区
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes[□ No⊠
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No 区
Restrictive Type: Depth (in	Layer (if observed)	:					Hydric Soi	I Present?	Yes[□ No ⊠
Restrictive Type: Depth (in	Layer (if observed)		_				Hydric Soi	I Present?	Yes	□ No <u>×</u>
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in	Layer (if observed)		_				Hydric Soi	I Present?	Yes	□ No 区
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive	Layer (if observed)						Hydric Soi	I Present?	Yes	No X
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	No X
Restrictive Type: Depth (in Remarke:	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in Remarke:	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in Remarke:	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in Remarke:	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in Remarke:	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in Remarke:	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in Remarke:	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠
Restrictive Type: Depth (in Remarke:	Layer (if observed)						Hydric Soi	I Present?	Yes	□ No ⊠

Open Water Feature Datasheet

Feature No.: OW-3	Map No.: 2a	Feature ID.: 010w020	Type: Impoundment
Date Surveyed: 4/20/2011	County: McDuffie	Watershed: Brier	
8-Digit HUC1: 03060108		12-Digit HUC: 03060108	80102

Acreage: 0.02

Comments: Manmade Impoundment



¹ HUC – U.S. Geological Survey Hydrologic Unit Code

Wetland Feature Datasheet

Feature No.: W-4	Map No.: 2a	Feature ID.: 01wet040	Type: Forested & Emergent			
Date Surveyed: 4/20/2011	County: McDuffie	Watershed: Brier				
8-Digit HUC1: 03060108		12-Digit HUC: 03060108	30102			
Total Acreage: 2.16		Forested Acreage: 0.97				

 $\textbf{Dominant Vegetation:}\ Liquidambar\ styraciflua, Prunus\ serotina, Viburnum\ nudum, Juncus\ effusus, Carex\ stipata$

Comments:



¹ HUC – U.S. Geological Survey Hydrologic Unit Code

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WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

-,		City	/County: WicDullie	County	Sampling Date: 4/20/2011
pplicant/Owner: Georgia Po	wer Company			State: GA	Sampling Date: 4/20/2011 Sampling Point: DP7 (W-4)
vestigator(s): MWO and M				nge:	
V 11 -		Loc	al relief (concave. co	onvex. none):	Slope (%):
					Datum:
oil Map Unit Name:					sification:
re climatic / hydrologic condition					
					s" present? Yes No
re Vegetation, Soil re Vegetation, Soil					
UMMARY OF FINDING	S – Attach site r	map showing sa	mpling point lo	ocations, transed	cts, important features, etc
Hydrophytic Vegetation Preser	nt? Yes	× No			
Hydric Soil Present?	Yes	No D	Is the Sampled		× No
Wetland Hydrology Present?	Yes	× No	within a Wetlan	d? Yes_	No
Remarks:					
/laintained right-of-way; (01wet04O				
V2201 00V					
YDROLOGY					
Wetland Hydrology Indicator		-111.05 -1 1. 3			licators (minimum of two required)
Primary Indicators (minimum o	of one is required; che	,	(50)		oil Cracks (B6)
Surface Water (A1)	늗	Water-Stained Leav	` '	land .	Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3)	f	Aquatic Fauna (B15			Patterns (B10)
Saturation (A3) Water Marks (B1)	F	Marl Deposits (B15 Hydrogen Sulfide C			n Lines (B16)
Sediment Deposits (B2)	×		eres on Living Roots		on Water Table (C2) Burrows (C8)
Drift Deposits (B3)	Ť	Presence of Reduc			Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	t		tion in Tilled Soils (C		nic Position (D2)
Iron Deposits (B5)	le l	Thin Muck Surface		The same of the sa	quitard (D3)
Inundation Visible on Aeria	al Imagery (B7)	Other (Explain in R			ral Test (D5)
Field Observations:					
Surface Water Present?	Yes D No D	Depth (inches):			
Water Table Present?	Yes X No C	Depth (inches): 11	1		
Saturation Present?		Depth (inches): 0		land Hydrology Pres	sent? Yes 🗵 No 🔲
(includes capillary fringe)					
Josepho Decorded Data (etra-	am gauge monitoring	well, aerial photos, p	revious inspections)	if available:	
Describe Recorded Data (stret	ani gauge, monitoring		revieue mopeetiene)	, ii di diidibio:	
Semarks:	am gauge, monitoring			, , , , , , , , , , , , , , , , , , , ,	

١	/FGFTA	TION -	Use	scientific	names	of	plants
١	LGLIP		USC	SCIEITIIIC	Hallies	OI	piants.

Sampling Point: DP7 Absolute Dominant Indicator | Dominance Test worksheet:

104 5	= Total Cove	FAC	Shrub – Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height. Woody vine – All woody vines, regardless of height. Hydrophytic Vegetation Present? Yes No
104 5		OBL N/A	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height.
104 5		OBL N/A	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height.
2 10 30 		OBL N/A	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height.
2 10 30 		OBL N/A	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height.
100 30		OBL N/A	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height.
2 10 30		OBL	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height.
2 10 30		OBL	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height.
2 10 30		OBL	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately 3 ft (1 m) in height.
2 10 30		OBL	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood plants, except woody vines, less than approximately
2 10 30		OBL	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood
2 10 30		OBL	approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, including
10		OBL	
2			
		E 4	
2		N/A	than 3 in. (7.6 cm) DBH.
30	×	OBL	Sapling – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less
30	×	FACW	
;	= Total Cove	er	approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).
— <u>7</u>			Tree – Woody plants, excluding woody vines,
	_ 닏		Definitions of Vegetation Strata:
			be present, unless disturbed or problematic.
			¹ Indicators of hydric soil and wetland hydrology must
	- Property		Problematic Hydrophytic Vegetation¹ (Explain)
7	×	FACW	Prevalence Index is ≤3.0¹
	= Total Cove	er	▼ Dominance Test is >50%
— <u></u>			Hydrophytic Vegetation Indicators:
			Prevalence Index = B/A =
	×	FACU	Column Totals: (A) (B
			UPL species x 5 =
			FACU species x 4 =
	×		FAC species x 3 =
		FAC	FACW species x 2 =
	- Total Cov	ei	OBL species x 1 =
	- Total Cau		Total % Cover of: Multiply by:
			Prevalence Index worksheet:
			That Are OBL, FACW, or FAC: 83% (A/I
			Percent of Dominant Species
			Species Across All Strata: 6 (B)
			Total Number of Dominant
			Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)
	5 7 26 7 30		= Total Cover 5

SOIL

Depth	Matrix			lox Featur	res			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		Remarks
-6.5	10YR3/1	95	5YR3/4	5	_ C	PL	S.Loam	Sandy Loam
5.5-9	10YR5/1	95	5YR3/4	5	С	PL	S.Loam	Sandy Loam
)+	10YR2/1	95	5YR3/4	5	C	PL	S.Loam	Sandy Loam/Organic Mix
Type: C=0 Ivdric Soi Histore Histore Black H Hydrog Stratifie Organi 5 cm M Muck F 1 cm M Deplete Thick E Coast I Sandy	Concentration, D=De	P, T, U) LRR P, T, U U) ce (A11)	Polyvalue E Thin Dark S Loamy Muc Loamy Gley Depleted M Redox Dark Depleted D Redox Dep Marl (F10) (Depleted O Iron-Manga Umbric Sur Delta Ochri Reduced Ve	Below Surface (Scky Minera yed Matrix (F3) a Surface ark Surface ressions (LRR U) chric (F11 nese Masface (F13) (Mertic (F18))	red or Coat face (S8) (face (S8) (face (S8) (face (F1) (LR (F2) (F6) ce (F7) (F8) (F8) (MLRA 1 full (MLRA 1 full (LR P, Tall (LR P, Tall (LR 151) full (MLRA 151)	ed Sand (LRR S, T, , T, U) R O) 151) (LRR O, I	Grains. 2L Indicator , U)	ocation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils³: Muck (A9) (LRR O) Muck (A10) (LRR S) Ided Vertic (F18) (outside MLRA 150A, mont Floodplain Soils (F19) (LRR P, S, malous Bright Loamy Soils (F20) LRA 153B) Parent Material (TF2) Shallow Dark Surface (TF12) (LRR T, Le r (Explain in Remarks) icators of hydrophytic vegetation and etland hydrology must be present, inless disturbed or problematic.
Strippe	Redox (S5) ed Matrix (S6)		Piedmont F Anomalous				149A) .RA 149A, 153	C, 153D)
Strippe Dark S estrictive Type: Depth (iii	ed Matrix (S6) surface (S7) (LRR P, Layer (if observed						.RA 149A, 153	C, 153D) il Present? Yes X No C
Strippe Dark S Restrictive Type:	ed Matrix (S6) surface (S7) (LRR P, Layer (if observed						.RA 149A, 153	

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

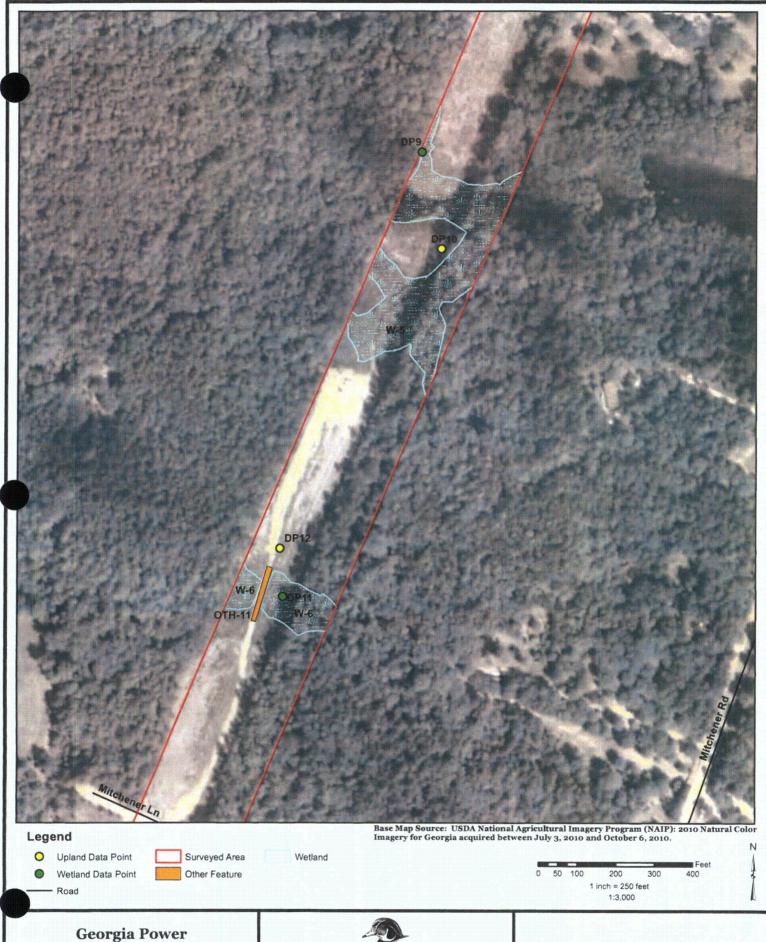
Project/Site: Thomson-Vogtle Transmission L	ine City/(County: McDuffie Co	ounty	Sampling Date: 4/20/2011
Project/Site: Thomson-Vogtle Transmission L Applicant/Owner: Georgia Power Company			State: GA	Sampling Point: DP8 (W-4)
	Secti			
Landform (hillslope, terrace, etc.):	Loca	relief (concave, conve	ex none).	Slope (%):
Subregion (LRR or MLRA): LRR P				
Soil Map Unit Name:				
Are climatic / hydrologic conditions on the site typical				
Are Vegetation, Soil, or Hydrology				
Are Vegetation $\underline{\hspace{1cm}}$, Soil $\underline{\hspace{1cm}}$, or Hydrology $\underline{\hspace{1cm}}$	naturally problem	atic? (If neede	d, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS - Attach site r	nap showing sar	npling point loca	tions, transec	ts, important features, etc
Understadie Verstellen Bressel	× No			
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No X	Is the Sampled Are		
Wetland Hydrology Present? Yes	No X	within a Wetland?	Yes	NoX
Remarks:		1		
1				
Maintained right-of-way; upland from 01we	t040			
HYDROLOGY				
Wetland Hydrology Indicators:				licators (minimum of two required)
Primary Indicators (minimum of one is required; chec	•			oil Cracks (B6)
Surface Water (A1)	Water-Stained Leave			Vegetated Concave Surface (B8)
High Water Table (A2)	Aquatic Fauna (B13)			Patterns (B10)
Saturation (A3)	Marl Deposits (B15)			Lines (B16)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfide Od	or (C1) res on Living Roots (C		on Water Table (C2)
Drift Deposits (B3)	Presence of Reduce		posses	Burrows (C8) Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		on in Tilled Soils (C6)		nic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (The same of the sa	quitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Re			ral Test (D5)
Field Observations:				
Surface Water Present? Yes No P	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No E			d Hydrology Pres	sent? Yes No 🗵
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, pre	evious inspections), if a	available:	
Remarks:				
Z-III-II-I				
No hydrologic indicators identified.				
no nyurologic mulcators identified.				

١	VEGE	ETAT	TION -	- Use	scientific	names o	of plants.

Herb Stratum (Plot size:)	Absolute Dominant Indicator Dominance Test worksheet:	
2	Trainber of Bernmark openies 2	
	That Are OBL, FACW, or FAC: 2	(A)
10		
Percent of Dominant Species 100% Factor 100% 1	opened / notes / in others.	(B)
That Are OBL. FACW, or FAC 100%	Percent of Dominant Species	
Prevalence Index worksheet:		(A/B
Total & Cover of:	Provisiones Index worksheet:	
Sapiling Stratum (Plot size:) 10		
1. Diospyros virginiana 10	= Total Cover	
2		
FACU species		
UPL species X 5 = Column Totals: (A) Prevalence Index = B/A = P		
Column Totals: (A) Prevalence Index = B/A =		
Prevalence Index = B/A =		
Trevalence index = B/A = Hydrophytic Vegetation Indicators: Hydrophytic Vegetation Indicators: Hydrophytic Vegetation Indicators: Mydrophytic Vegetat		(B)
Shrub Stratum (Plot size:	Prevalence Index = B/A =	
Shrub Stratum (Plot size:) Viburnum sp. 2	Hydrophytic Vegetation Indicators:	
Viburnum sp. 2	= Total Cover	
Problematic Hydrophytic Vegetation (Example 1) Problematic Hydrophytic Vegetation (Example 2) Problematic Hydrophytic Vegetation (Icx 3) Indicators of hydric soil and wetland hydrologoe be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height and papproximately 20 ft (6 m) or more in height and and in the papproximately 20 ft (6 m) or more in height and and in the papproximately 20 ft (6 m) or more in height and and in the papproximately 20 ft (6 m) or more		
3.		olain)
Indicators of hydric soil and wetland hydrologous be present, unless disturbed or problematic.	The state of the s	Jian'iy
be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height at (7.6 cm) or larger in diameter at breast height at than 3 in. (7.6 cm) or larger in diameter at breast height at than 3 in. (7.6 cm) or larger in diameter at breast height at than 3 in. (7.6 cm) or larger in diameter at breast height at than 3 in. (7.6 cm) or larger in diameter at breast height at than 3 in. (7.6 cm) or larger in diameter at breast height at than 3 in. (7.6 cm) or larger in diameter at breast height at than 3 in. (7.6 cm) or larger in diameter at breast height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height approximatel	The second section of the section of the second section of the section of the second section of the sect	w must
Definitions of Vegetation Strata: Tree - Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height at (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at (7.6 cm) or larger in diameter at breast height approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vine approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vine approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vine approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vine approximately 20 ft (6 m) or more in height at than 3 in. (7.6 cm) DBH. Shrub - Woody plants, excluding woody vine approximately 30 to 20 ft (1 to 6 m) in height. Woody vine - All woody vines, regardless of 10 to 6 m) in height. Woody vine - All woody vines, less than approx at 10 to 6 m	be present, unless disturbed or problematic.	y must
Tree – Woody plants, excluding woody vines approximately 20 ft (6 m) or more in height at the stratum (Plot size:) 1. Pytolacca americana		
Pytolacca americana S		
Herb Stratum (Plot size:) 1. Pytolacca americana	Tree – vvoody plants, excluding woody vines,	
1. Pytolacca americana 2. Nuttallanthus canadensis 3. Lolium arundinacea 4. Eupatorium capillifolium 5. Gnaphalium obtusifolium 6. Rubus sp. 7. 7. 8. 9. 10. 11. 12. 12. 13. Sapling – Woody plants, excluding woody vine stratum (Plot size:) 1. Smilax bona-nox 2	approximately 20 it (0 iii) of more in neight at	
2 Nuttallanthus canadensis 3 Lolium arundinacea 75		(DDII).
Lolium arundinacea 75 FAC Eupatorium capillifolium 20 FACU FACU Shrub — Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height.	ensis 5 N/A Sapling – Woody plants, excluding woody vir	
4. Eupatorium capillifolium 5. Gnaphalium obtusifolium 2. N/A 6. Rubus sp. 2. N/A 7. Shrub – Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, in herbaceous vines, regardless of size. Include plants, except woody vines, less than approx 3 ft (1 m) in height. 10. Shrub – Woody plants, excluding woody vine herbaceous vines, regardless of size. Include plants, except woody vines, less than approx 3 ft (1 m) in height. Woody Vine Stratum (Plot size: 2. Shrub – Woody plants, excluding woody vine approximately 3 to 20 ft (1 to 6 m) in height. Herb – All herbaceous (non-woody) plants, in herbaceous vines, regardless of size. Include plants, except woody vines, less than approx 3 ft (1 m) in height. Woody Vine – All woody vine – All woody vines, regardless of FAC 2. FAC 3. Hydrophytic Vegetation	approximately 20 it (0 iii) of more in neight at	a less
5. Gnaphalium obtusifolium 2	ium 20 \square FACU	
6. Rubus sp. 7	Shrub – vvoody plants, excluding woody vine	s,
7		
8	Herb – All herbaceous (non-woody) plants, in	
9	plants except woody vines less than approxi	
10	3 ft (1 m) in height.	,
11	Mondy vine All wendy vines regardless of	height
12		neight.
109		
Woody Vine Stratum (Plot size:)	100	
1. Smilax bona-nox 2	= 10tal 00vel	
2.	2	
3		
4 Hydrophytic 5 Vegetation		
5. Hydrophytic Vegetation		
5 Vegetation	Hydrophytic	
	Vegetation	1
Z = Total Cover Present? Yes X No L	2 = Total Cover Present? Yes No	ļ.
Remarks: (If observed, list morphological adaptations below). Species given a "N/A" indicator status were not included in the calculations for dominance.	norphological adaptations below).	

u	u	

Depth	Matrix			ox Features			the absence			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture		Remark	ks
0-4	10YR5/3	100					S. Loam	Sandy Lo	am	
4+	2.5YR5/3	100					S. Loam	Sandy Lo	am	
	-									
Type: C=0	Concentration, D=D	epletion, RM=F	Reduced Matrix, C	S=Covered	or Coated	d Sand Gr	rains. ² Lo	ocation: PL=	Pore Linin	g. M=Matrix.
	Indicators:		_				Indicators	for Problem		
Histoso	l (A1)		Polyvalue B	elow Surface	e (S8) (Ll	RR S, T, L	J) 🔲 1 cm l	Muck (A9) (L	RR O)	
	pipedon (A2)		Thin Dark S					Muck (A10) (I		
The state of the s	listic (A3)		Loamy Mucl			O)				de MLRA 150A
	en Sulfide (A4)		Loamy Gley		2)					19) (LRR P, S,
	ed Layers (A5) c Bodies (A6) (LRR	D T III	Depleted Ma		Α.			alous Bright I RA 153B)	_oamy So	ils (F20)
	ucky Mineral (A7) (Depleted Da					Parent Materia	al (TE2)	
	resence (A8) (LRR		Redox Depr							TF12) (LRR T,
	uck (A9) (LRR P, T		Marl (F10) (Designation of the last of the	(Explain in R		
The state of the s	ed Below Dark Surfa		Depleted Oc		VILRA 15	1)		(F		
	ark Surface (A12)		Iron-Mangar				T) ³ Indi	cators of hyd	rophytic ve	egetation and
	Prairie Redox (A16)		Umbric Surf			U)	we	tland hydrolo	gy must b	e present,
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					less disturbed	d or proble	ematic.
	Gleyed Matrix (S4)		Reduced Ve							
	Redox (S5)		Piedmont FI							
	d Matrix (S6) urface (S7) (LRR P,	C T III	Anomalous	Bright Loam	y Solls (F	20) (MLR	A 149A, 153C	, 153D)		
	Layer (if observed									
Restrictive										
	Layer (II observed									
Type:							Hydric Soi	I Present?	Yes	□ No E
			_				Hydric Soi	I Present?	Yes	□ No _ [
Type: Depth (in			_				Hydric Soil	I Present?	Yes	□ No □
Type: Depth (in							Hydric Soil	I Present?	Yes	□ No <u>□</u>
Type: Depth (in							Hydric Soil	I Present?	Yes	□ No <u>□</u>
Type: Depth (in			_				Hydric Soil	I Present?	Yes	□ No <u>□</u>
Type: Depth (in			_				Hydric Soi	I Present?	Yes	□ No <u></u>
Type: Depth (in							Hydric Soil	I Present?	Yes	□ No <u>E</u>
Type: Depth (in							Hydric Soil	I Present?	Yes	□ No <u>E</u>
Type: Depth (in							Hydric Soil	I Present?	Yes	□ No □
Type: Depth (in							Hydric Soil	I Present?	Yes	□ No □
Type: Depth (in							Hydric Soil	I Present?	Yes	□ No <u>□</u>
Type: Depth (in							Hydric Soil	I Present?	Yes	□ No □
Type: Depth (in Remarke:		not identifie	<u> </u>				Hydric Soil	I Present?	Yes	□ No □
Type: Depth (in Remarke:	nches):	not identified	<u> </u>				Hydric Soil	I Present?	Yes	□ No □
Type: Depth (in Remarke:	nches):	not identified	<u></u>				Hydric Soil	I Present?	Yes	□ No □
Type: Depth (in Remarke:	nches):	not identified	<u></u>				Hydric Soil	I Present?	Yes	□ No □
Type: Depth (in Remarke:	nches):	not identified	<u>-</u>				Hydric Soil	I Present?	Yes	No E
Type: Depth (in Remarke:	nches):	not identified	d.				Hydric Soil	I Present?	Yes	No E
Type: Depth (in Remarke:	nches):	not identified	<u> </u>				Hydric Soil	I Present?	Yes	No E
Type: Depth (in Remarke:	nches):	not identified	d.				Hydric Soil	I Present?	Yes	No E
Type: Depth (in Remarke:	nches):	not identified	<u> </u>				Hydric Soil	I Present?	Yes	No E
Type: Depth (in Remarke:	nches):	not identified	d.				Hydric Soil	I Present?	Yes	No E
Type: Depth (in Remarke:	nches):	not identified	d.				Hydric Soil	I Present?	Yes	No E



Georgia Power Thomson-Vogtle 500kV Transmission Line Mcduffie County, Georgia



Features Map 2b WEC Project No. 02-050508

Wetland Feature Datasheet

Feature No.: W-5	Map No.: 2b	Feature ID.: 01weto50 Type: Forested, Scrub-Shrub and Emergent			
Date Surveyed: 4/20/2011	County: McDuffie	Watershed: Brier			
8-Digit HUC1: 03060108		12-Digit HUC: 030601080102			
Total Acreage: 2.33		Forested Acreage: 1.14			

Dominant Vegetation: Acer rubrum, Liriodendron tulipifera, Liquidambar styraciflua, Ilex vomitoria, Arundinaria gigantea, Scirpus cyperinus, Gelsemium sempervirens

Comments:



¹ HUC – U.S. Geological Survey Hydrologic Unit Code

WETLAND DETERMINATION DATA FORM - Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmission Line Applicant/Owner: Georgia Power Company	City/County: Mc	Duffie County	Sampling Date: 4/20/2011
Applicant/Owner: Georgia Power Company		State: GA	Sampling Point: DP9 (W-5)
	Section, Townsh		
_andform (hillslope, terrace, etc.):	Local relief (cond	cave. convex. none):	Slope (%):
Subregion (LRR or MLRA): LRR P			
Soil Map Unit Name:			lassification:
Are climatic / hydrologic conditions on the site typical for t			
Are Vegetation, Soil, or Hydrology			
Are Vegetation \square , Soil \square , or Hydrology \square	naturally problematic?	(If needed, explain any	answers in Remarks.)
SUMMARY OF FINDINGS – Attach site maj	showing sampling po	oint locations, trans	sects, important features, et
Hydrophytic Vegetation Present? Yes	No ls the Sa		
Hydric Soil Present? Yes 🗵	No Tis the Sal	mpled Area	
Wetland Hydrology Present?	No within a \	Wetland? Yes	sNo
Remarks:			
Maintained right-of-way; 01wet05O			
Wallitailled HgHt-ol-way, 01welooo			
UVDBOLOGY			
HYDROLOGY Wetland Hydrology Indicators:		Secondan	Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check a	II that annly)		ce Soil Cracks (B6)
	ater-Stained Leaves (B9)	[mm]	ely Vegetated Concave Surface (B8)
	quatic Fauna (B13)	Personal Communication of the	age Patterns (B10)
	arl Deposits (B15) (LRR U)	Part	Trim Lines (B16)
	drogen Sulfide Odor (C1)		eason Water Table (C2)
Sediment Deposits (B2)	kidized Rhizospheres on Living	Roots (C3) 🔲 Crayfis	sh Burrows (C8)
Drift Deposits (B3)	esence of Reduced Iron (C4)	Satura	ation Visible on Aerial Imagery (C9)
Particular Communication Commu	ecent Iron Reduction in Tilled S	The second second	orphic Position (D2)
The state of the s	nin Muck Surface (C7)		w Aquitard (D3)
	her (Explain in Remarks)	¥ FAC-N	Neutral Test (D5)
Field Observations: Surface Water Present? Yes No No	looth (inches):		
	epth (inches): 2.5		
[V]		Wetland Underland	Present? Yes X No X
Saturation Present? Yes No L C (includes capillary fringe)	reput (inches).	welland hydrology i	Present? Yes No L
Describe Recorded Data (stream gauge, monitoring wel	l, aerial photos, previous inspe	ctions), if available:	
Remarks:			

V	E	GE.	ΓA	TIOI	V -	Use	scientific	names	of	plants.

Absolute Dominant Indicator Species? Status Dominant Species

Number of Dominant Species

That Are OBL. FACW, or FAC: 6 (A)

Tree Stratum (Plot size:)		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1				That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant Species Across All Strata: 6 (B)
4 5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/E
6				Description of Lader was delayed.
7				Prevalence Index worksheet:
		= Total Cov	ver	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)	2		EAC	OBL species x 1 =
1. Liquidambar styraciflua	$-\frac{2}{2}$		FAC	FACW species x 2 =
2. Liriodendron tulipifera	— Z	- American		FAC species x 3 =
Acer rubrum	_ <u> </u>		FAC	FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A) (B
3				Provolence Index = P/A =
7				Prevalence Index = B/A =
	9	= Total Cov	er	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size:)	E	-	E40	Dominance Test is >50%
1. Ilex vomitoria	5	- Innered	FAC	Prevalence Index is ≤3.0 ¹
2				Problematic Hydrophytic Vegetation ¹ (Explain)
3				
4				¹ Indicators of hydric soil and wetland hydrology must
5				be present, unless disturbed or problematic.
3				Definitions of Vegetation Strata:
7.				
	5	= Total Cov	er	Tree – Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
Herb Stratum (Plot size:) 1 Arundinaria gigantea	60	▽	FACW	(7.6 cm) or larger in diameter at breast height (DBH).
· ·	$-\frac{00}{20}$		OBL	Sapling – Woody plants, excluding woody vines,
Scirpus cyperinus	$-\frac{20}{15}$			approximately 20 ft (6 m) or more in height and less
Juncus effusus			FACW	than 3 in. (7.6 cm) DBH.
Rubus sp.	10		N/A	Shrub - Woody plants, excluding woody vines,
5				approximately 3 to 20 ft (1 to 6 m) in height.
S				Herb – All herbaceous (non-woody) plants, including
7.				herbaceous vines, regardless of size. Includes woody
3.				plants, except woody vines, less than approximately
9.				3 ft (1 m) in height.
0.				Woody vine – All woody vines, regardless of height.
1.				
2.				
2:	105	= Total Cov		
Noody Vine Stratum (Plot size:)		- Total Cov	Ci	
Gelsemium sempervirens	5	×	FAC	
3				
). 		一青		
		一片		Hydrophytic
				Vegetation
5	5	= Total Cov		Present? Yes X No D

-	-	
	\mathbf{a}	

Depth (inches) Color (moist) % Type¹ Loc² Texture Remarks 0-6 10 YR2/1 100 S. Loam Sandy Loam/organic muck 6-12 10 YR3/1 95 10 YR4/6 5 C PL S. Loam Sandy Loam/organic mix 12+ 10 YR3/1 80 10 YR6/1 15 D M Sand Two mottles w/ different color 10 YR4/6 5 C PL Sand
10YR3/1 95 10YR4/6 5 C PL S. Loam Sandy Loam/organic mix Two mottles w/ different color 10YR4/6 5 C PL Sand Two mottles w/ different color 10YR4/6 Sand Two mottles w/ different color 10
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depleted Indicators of Problematic Hydric Soils*: Indicators for Problematic Hydric Hydric Soils*: Indicators for
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix in CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix in CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix in CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depletion, RM=Reduced Matrix in CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depleted in Reduced Matrix in CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depleted in Reduced Matrix in CS=Covered or Coated Sand Grains. Type: C=Concentration, D=Depleted in Reduced Matrix in Matrix in Indicators for Problematic Hydric Soils ² : Indicators for Problematic Hydric Soils ³ : Indicators for Problematic Hydric Soil
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.
Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Muck Presence (A8) (LRR P, T) Depleted Dark Surface (F6) Marl (F10) (LRR U) Think Dark Surface (F11) (MLRA 151) 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 Redox (S5) Sandy Redox (S5) Dark Surface (S9) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U) Depleted Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Depleted Dark Surface (F6) Marl (F10) (LRR U) Depleted Deriv (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P, T) Deta Ochric (F13) (LRR O, P, T) Deta Ochric (F13) (LRR A 150A) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (if observed):
Type: Depth (inches): Hydric Soil Present? Yes No Remarke:

10.00				
D	rir	1	FO	rm
г	111	11	U	1111

WETLAND DETERMINATION DATA FORM – Atlantic and Gulf Coastal Plain Region

Project/Site: Thomson-Vogtle Transmissi Applicant/Owner: Georgia Power Compan	ion Line	City/County: McDuffie	County	Sampling Date: 4/20/2011
Applicant/Owner: Georgia Power Compan	ıy		State: GA	Sampling Point DP10 (W-5
_andform (hillslope, terrace, etc.):	:	ocal relief (concave, c	onvoy nono):	Slana (%):
Subregion (LRR or MLRA): LRR P				
Soil Map Unit Name:				sification:
Are climatic / hydrologic conditions on the site ty				
Are Vegetation 💹, Soil, or Hydrolog				
Are Vegetation, Soil, or Hydrolog	gy naturally pro	blematic? (If ne	eded, explain any ans	wers in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing	sampling point lo	ocations, transec	cts, important features, et
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	No ×	Is the Sampled		
Wetland Hydrology Present? Yes	No X	within a Wetlan	id? Yes _	NoX
Remarks:				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Inc	licators (minimum of two required)
Primary Indicators (minimum of one is required			Proceed	oil Cracks (B6)
Surface Water (A1)	Water-Stained L	, , ,	part of the same o	Vegetated Concave Surface (B8)
High Water Table (A2)	Aquatic Fauna (Patterns (B10)
Saturation (A3)	Marl Deposits (E			n Lines (B16)
Water Marks (B1) Sediment Deposits (B2)	Hydrogen Sulfid	pheres on Living Roots		on Water Table (C2) Burrows (C8)
Drift Deposits (B3)	Presence of Rec		Bussel	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	The state of the s	luction in Tilled Soils (C		nic Position (D2)
Iron Deposits (B5)	Thin Muck Surfa	ice (C7)	Shallow A	quitard (D3)
Inundation Visible on Aerial Imagery (B7)	U Other (Explain in	n Remarks)	☐ FAC-Neut	ral Test (D5)
Field Observations:	X			
	Depth (inches):			
	Depth (inches): Depth (inches):			sent? Yes No X
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	we	tland Hydrology Pres	sent? Yes No
Describe Recorded Data (stream gauge, monit	toring well, aerial photos	s, previous inspections)), if available:	
Remarks:				
No wetland hydrology indicators obser	ved.			

V	/EC	BE.	ГА	TION	_	Use	scientific	names	of	plants
а.	-	_		11011		000	SCICITION	Harrico	U.	piarito.

Tree Stratum (Plot size:) 1 Quercus shumardii	Absolute <u>% Cover</u> 10	Dominant Indicator Species? Status FACW	Dominance Test worksheet: Number of Dominant Species That Are OBL FACW or FAC: 3 (A)
Quercus alba	25	▼ FACU	
3			Total Number of Dominant Species Across All Strata: 7 (B)
i			Percent of Dominant Species
5.			That Are OBL, FACW, or FAC: 43% (A)
		一百一	Prevalence Index worksheet:
` <u></u>	35	= Total Cover	Total % Cover of: Multiply by:
Sapling Stratum (Plot size:)		- Total Cover	OBL species x 1 =
Sassafras albidum	15	▼ FACU	FACW species x 2 =
Carya pallida	10	□ N/A	FAC species x 3 =
Quercus falcata	3	FACU	FACU species x 4 =
Quercus alba	25	▼ FACU	UPL species x 5 =
Cornus florida	20	▼ FACU	
			Column Totals: (A) (I
ì.		H	Prevalence Index = B/A =
			Hydrophytic Vegetation Indicators:
	73 =	Total Cover	Dominance Test is >50%
Shrub Stratum (Plot size:)			
×			Prevalence Index is ≤3.0 ¹
<u> </u>			Problematic Hydrophytic Vegetation¹ (Explain)
· <u></u>			¹ Indicators of hydric soil and wetland hydrology mus
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
		一青	Deminions of Vegetation Strata.
7.			Tree – Woody plants, excluding woody vines,
Herb Stratum (Plot size:)	s	Total Cover	approximately 20 ft (6 m) or more in height and 3 in.
Dichanthelium commutatum	10	ĭ FAC	(7.6 cm) or larger in diameter at breast height (DBH)
Hexastylis arifolia		FAC	Sapling – Woody plants, excluding woody vines,
Tlexastylis arifolia			approximately 20 ft (6 m) or more in height and less
)			than 3 in. (7.6 cm) DBH.
, <u> </u>			Shrub – Woody plants, excluding woody vines,
			approximately 3 to 20 ft (1 to 6 m) in height.
			Mark All boshoosess (som svends) alasta isoladis-
			 Herb – All herbaceous (non-woody) plants, including herbaceous vines, regardless of size. Includes wood
		П	plants, except woody vines, less than approximately
		一百一	3 ft (1 m) in height.
·		— <u></u>	Woody vine – All woody vines, regardless of height.
0		<u>-</u>	Woody vine - All woody vines, regardless of neight.
1		닐	
2			
	12 =	Total Cover	
Voody Vine Stratum (Plot size:			
Vitis rotundifolia	15	▼ FAC	
6			
		一	Hydrophytic
·	15		Vegetation Present? Yes No
	10=	Total Cover	Present? Yes No X
Remarks: (If observed, list morphological adaptation Species given a "N/A" indicator status were degetation failed the dominance test (i.e.,	ons below). re not included	in the calculation	s for dominance.

SOIL

Depth	Matrix			Features	,			
(inches)	Color (moist)		Color (moist)		Loc ²	Texture	Rema	arks
)-1	2.5Y6/2	100				Sand		
1+	2.5Y6/4	100				Sand		
Type: C=C	oncentration, D=Dep	nletion RM=R	educed Matrix CS	=Covered or Co	ated Sand G	rains ² l ocatio	n: PL=Pore Lin	ing M=Matrix
Hydric Soil		piction, rein-re	caacca watna, oc	Covered or Co	atcu Garia G		Problematic Hy	
Histosol			Polyvalue Be	ow Surface (SS)	/I DD C T I			uno cono .
	1		Thin Dark Su	fees (SO) (I BB	(LKK 3, 1, 1			
	oipedon (A2)						(A10) (LRR S)	-: BBI DA 450A
	stic (A3)		general control of the control of th	Mineral (F1) (L	KK O)			side MLRA 150A
	en Sulfide (A4)		Loamy Gleye					(F19) (LRR P, S,
Stratified Layers (A5)			Depleted Mat			Anomalous Bright Loamy Soils (F20)		
	Bodies (A6) (LRR F		Redox Dark S			(MLRA 1		
5 cm Mucky Mineral (A7) (LRR P, T, U)			Depleted Dar			Red Parent Material (TF2)		
Muck Presence (A8) (LRR U)			Redox Depre			Very Shallow Dark Surface (TF12) (LRR T, L		
-	ick (A9) (LRR P, T)		Mari (F10) (L		4541	Uther (Exp	lain in Remarks))
	Below Dark Surface	ce (A11)		ric (F11) (MLRA		_ 1		
	ark Surface (A12)			ese Masses (F12			s of hydrophytic	
	rairie Redox (A16) (ce (F13) (LRR P			hydrology must	
NAME OF TAXABLE PARTY.	lucky Mineral (S1) (LRR O, S)		F17) (MLRA 15			disturbed or prob	olematic.
	Sleyed Matrix (S4)		and the same of th	ic (F18) (MLRA				
	ledox (S5)			odplain Soils (F1				
	Matrix (S6)		Anomalous B	right Loamy Soil	s (F20) (MLF	RA 149A, 153C, 153	BD)	
	rface (S7) (LRR P,							
	_aver (if observed)	:						
Restrictive I	,					1		
Restrictive I Type:			_					
			_			Hydric Soil Pres	sent? Yes	No
Type: Depth (inc						Hydric Soil Pres	sent? Yes	No
Type: Depth (inc						Hydric Soil Pres	sent? Yes	No
Type: Depth (inc						Hydric Soil Pres	sent? Yes	_L NoL
Type: Depth (inc			_			Hydric Soil Pres	sent? Yes	NoE
Type: Depth (inc						Hydric Soil Pres	sent? Yes	No
Type: Depth (inc						Hydric Soil Pres	sent? Yes	_U NoE
Type: Depth (inc						Hydric Soil Pres	sent? Yes	_U NoE
Type: Depth (inc						Hydric Soil Pres	sent? Yes	_L NoL
Type: Depth (inc						Hydric Soil Pres	sent? Yes	_U NoE
Type: Depth (inc						Hydric Soil Pres	sent? Yes	_L NoL
Type: Depth (inc						Hydric Soil Pres	sent? Yes	No
Type: Depth (inc						Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc						Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:		ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LU No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L
Type: Depth (inc Remarks:	ches):	ot identified				Hydric Soil Pres	sent? Yes	LL No L