

### Florida Power Corporation d/b/a Progress Energy Florida, Inc.

Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland 1	534	0.12	0.50	Redlevel fine sand	No	No	This is an isolated open water borrow pit with <i>Salix caroliniana</i> around the perimeter.
Wetland 2	641	2.86	0.60	Boca fine sand	No	No	This is a freshwater marsh in the maintained transmission line ROW. It is contiguous to Wetland 22 and appears to have been previously disturbed by excavation. The dominant species in this area are Salix caroliniana, Phyla nodiflora, Centella asiatica, and Typha latifolia.
	617	0.89	0.80	Boca fine sand	Yes	No	This is an area of mixed wetland hardwoods that grades into a wetland scrub community. Dominant species within the mixed wetland hardwood area include Quercus laurifolia and Salix caroliniana.
Wetland 3&24	631	2.78	0.60	Boca fine sand	Yes	No	This is a wetland scrub area within the maintained transmission line ROW that connects to an area of mixed wetland hardwoods. Salix caroliniana, Typha latifolia, and Polygonum sp. are the dominant species in the scrub wetland.
Wetland 4	641	0.01	0.67	Boca fine sand	No	No	This is a small, isolated freshwater marsh within the maintained transmission line ROW. Dichromena colorata and Muhlenbergia sp. are the dominant species in this area. Solidago canadensis, Panicum rigidulum, Eupatorium capillifolium, and Carex sp. are also present.



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Wetland ID	FLUCECS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland 5	641	0.03	0.67	Boca fine sand	No	No	This is a small, isolated freshwater marsh within the maintained transmission line ROW. Dichromena colorata and Centella asiatica are the dominant species in this wetland.
Wetland 6	641	0.42	0.67	Boca fine sand	No .	No	This is a small, isolated freshwater marsh within the maintained transmission line ROW, disturbed by mowing. It is dominated by <i>Cladium jamaicense</i> . <i>Dichromena colorata</i> and <i>Salix caroliniana</i> are also present.
Wetland 7	641	0.01	0.67	Boca fine sand	No	No	This is a small, isolated freshwater marsh in an area of upland forest. The wetland is dominated by Myrica cerifera and Sagittaria latifolia.
Wetland 8	617	0.30	0.80	Boca fine sand	No	No	This is an isolated area of mixed wetland hardwoods within an upland forest. The wetland is dominated by Fraxinus caroliniana, Myrica cerifera, and Dichromena colorata.
Wetland 9	641	0.22	0.67	Boca fine sand	No	No	This is an isolated freshwater marsh area within the maintained transmission line ROW. Dominant species in this area include Cladium jamaicense, Cephalanthus occidentalus, Andropogon glomeratus, Panicum rigidulum, and Dichromena colorata.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland 10	641	0.14	0.67	Boca fine sand	No ·	No	This is an isolated freshwater marsh in the maintained transmission line ROW that has been disturbed by mowing. Dominant vegetation includes Salix caroliniana, Cephalanthus occidentalus, Centella asiatica, and Andropogon glomeratus.
Wetland 11	617	0.24	0.80	Boca fine sand	No .	No	This is an isolated area of mixed wetland hardwoods within an area of upland forest. The wetland is dominated by Fraxinus caroliniana and Quercus laurifolia. Nyssa sylvatica is also present.
Wetland 12	617	0.14	0.80	Boca fine sand	No	No	This is an isolated area of mixed wetland hardwoods within an area of upland forest. The wetland is dominated by Nyssa sylvatica.  Fraxinus caroliniana and Quercus laurifolia are also present.
Wetland 13	641	0.64	0.67	Boca fine sand	No	No	This is an isolated freshwater marsh wetland located within the maintained transmission line ROW. Dominant species within this wetland include Carex sp., Salix caroliniana, Cladium jamaicense, and Dichromena colorata.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland 14	641	0.14	0.67	Boca fine sand	No	No	This is an isolated freshwater marsh wetland located within the maintained transmission line ROW. Dichromena colorata is the dominant species within this wetland. Other species present include Eustachys glauca, Ludwigia repens, and Centella asiatica.
Wetland 15	631	0.01	0.67	Boca fine sand	No .	No	This is a small, isolated wetland scrub area located within a forested upland. Salix caroliniana is the dominant species. Fraxinus caroliniana and Quercus laurifolia are also present.
Wetland 16	617	0.25	0.80	Boca fine sand	No	No	This is an isolated mixed hardwood wetland in an area of upland forest. The wetland is dominated by <i>Ilex cassine</i> and <i>Quercus laurifolia</i> . Tree trunks in this area have moss collars and show signs of buttressing.
Wetland 17	511	0.14	0.53	Boca fine sand	No	No	This is a north-south running ditch within the maintained transmission line ROW. Dichromena colorata, Carex spp., and Juncus megacephalus are the dominant species within the wetland.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland 18	617	0.26	0.80	Boca fine sand	No	No	This is an isolated mixed hardwood wetland in an area of upland forest. The wetland is dominated by Fraxinus caroliniana and Quercus laurifolia. Other species present include Myrica cerifera, Sabal palmetto, Pontedaria cordata, and Salix caroliniana.
	617	1.10	0.80	Boca fine sand	No	No	This is an isolated area of mixed wetland hardwoods that transitions into freshwater marsh within the maintained transmission line ROW. Dominant species within the forested wetland area include <i>llex cassine</i> and <i>Quercus laurifolia</i> .
Wetland 19	641	1.97	0.60	Boca fine sand	No	No	This is an isolated freshwater marsh located within the maintained transmission line ROW. The marsh connects to an area of mixed wetland hardwoods south of the maintained transmission line ROW. Within the marsh, <i>Erianthus</i> sp. and <i>Muhlenbergia capillaris</i> are dominant.
Wetland 20/21	511	2.35	0.53	Boca fine sand	No	No	This is a ditch along the north side of the North Access Road used for stormwater treatment. <i>Typha latifolia</i> is the dominant species within the ditch. Other species present include <i>Polygonum</i> sp., <i>Ludwigia</i> spp., and <i>Juncus</i> sp.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland 22	617	5.84	0.80	Boca fine sand	No	No .	This is an area of mixed wetland hardwoods adjacent to Wetland 2 that appears to be an old borrow pit. There are numerous berms, rock piles, and spoil piles located within the wetland. Salix caroliniana and Quercus laurifolia are the dominant species within the wetland.
Wetland 23	631	1.40	0.67	Broward fine sand	No	No	This is an isolated wetland scrub area that is located partially within the maintained transmission line ROW. Quercus laurifolia, Cephalanthus occidentalis, and Salix caroliniana are the dominant species.
Wetland X	643	0.43	0.60	Broward fine sand	No	No	This is an isolated wet prairie within the maintained transmission line ROW east of US 19. Andropogon glomeratus and Erianthus sp. are the dominant species.
Wetland Y	511	0.22	0.57	Boca fine sand	Yes	No	This is a ditch within the maintained transmission line ROW east of US 19 that is connected through a culvert to Wetland Z. The ditch is dominated by Andropogon glomeratus and Salix caroliniana. Other species present include Mikania scandens, Eupatorium capillifolium, and Centella asiatica.



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Wetland ID	FLUCFCS	Acreage	UMAM	Soil Type	Corps Jurisdictional	OFW	Wetland Description
	<b>Code</b> 511	0.20	<b>Score</b> 0.57	Boca and Redlevel fine	Yes	No	This is a ditch that is connected to
	311	0.20	0.57	sands	163	140	Wetland Y and runs from a culvert
-							under US 19 through a forested
		:					upland to a freshwater marsh.
							Species include Andropogon
							glomeratus, Salix caroliniana,
Wetland Z	,				,		Mikania scandens, Eupatorium
	C44	0.05	0.00	Dana and Dadlaval fina	V	NI.	capillifolium, and Centella asiatica.
	641	0.65	0.60	Boca and Redlevel fine sands	Yes	No	This is a freshwater marsh connected to a ditch. Dominant
				Sanus	,		species include <i>Erianthus</i> sp.,
							Andropogon glomeratus, and
							Solidago canadensis.
Wetland AA	511	0.32	0.53	Boca fine sand	Yes	No	This is a small ditch along Power
							Line Road. Dominant species within
							the ditch include <i>Erianthus</i> sp.,
							Andropogon glomeratus, Solidago
	511	4.39	0.53	Boca and Redlevel fine	Yes	No	canadensis, and Phyla nodiflora.  This is a long ditch along Power Line
	511	4.39	0.55	sands	res	INO	Road that connects to several areas
	*			341103			of wet prairie within the maintained
				•			transmission line ROW. Dominant
							species within the ditch include
							Fuirena pumila, Dichromena
Wetland AB							colorata, and Rhynchospora sp.
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	643	7.00	0.60	Boca and Redlevel fine	Yes	No	There are several wet prairie areas
				sands			of Wetland AB within the maintained transmission line ROW that are
							disturbed from mowing and show
					·		signs of drought stress. Species
		,					composition is similar to the
		,		·			connecting ditch.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland AJ	641	0.05	0.40	Quartzipsamments, 0 to 5 percent slopes	No	No	This is an isolated stormwater retention area that receives runoff from a parking area within the Crystal River Energy Complex. Vegetation within the wetland is dominated by Cladium jamaicense, which appears to have been sprayed with herbicides.
Wetland AK	631	0.47	0.40	Quartzipsamments, 0 to 5 percent slopes	No	No	This is an isolated shrub wetland within the Crystal River Energy Complex that was previously logged. Salix caroliniana is the dominant species within the wetland. Other species present include Mikania scandens and Ampelopsis arborea.
Wetland AL	631	0.53	0.40	Quartzipsamments, 0 to 5 percent slopes	No	No	This is an isolated shrub wetland within the Crystal River Energy Complex that was previously logged. Species composition is similar to Wetland AK.
Wetland AM	534	0.18	0.40	Quartzipsamments, 0 to 5 percent slopes	No	No	This is an isolated stormwater retention pond within the Crystal River Energy Complex. Species present in the wetland include Spilanthes sp., Cladium jamaicense, Sesbania sp., Diodia sp., Proserpinaca palustris, and Saururus cernuus.



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	617	17.87	0.80	Boca fine sand	Yes	No	This is a large mixed wetland hardwood forest west of the mariculture center, connected to a scrub wetland. Species present include Fraxinus sp., Acer rubrum, llex cassine, and Liquidambar styraciflua.
Wetland AN	631	15.32	0.60	Boca fine sand	Yes	No	This is a large scrub wetland west of the mariculture center, within the maintained transmission line ROW, and is connected to a mixed wetland hardwood forest. Baccharis halimifolia and Cladium jamaicense are the dominant species in this wetland.
Wetland AO	511	0.27	0.53	Boca fine sand	Yes	No	This is a ditch west of the mariculture center. Species present include Panicum repens, Eclipta alba, Setaria sp., Cyperus sp., and Typha latifolia.
Wetland AP	511	1.30	0.57	Boca fine sand	Yes	No	This is a ditch along the north side of Power Line Road that connects to a scrub wetland within the maintained transmission line ROW. Dominant species within the ditch include Cladium jamaicense, Solidago canadensis, and Andropogon glomeratus.



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Wetland ID	FLUCECS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
	631	13.77	0.60	Boca fine sand	Yes	No	This is a scrub wetland south of the mariculture center within the maintained transmission line ROW that connects to a ditch along Power Line Road. Species present within this area include <i>llex cassine, Acer rubrum, Salix caroliniana, Fraxinus</i> sp., and <i>Baccharis halimifolia</i> .
Mada ad A O	511	6.60	0.53	Boca and Redievel fine sands	Yes	No	This is a ditch along the south side of Power Line Road that extends from south of the mariculture center east to US 19. Species present within the ditch include Cladium jamaicense, Typha latifolia, and Erianthus sp.
Wetland AQ	617	2.50	0.80	Boca and Redlevel fine sands	Yes	No	This is a mixed wetland hardwoods forest connected to the ditch along the south side of Power Line Road. Dominant species include Acer rubrum, Myrica cerifera, Liquidambar styraciflua, and Salix caroliniana.
Wetland AR	631	0.47	0.60	Boca fine sand	No	No	This is a small scrub wetland south of the mariculture ponds and north of the maintained transmission line ROW. Dominant species include <i>llex cassine</i> , <i>Myrica cerifera</i> , <i>Fraxinus</i> sp. <i>Cladium jamaicense</i> , <i>Erianthus</i> sp., and <i>Flaveria</i> sp.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland AS	631	0.98	0.60	Boca fine sand	No	· No	This is a small scrub wetland south of the mariculture ponds and north of the maintained transmission line ROW. Dominant species include <i>llex cassine</i> , <i>Myrica cerifera</i> , <i>Fraxinus</i> sp. <i>Cladium jamaicense</i> , <i>Erianthus</i> sp., and <i>Flaveria</i> sp.
Wetland AT	630	22.94	0.80	Boca fine sand	Yes	No	This is a large contiguous forested wetland located north of the mariculture center and east, adjacent on both sides of the maintained transmission line ROW. Dominant species within the wetland include Liquidambar styraciflua, Carpinus caroliniana, Sabal palmetto, and Acer rubrum.
	641	29.83	0.67	Boca fine sand	Yes	No	This is a large, contiguous freshwater marsh within the maintained transmission line ROW. Dominant species within the wetland include Flaveria sp., Andropogon virginiana, A. glomeratus, Centella asiatica, and Erianthus sp.
Wetland AU	511	1.18	0.57	Boca fine sand	Yes	No	This is a ditch along the north side of Power Line Road that connects to several marsh areas within the maintained transmission line ROW. Species present within the ditch include Agalinis sp., Andropogon spp., and Erianthus sp.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
	641	9.50	0.60	Boca fine sand	Yes	No	There are several freshwater marshes along the north side of Power Line Road within the maintained transmission line ROW that connect to a roadside ditch. They are vegetated with a mixture of species including Agalinis sp., Andropogon spp., Erianthus sp., Hyptis alata, Ilex cassine, Muhlenbergia sp., and Solidago canadensis.
Wetland AV	631	0.10	0.60	Boca fine sand	No	No	This is a small, isolated scrub wetland within the maintained transmission line ROW. Salix caroliniana and Erianthus sp. are the dominant species in the wetland. Other species present include Andropogon glomeratus, Pluchea sp., and Cephalanthus occidentalus.
Wetland AW	617	0.58	0.80	Boca fine sand	No	No	This is an isolated mixed wetland hardwoods forest within an area of upland forest. Species present include Salix caroliniana, Acer rubrum, Liquidambar styraciflua, Sabal palmetto, and Quercus laurifolia.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland AX	641	0.44	0.60	Boca fine sand	No	No	This is a small, isolated freshwater marsh with the transmission line ROW. Species present within the wetland include Solidago canadensis, Erianthus sp., Eryngium sp., Lobelia sp., and Muhlenbergia sp.
Wetland AY	534	1.04	0.50	Boca fine sand	No	No	This is an isolated stormwater retention pond adjacent to the North Access Road. Dominant species within this area include <i>Juncus</i> sp., <i>Aster</i> sp., <i>Centella asiatica</i> , and <i>Typha latifolia</i> .
Wetland AZ	630	0.28	0.80	Boca fine sand	No	No	This is mixed wetland forest area west of the North Access Road that was disturbed during installation of a cell tower pad. Species present within the wetland include Liquidambar styraciflua, Quercus laurifolia, llex cassine, Fraxinus sp., and Pinus elliottii.
vveuand AZ	641	0.18	0.60	Boca fine sand	No	No	This is a freshwater marsh area west of the North Access Road that was disturbed during installation of a cell tower pad. Species present within this wetland include Dichromena colorata, Hydrocotyle umbellata, Centella asiatica, Andropogon glomeratus and Baccharis halimifolia.



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Wetland ID	FLUCFCS Gode	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland BA	511	0.03	0.53	Boca fine sand	No	No	This is a ditch through an upland forest area west of the cell tower site and the North Access Road. Hyptis alata and Eustachys glauca are the dominant species within the wetland. Lobelia sp., Erianthus sp., and Diospyros virginiana are also present.
Wetland BB	641	0.21	0.60	Boca fine sand	No	No	This is an isolated freshwater marsh within the maintained transmission line ROW that has been disturbed by mowing. Cladium jamaicense and Spilanthes sp. are the dominant species in the wetland. Other species present include Salix caroliniana, Diospyros virginiana, Hydrocotyle umbellata, and Erianthus sp.
Wetland BC	641	0.37	0.60	Boca fine sand	No	No	This is an isolated freshwater marsh within the maintained transmission line ROW that has been disturbed by mowing. Cyperus sp. and Muhlenbergia sp. are dominant within the wetland. Other species present include Diospyros virginiana, Fuirena sp., and Centella asiatica.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland BD	511	0.10	0.53	Boca fine sand	No	No	This is a small isolated ditch on the edge of the maintained transmission line ROW. The dominant species in the ditch include Salix caroliniana, Eupatorium capillifolium, Cyperus surinamensis, and Dichromena colorata.
Wetland BE	641	0.37	0.60	Boca fine sand	No	No	This is an isolated freshwater marsh within the maintained transmission line ROW that has been disturbed by mowing. Dominant species within the wetland include Cladium jamaicense, Eustachys sp., Salix caroliniana, and Diospyros virginiana.
Wetland BF	641	0.64	0.60	Boca fine sand	No	No	This is an isolated freshwater marsh within the maintained transmission line ROW that has been disturbed by mowing. Dominant species within the wetland include Cladium jamaicense, Eustachys sp., Salix caroliniana, and Diospyros virginiana.
Wetland BG	641	0.05	0.60	Boca fine sand	No	No	This is a small, isolated freshwater marsh within the maintained transmission line ROW that has been disturbed by mowing. Dominant species within the wetland include Cladium jamaicense, Eustachys sp., Salix caroliniana, and Diospyros virginiana.



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Wetland BH	511	0.22	0.53	Boca fine sand	No	No	This is a small isolated ditch on the edge of the maintained transmission line ROW. Cladium jamaicense is the dominant species within the ditch. Other species present include Fuirena sp., Andropogon glomeratus, and Hyptis alata.
Wetland CS K	643	6.89	0.73	Boca fine sand	No	No	This is a wet prairie wetland in the maintained transmission line ROW south of the proposed Citrus Substation. Dominant vegetation includes <i>Erianthus</i> sp., <i>Pluchea</i> sp., and <i>Eupatorium capillifolium</i> . <i>Salix caroliniana</i> , <i>Sabal palmetto</i> , and <i>Myrica cerifera</i> are also present.
Wetland CS L	643	0.03	0.60	Boca fine sand	No	No	This is a small, isolated, marginal wet prairie wetland in the maintained transmission line ROW south of the proposed Citrus Substation. Erianthus sp., Andropogon glomeratus, and Hyptis alata are the dominant species within this wetland. Other species present include Phyla nodiflora, Eupatorium capillifolium, and Mikania scandens.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland CS M	511	0.19	0.57	Boca fine sand	No	No	This is a ditch within the maintained transmission line ROW southwest of the proposed Citrus Substation. It contains a mixture of vegetation including Salix caroliniana, Mikania scandens, Hypericum sp., Muhlenbergia sp., Juncus megacephalus, and Polygonum spp.
Wetland CS S	643	0.32	0.60	Boca fine sand	No	No	This is a wet prairie wetland located southwest of the proposed Citrus Substation in an upland forest. The wetland shows signs of drought stress. Panicum hemitomon is the dominant species. Other species present in the wetland include Muhlenbergia sp., Pluchea odorata, and Phyla nodiflora.
Wetland CS T	511	0.19	0.53	Boca fine sand	No	No	This is a small, isolated depressional area/ditch around a transmission line structure within the maintained transmission line ROW southwest of the proposed Citrus Substation.  Andropogon glomeratus is the dominant species within the wetland. Other species present include Muhlenbergia sp., Phyla nodiflora, and Andropogon virginicus.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland CS U	534	0.19	0.50	Boca fine sand	No	No	This is a small, isolated, man-made pit/ditch around a transmission line structure within the maintained transmission line ROW southwest of the proposed Citrus Substation.  Andropogon glomeratus and A. virginicus are the dominant species in the wetland. Phyla nodiflora, Centella asiatica, and Diodia sp. are also present.
Wetland CS V	643	0.10	0.60	Boca fine sand	No	No	This is a small, marginal, isolated wet prairie within the maintained transmission line ROW southwest of the proposed Citrus Substation. Urochloa plantaginea is the dominant species within the wetland, followed by Andropogon glomeratus and Erianthus sp.
Wetland CS W	641	0.28	0.60	Tavares fine sand	No	No	This is an isolated depressional freshwater marsh area with marginal wetland soils in the maintained transmission line ROW south of the proposed Citrus Substation.  Solidago canadensis is the dominant species within the wetland. Other species present include Erianthus sp., Eleocharis sp., and Ambrosia sp.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
Wetland ZA	630	1.29	0.80	Boca fine sand	No	No	This is a forested wetland adjacent to the maintained transmission line ROW. The wetland is dominated by Liquidambar styraciflua, Carpinus caroliniana, Sabal palmetto, and Acer rubrum.
Wetland ZB	630	0.01	0.80	Boca fine sand	No	No	This is a forested wetland adjacent to the maintained transmission line ROW. The wetland is dominated by Liquidambar styraciflua, Carpinus caroliniana, Sabal palmetto, and Acer rubrum.
Wetland ZC	630	0.10	0.80	Boca fine sand	No	No	This is a forested wetland adjacent to the maintained transmission line ROW. The wetland is dominated by Liquidambar styraciflua, Carpinus caroliniana, Sabal palmetto, and Acer rubrum.
Wetland ZD	630	0.45	0.80	Boca fine sand	No	No	This is an isolated forested wetland adjacent to the maintained transmission line ROW. The wetland is dominated by Liquidambar styraciflua, Carpinus caroliniana, Sabal palmetto, and Acer rubrum.
Wetland ZDA	511	0.01	0.57	Boca fine sand	No	No	This is a ditch adjacent to the maintained transmission line ROW that connects to Wetland ZD.  Dominant vegetation in the wetland includes Cephalanthus occidentalis, Diospyros virginiana, Dichromena colorata, and Spilanthes sp.



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Wetland ID	FLUCFCS Code	Acreage	UMAM Score	Soil Type	Corps Jurisdictional	OFW	Wetland Description
	511	0.07	0.53	Boca fine sand	Yes	No	This is a ditch dominated by Salix caroliniana, Eupatorium capillifolium, Cyperus surinamensis, and Dichromena colorata
Wetland ZE	630	0.15	0.80	Boca fine sand	Yes	No	This is a forested wetland adjacent to the maintained transmission line ROW. The wetland is dominated by Liquidambar styraciflua, Carpinus caroliniana, Sabal palmetto, and Acer rubrum.
Wetland ZF	630	0.09	0.80	Boca fine sand	No	No	This is an isolated forested wetland adjacent to the maintained transmission line ROW. The wetland is dominated by <i>Liquidambar</i> styraciflua, Carpinus caroliniana, Sabal palmetto, and Acer rubrum.
Wetland ZG	630	0.11	0.80	Boca fine sand .	No	No	This is an isolated forested wetland adjacent to the maintained transmission line ROW. The wetland is dominated by <i>Liquidambar styraciflua</i> , <i>Carpinus caroliniana</i> , <i>Sabal palmetto</i> , and <i>Acer rubrum</i> .
Wetland ZH	630	0.08	0.80	Boca fine sand	No	No	This is an isolated forested wetland adjacent to the maintained transmission line ROW. The wetland is dominated by <i>Liquidambar styraciflua</i> , <i>Carpinus caroliniana</i> , <i>Sabal palmetto</i> , and <i>Acer rubrum</i> .



# Florida Power Corporation d/b/a Progress Energy Florida, Inc. Levy - Crystal River Energy Complex Transmission Line

# Protected Plants and Animals Potentially Occurring on the Transmission Line Right-of-Way Citrus County, Florida

		Likelihood of	Sta		
Species	Habitat of Occurrence	Occurrence on ROW	USFWS	FWC	Observed
	AMPHIBIANS		· · · · · · · · · · · · · · · · · · ·		
Rana capito Gopher frog	Sandhill and scrub with isolated wetlands or large ponds; commensal with gopher tortoises	Medium	N	SSC	No
	BIRDS				
Aramus guarauna Limpkin	Freshwater marshes, swamps, springs, spring runs, pond, river, and lake margins	Medium	N	SSC	No
Athene cunicularia floridana Florida burrowing owl	Dry prairie, sandhill, pastures	Low	N .	SSC	. No
Egretta caerulea Little blue heron	Freshwater lakes, marshes, swamps, and streams, cypress	High	N	SSC	No
Egretta thula Snowy egret	Wetlands, streams, lakes, and swamps, manmade impoundments, ditches	High	N	SSC	No
Egretta tricolor Tricolored heron	Wetlands, ditches, pond and lake edges, coastal areas	High	N	SSC	No
Eudocimus albus White ibis	Freshwater and brackish marshes, salt flats, forested wetlands, wet prairies, swales, man-made ditches	High	N	SSC	No
Falco sparverius paulus Southeastern American kestrel	Open pine habitats, woodland edges, prairies, pastures	Medium	N	Т	No
Grus canadensis pratensis Florida sandhill crane	Prairies, freshwater marshes, and pastures	High	N	Т	No
Haliaeetus leucocephalus Bald eagle	Coastal areas, bays, rivers, lakes, or other bodies of water	Medium	N	N	No
<i>Mycteria americana</i> Wood stork	Cypress strands and domes, mixed hardwood swamps, freshwater marshes	High	Е	E	Yes
<i>Platalea ajaja</i> Roseate spoonbill	Tidal flats, coastal and freshwater marshes	Medium	N	SSC	No
	MAMMALS				
Podomys floridanus Florida mouse	Xeric upland communities with sandy soils, including scrub, sandhill, and ruderal sites; commensal in gopher tortoise burrows	Medium	N .	SSC	No



### Florida Power Corporation d/b/a Progress Energy Florida, Inc. Levy - Crystal River Energy Complex Transmission Line

# Protected Plants and Animals Potentially Occurring on the Transmission Line Right-of-Way Citrus County, Florida

	一带"新兴"的"特别"。(1986年) 1987年 - 1	Likelihood of	St		
Species	Habitat of Occurrence	Occurrence on ROW	USFWS	FWC	Observed
Sciurus niger shermani Sherman's fox squirrel	Sandhills, pine flatwoods, pastures and other open, ruderal habitats with scattered pines and oaks	Low	. N	SSC	No
Sorex longirostris eionis Homosassa shrew	Moist areas, forested wetlands, riparian forests, fields, brushy areas, near Homosassa Springs area	Medium	N	SSC	Nọ
Ursus americanus floridanus Florida black bear	Large areas of forested uplands, forested wetlands	Low	N	Т	No
	REPTILES				
Alligator mississippiensis American alligator	Most permanent bodies of fresh water, including marshes, swamps, lakes, and rivers	High	T (SA)	SSC	Yes
<i>Drymarchon couperi</i> Eastern indigo snake	Broad range of habitats, from scrub and sandhill to wet prairies and mangrove swamps; often commensal with gopher tortoises	High	Т	T	Yes*
Gopherus polyphemus Gopher tortoise	Dry upland habitats, including sandhills, scrub, xeric oak hammock, and dry pine flatwoods; also pastures, old fields	High	N	Т	Yes
Stilosoma extenuatum Short-tailed snake	Sandhill, xeric hammock, sand pine scrub	Low	N	Т	No
Pituophis melanoleucus mugitus Florida pine snake	Sandhill, old fields and pastures, sand pine scrub, scrubby flatwoods; often commensal with gopher tortoises and pocket gophers	Medium	N	SSC	No
	PLANTS				100
Adiantum tenerum Brittle maidenhair fern	Limestone outcrops, grottoes, sinkholes	Medium	N ·	Ε	No
Asplenium pumilum Dwarf spleenwort	Pinelands	Low	N	E	No
Asplenium verecundum  Modest spleenwort	Rockland hammocks, limestone outcrops, grottoes, sinkholes	Medium	N	E	No
Blechnum occidentale Sinkhole fern	Moist woodlands, hammocks, rocky creek banks, woodlands with open shade	Medium	N	E	No
Centrosema arenicola Sand butterfly pea	Sandhill, scrubby flatwoods, dry upland woods	Medium	N	E	No ·



#### Florida Power Corporation d/b/a Progress Energy Florida, Inc. Levy - Crystal River Energy Complex Transmission Line

#### Protected Plants and Animals Potentially Occurring on the Transmission Line Right-of-Way Citrus County, Florida

		Likelihood of	Status		
Species	Habitat of Occurrence	Occurrence on ROW	USFWS	FWC	Observed
Cheilanthes microphylla Southern lip fern	Crevices of limestone outcrops and terrestrial on shell mounds in partial to full sun	Medium	N	E	No
Glandularia tampensis Tampa vervain	Live oak-cabbage palm hammocks and pine-palmetto flatwoods	Low	N	Е	No
Matelea floridana Florida spiny-pod	Pinelands, temperate forests	Medium	N	E	No
Monotropsis reynoldsiae Pygmy pipes	Upland mixed hardwood forest, mesic and xeric hammock, sand pine and oak scrub	High	N	E	No
<i>Nolina brittoniana</i> Britton's beargrass	Scrub, sandhill, scrubby flatwoods, and xeric hammock	Low	E	Ε	No
Pecluma ptilodon Swamp plume polypody	Rockland hammocks, strand swamps, wet woods	Medium	N	E	No
Pteroglossaspis ecristata Giant orchid	Sandhill, scrub, pine flatwoods, pine rocklands	Medium	N	Т	No
Spiranthes polyantha Green ladies'-tresses	Rock outcrops in mesic hammock, rockland hammock, maritime hammock	High	N	Е	No
Stylisma abdita Scrub stylisma	Pinelands, sandhills, scrub	Low	N	E	No
Thelypteris reptans Creeping maiden fern	Limestone grottoes and sinkholes	Low	N	E	No
Triphora craigheadii Craighead's nodding-caps	Mesic hardwood hammocks	Medium	N	Е	No

Notes:

N = Not Listed

T = Threatened

E = Endangered

SSC = Species of Special Concern

T(SA) = Threatened due to similarity in appearance to a federally listed species
\*Observation of potential Eastern indigo snake within ROW; positive identification was not confirmed

#### SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION AND THREATENED AND ENDANGERED SPECIES

#### PROGRESS ENERGY FLORIDA

#### LEVY to CRYSTAL RIVER ENERGY COMPLEX (LCR) TRANSMISSION LINE

LOCATED IN CITRUS COUNTY, FLORIDA

WETLANDS JURISDICTIONAL DELINEATION LINE WITHIN CORRIDOR

PROGRESS ENERGY FLORIDA PEF

AB-1, AQ 2, AT3, WL3-4, etc. = WETLAND FLAG DELINEATOR

DIFFERENTIAL GLOBAL POSITIONING SYSTEM DGPS

N. NORTHING (coordinate)

EASTING (coordinate) E.

= PROPERTY LINE

= GEOGRAPHIC INFORMATION SYSTEM GIS

= GOPHER TORTOISE BURROWS

# HATCH LEGEND DELINEATED WETLAND AREAS WITHIN CORRIDOR LIMITS

#### SURVEYOR'S NOTES:

- 1) THIS SPECIFIC PURPOSE SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF THE SIGNING FLORIDA LICENSED SURVEYOR AND MAPPER.
- 2) THE SPECIFIC PURPOSE OF THIS SURVEY WAS TO LOCATE AND MAP WETLAND JURISDICTIONAL DELINEATIONS AND LOCATION OF THREATENED AND ENDANGERED SPECIES (AS DETERMINED BY OTHERS) IN RELATION TO THE APPROXIMATE TRANSMISSION LINE CORRIDOR LIMITS, IN CONFORMANCE WITH U.S. ARMY CORPS OF ENGINEERS REQUIREMENTS.
- 3) LANDS SHOWN HEREON WERE NOT ABSTRACTED FOR OWNERSHIP, RIGHTS-OF-WAY, EASEMENTS OR OTHER MATTERS OF TITLE BY THIS FIRM, NOR WERE ANY SUCH DOCUMENTS PROVIDED BY CLIENT.
- 4) THE DELINEATION OF THE TRANSMISSION LINE CORRIDOR SHOWN HEREON IS BASED ON GIS SHAPE FILES PROVIDED BY GOLDER ASSOCIATES. THIS SPECIFIC PURPOSE SURVEY IS NOT A BOUNDARY SURVEY OF THE TRANSMISSION LINE CORRIDOR.
- THIS SURVEY WAS PERFORMED USING A COMBINATION OF GLOBAL POSITIONING SYSTEM AND CONVENTIONAL SURVEY METHODOLOGY, HORIZONTAL ACCURACY IS AT THE SUBMETER LEVEL
- COORDINATE LOCATIONS OF WETLAND DELINEATION AND THREATENED AND ENDANGERED SPECIES SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE (902), NORTH AMERICAN DATUM OF 1983/2007 ADJUSTMENT, EXPRESSED IN U.S. SURVEY FEET.
- WETLAND JURISDICTIONAL DELINEATIONS AND THREATENED AND ENDANGERED SPECIES DESCRIPTIONS WERE DETERMINED AND FLAGGED BY GOLDER ASSOCIATES, GAINESVILLE, FLORIDA.
- 8) THE WETLAND FLAG AND THREATENED AND ENDANGERED SPECIES LOCATIONS SHOWN HEREON CORRESPOND TO THE NUMBERING / LETTERING SHOWN ON EACH FLAG LOCATED IN THE FIELD.
- 9) THIS SURVEY IS CERTIFIED TO PROGRESS ENERGY FLORIDA AND GOLDER ASSOCIATES. INC...
- 10) EXCEPT AS SHOWN HEREON, INTERIOR IMPROVEMENTS WERE NOT LOCATED.
- 11) THE GEOREFERENCED AERIAL PHOTOGRAPHY DEPICTED HEREON WAS FLOWN IN 2008. SOURCE OF DATA: SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT.
- 12) TOTAL WETLANDS AREA IS 187.37 ACREST, SEE SHEETS 17 OF 17 FOR TABULATION.

#### SHEET INDEX:

SHEET DESCRIPTION

COVER SHEET INDEX SHEET

LOCATION MAP WITH PHOTO 3-11

12-16 STATE PLANE COORDINATES OF WETLAND AREAS

WETLAND AREAS WITH ACREAGE & STATE PLANE COORDINATES FOR THREATENED & ENDANGERED SPECIES LOC.

THIS IS NOT A BOUNDARY SURVEY LAST DATE IN FIELD: 12/15/2009

SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION
AND THREATENED AND ENDANGERED SPECIES
PROGRESS ENERGY FLORIDA

LEVY-CRYSTAL RIVER ENERGY COMPLEX (LCR)
TRANSMISSION LINE
Citrus County, Florida

01/19/10 P.E.W. WETLANDS "AN, AO & AT" 12/22/09 MISC. REVISIONS DESCRIPTION DATE BY REVISION

DRAWN BY: P.E.W. CHRO! BY: R.M.J. DATE: 12/16/09 DATE: 12/16/09 SHT. \_\_1 JOB No. SCALE: 17

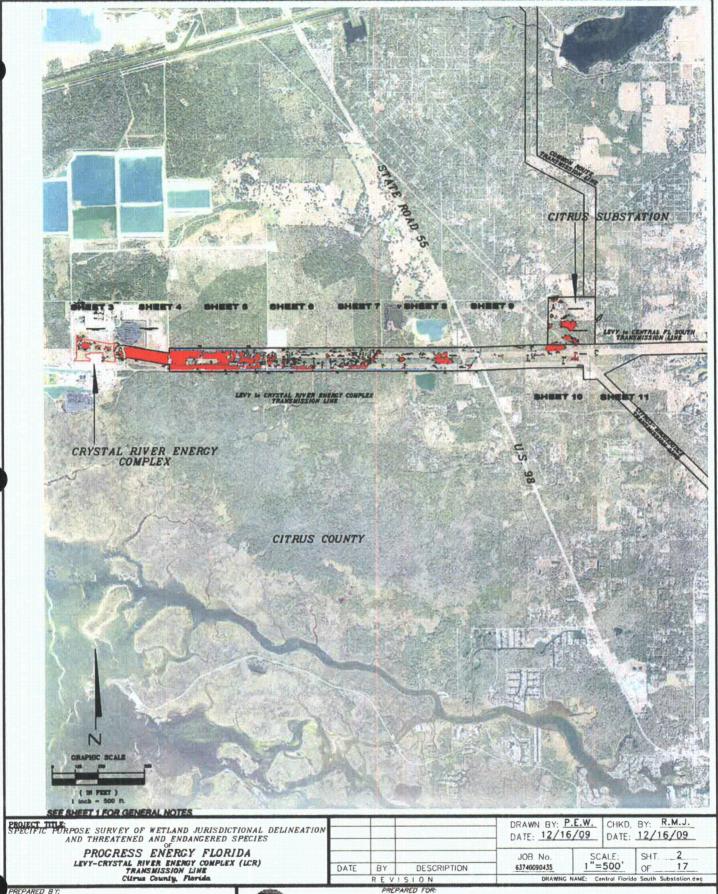
6374090435 n/a OF\_

PEPARED AY

PROJECT TITLE:

ndo, Florida 32804-2620 1150 North John Young Parky CERTIFICATE OF AUTHORIZATION: LB 6969

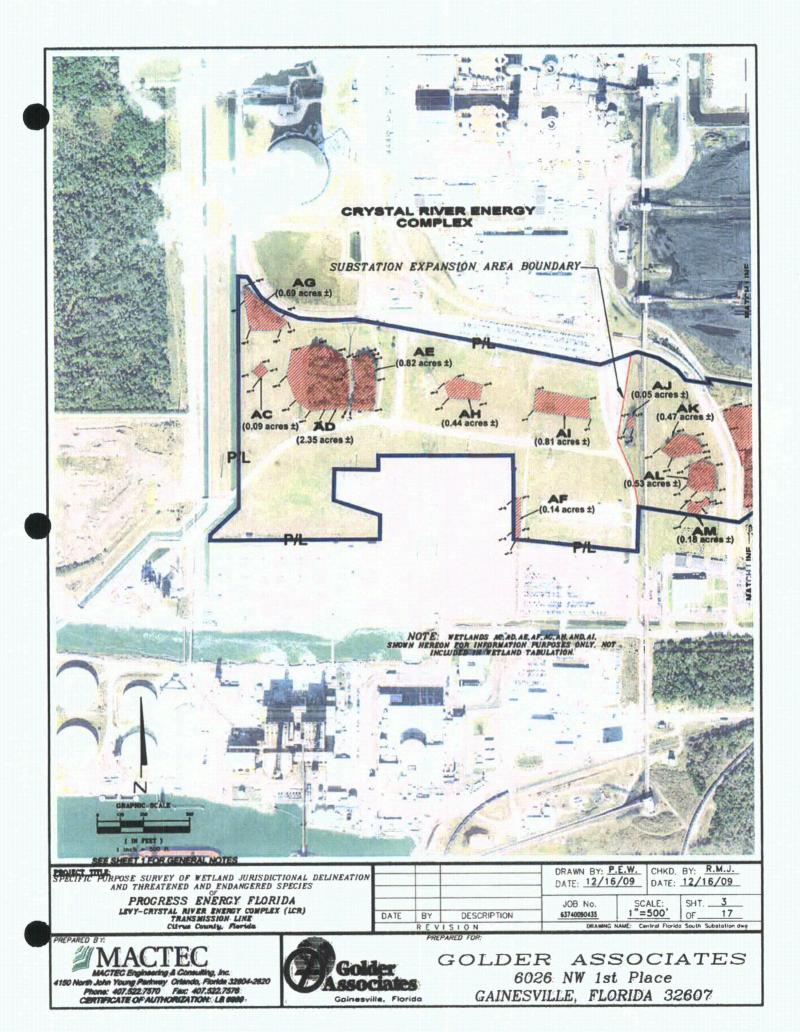


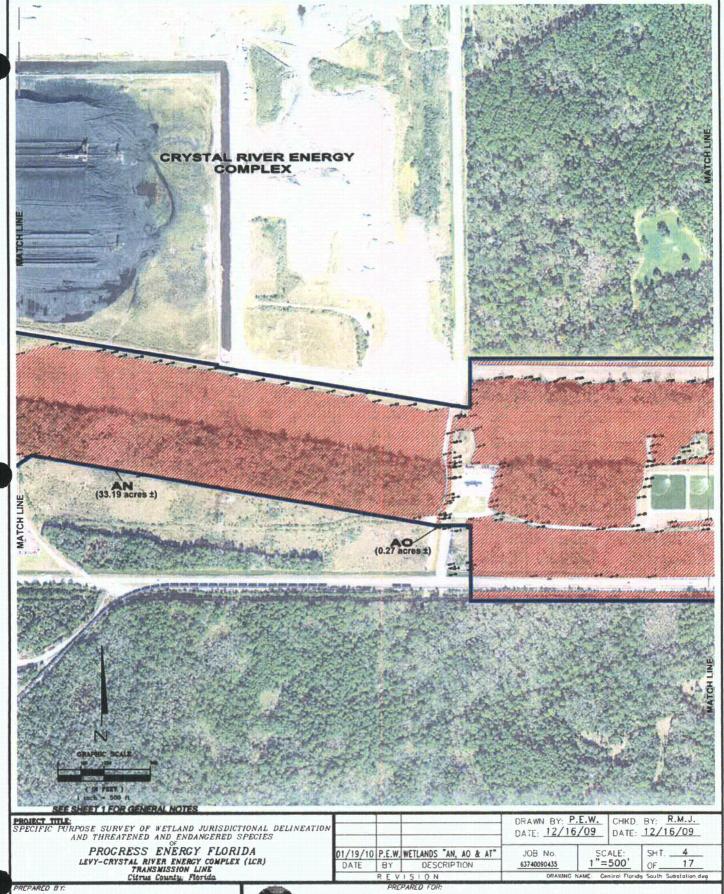


REPARED BY:

MACTEC Engineering & Consulting, Inc. 1150 North John Young Parkway Orlands, Florida 32004-2820 Phone: 407-322/7570 Fax: 407-522/7578 CERTIFICATE OF AUTHORIZATION: LB 6869



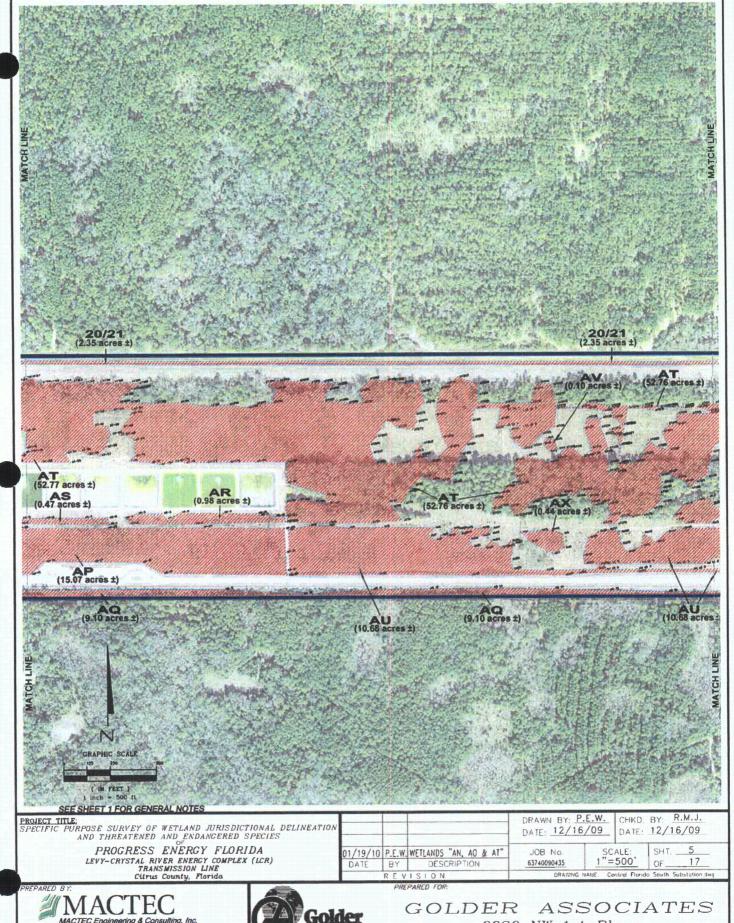




MMACTE

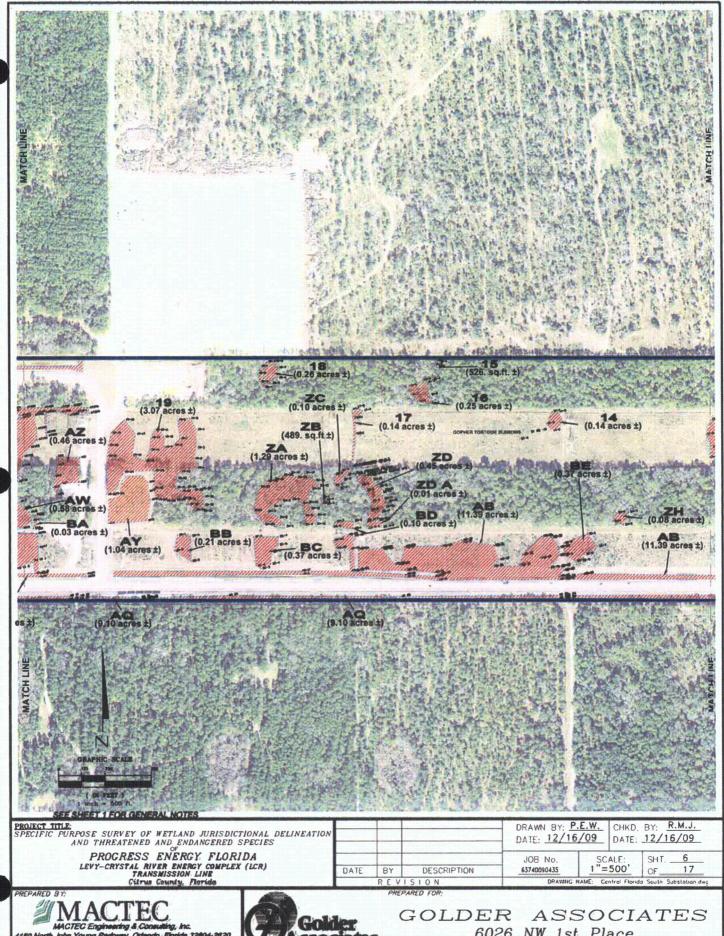
MACTEC Engineering & Consulting, Inc. 150 North John Young Parkway Orlando, Florida 32804-2620 Phone: 407.522.7570 Fax: 407.522.7578 CERTIFICATE OF AUTHORIZATION: L8 6989





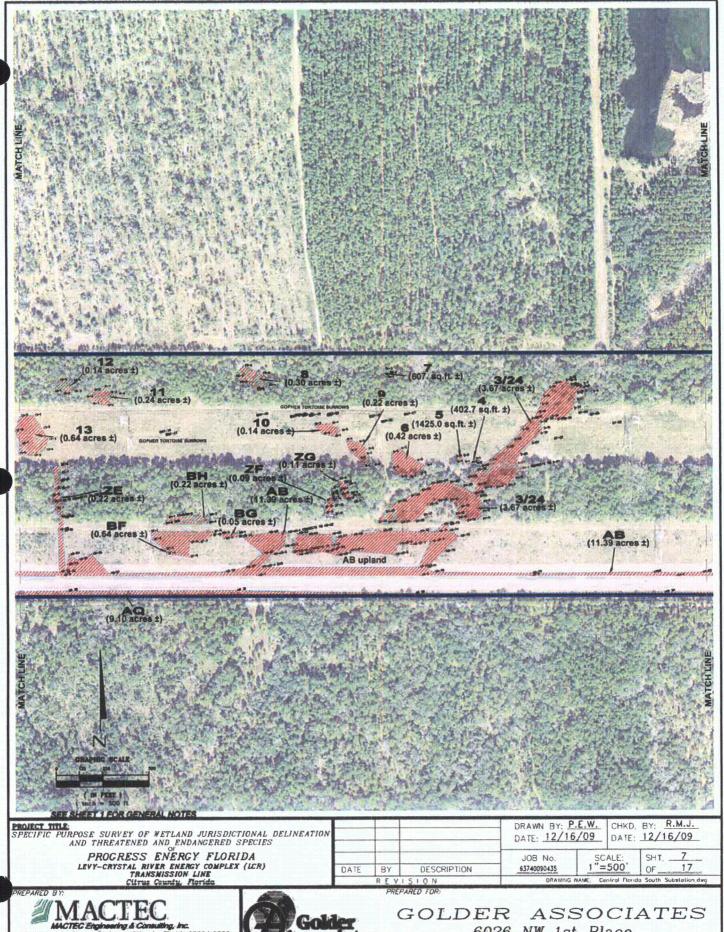
MACTEC Engineering & Consulting, Inc. 4150 North John Young Parkway Orlando, Florida 32804-2620 Phone: 407.522.7570 Fax: 407.522.7576 CERTIFICATE OF AUTHORIZATION: LB 6969





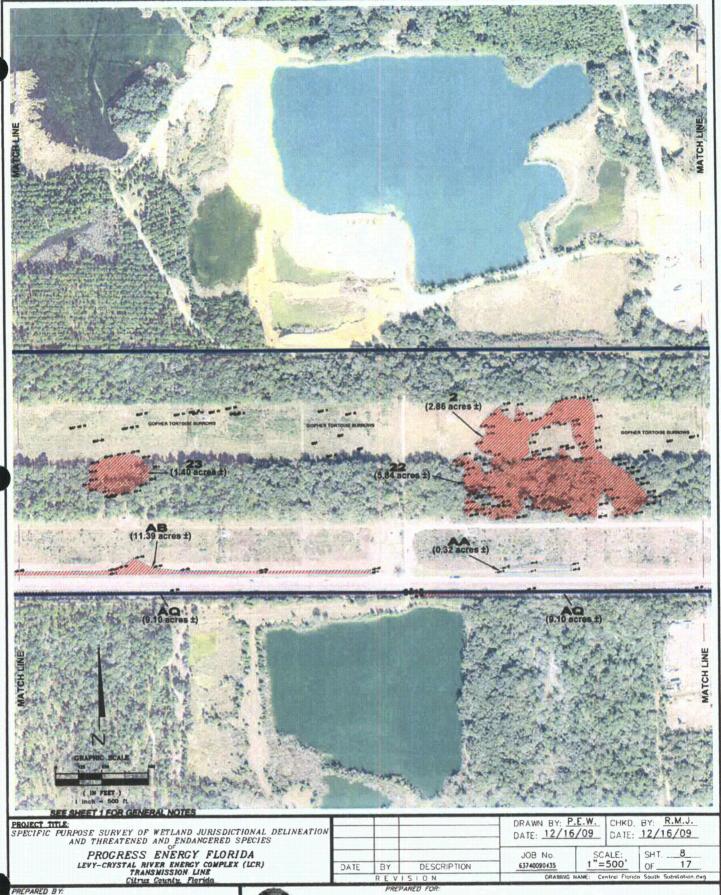
Phone: 407.522,7570 Fax: 407.522,7578 CERTIFICATE OF AUTHORIZATION: LB 6969





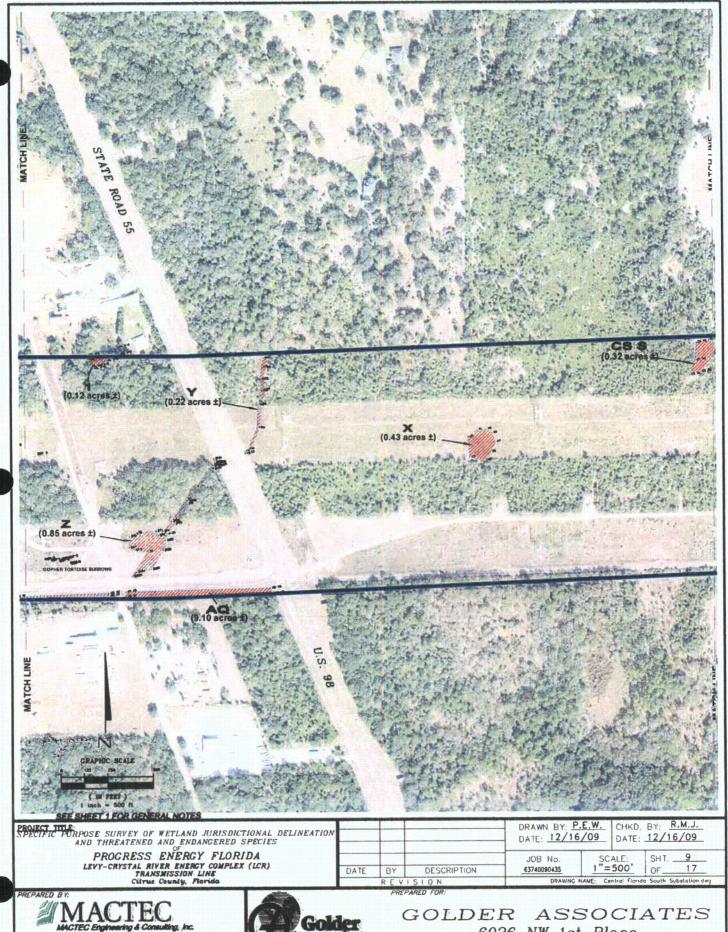
Phone: 407.522,7570 Fax: 407.522,7578: CERTIFICATE OF AUTHORIZATION: LB 6969





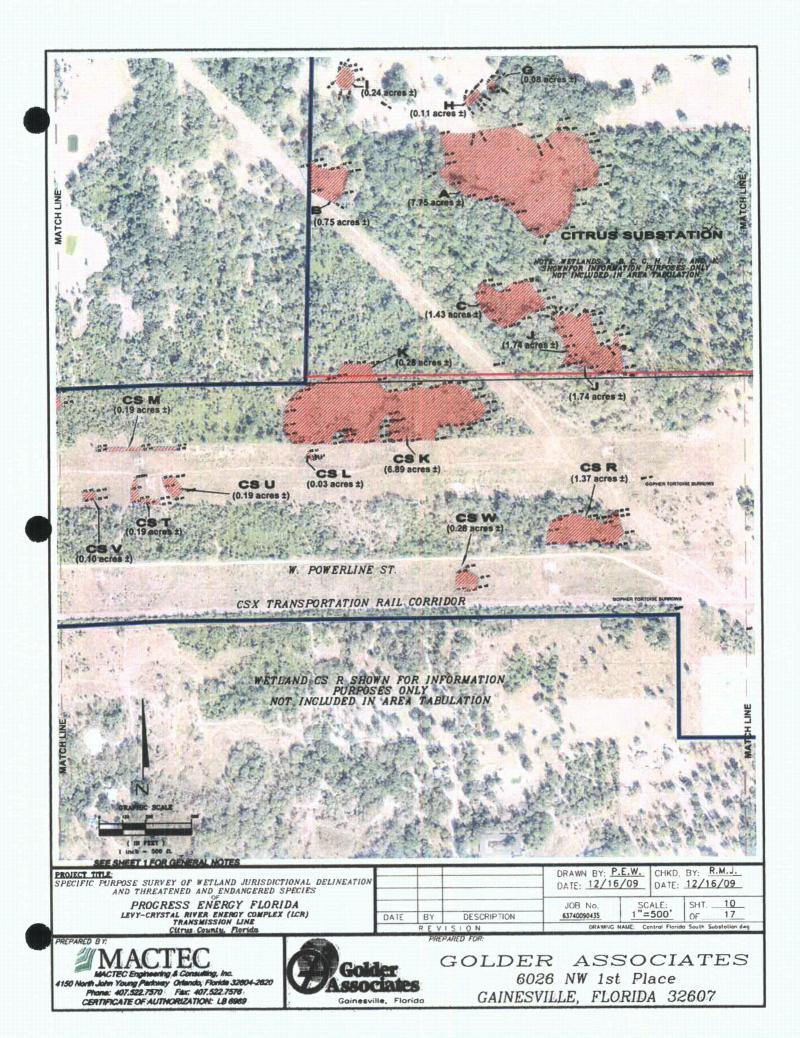
150 North John Young Parkway Orlando, Florida 328 Phone: 407.522,7570 Fair, 407.522,7578 CERTIFICATE OF AUTHORIZATION: L8 6989

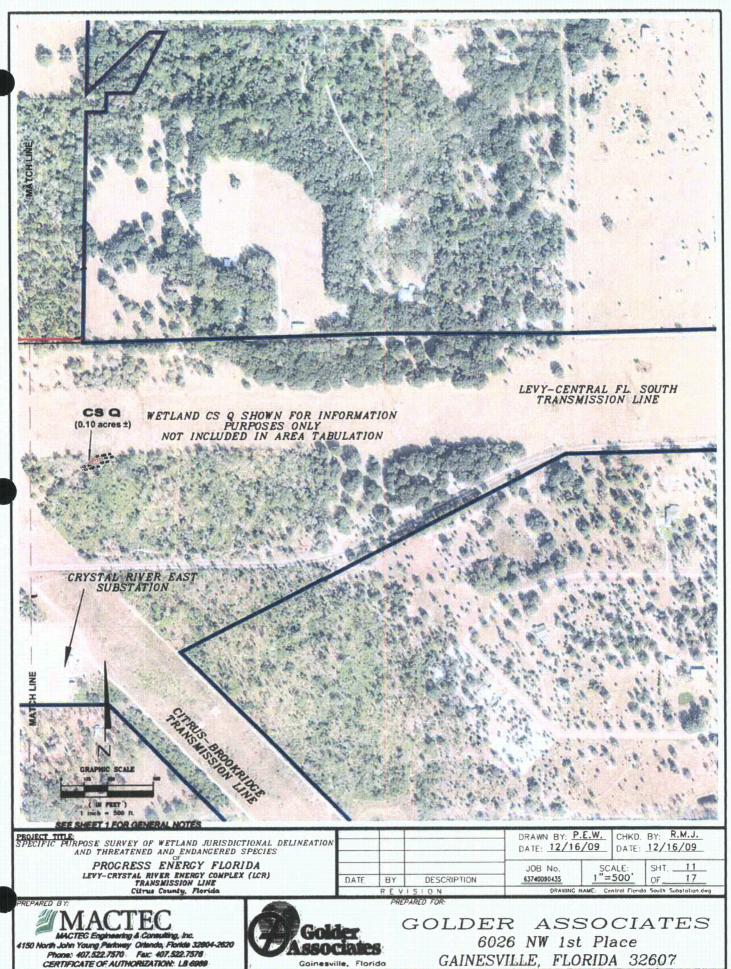




Phone: 407.522,7570 Fax: 407.522,7578 CERTIFICATE OF AUTHORIZATION: LB 6989 Phone: 407.522.7570







Phone: 407.522.7570 Fax: 407.522.7578 CERTIFICATE OF AUTHORIZATION: LB 698

# SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION AND THREATENED AND ENDANGERED SPECIES OF

#### PROGRESS ENERGY FLORIDA

# LEVY to CRYSTAL RIVER ENERGY COMPLEX (LCR) TRANSMISSION LINE

LOÇATED IN
CITRUS COUNTY, FLORIDA

WETLAND FLAG LOCATIONS	WETLAND FLAG LOCATIONS	WETLAND FLAG LOCATIONS	WETLAND FLAG LOCATIONS	WETLAND FLAG LOCATIONS
Desc Northing Easting	Desc Northing Easting	Desc Northing Easting	Desc Northing Easting	Desc Northing Easting
9a-1 1683156 447787 9A-2 1683180 447799 9A-3 1683200 447774 9A-4 1683171 447774 13-1 1682917 445778 13-2 1682880 445923 13-5 1682732 445874 13-4 1682764 445939 13-3 1682821 445955 13-6 1682740 445794 13-7 1682796 445808 13-8 1682864 445778 13-9 1682894 445804 14-2 1682894 444917 14-4 1682991 444998 14-3 1682924 444917 14-4 1682991 444998 14-5 1683232 444322 15-5 1683269 444315 15-6 168364 444282 15-1 1683232 444293 16-2 1683034 444293 16-2 1683046 444294 16-1 1683046 444296 16-5 1683164 444296 16-6 1683164 444296 16-7 1683081 444280 16-8 1683046 444296 17-7 1682987 443860 17-4 1682987 443860 17-4 1682987 443860 17-7 1682988 443874 17-5 1682867 443860 17-7 1682984 443860 17-8 1683015 443860 17-9 1682985 443860 17-1 1682984 443860 18-8 1683154 443364 18-9 1683241 443364 18-9 1683268 4434402	19-1 1682686 443022 19-10 1682892 442816 19-12 1682892 442816 19-13 1682892 442816 19-13 1682893 442789 19-14 1682893 442764 19-15 1682785 442764 19-15 1682787 442666 19-17 1682870 442686 19-19 1682876 442554 19-20 1682809 442539 19-21 1682809 442539 19-21 1682542 442539 19-22 1682542 442529 19-23 1682542 442529 19-23 1682542 442529 19-24 1682663 442570 19-25 1682670 442787 19-26 1682570 442803 19-27 1682513 442803 19-28 1682514 442903 19-29 1682512 442903 19-30 1682514 442966 19-31 1682516 442966 19-32 1682485 443059 19-33 1682485 443059 19-34 1682485 443059 19-35 1682485 443059 19-36 1682516 442966 19-37 1682517 443060 19-38 1682485 443059 19-39 1682518 442966 19-31 1682519 442963 19-34 1682485 443059 19-35 1682485 443059 19-36 1682529 443060 19-37 1682519 442934 19-41 1682579 442934 19-41 1682579 442934 19-41 1682579 442934 19-41 1682579 442934 19-41 1682579 442984 19-42 1682629 442911 19-43 1682810 442984 19-6 1682880 442843	Desc Northing Easting  22-1	Desc Northing Easting  23-1	AA-3 1682070 452284 AA-1 1682107 452513 AA-2 1682076 452516 aa-4 1682068 452101 aa-5 1682092 452129 AA-6 1682103 452224 AB-1 1682068 451421 AB-10 1682075 444979 AB-11 1682077 444321 AB-12 1682087 444149 AB-13 1682104 443575 AB-17 1682121 443575 AB-18 1682104 44418 AB-19 1682071 450813 AB-20 1682071 44303 AB-21 1682114 44303 AB-22 1682071 44336 AB-21 1682114 44303 AB-22 1682114 44303 AB-22 1682114 44303 AB-22 1682114 444303 AB-20 1682127 444318 AB-20 1682128 443890 AB-21 1682128 443890 AB-24 1682239 444148 AB-28 1682247 444143 AB-29 1682257 444453 AB-30 1682275 444453 AB-31 1682168 444112 AB-38 1682184 44655 AB-31 1682184 44655 AB-33 1682184 44655 AB-31 16822184 44655 AB-33 1682184 44655 AB-34 1682208 444984 AB-38 1682213 44485 AB-39 1682213 44485 AB-31 1682194 44465 AB-39 1682213 44485 AB-31 1682197 44633 AB-41 1682197 44633 AB-41 1682197 446866 AB-43 1682209 44498 AB-48 1682309 44498 AB-49 1682207 446099 AB-47 1682094 44604 AB-48 1682307 446099 AB-49 1682207 446099 AB-50 1682307 446099 AB-50 1682307 446099 AB-51 1682207 4

LAST DATE IN FIELD: 12/15/2009

PROJECT TITLE:
SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION
AND THREATENED AND ENDANGERED SPECIES
OF PROGRESS ENERGY FLORIDA
LEVY-CRYSTAL RIVER PREGRY COMPLEX (LCR)
TRANSMISSION LINE
CULTUS; COUNTY, PICTURE

, 			DRAWN BY: P DATE: 12/16	BY: R.M.J. 12/16/09				
			JOB No.	JOB No. SC		SHT12_		
DATE	BY DESCRIPTION		6374090435	<u>n/a</u>		OF17		
	REV	ISION	DRAWING NAME: PHP Transmission Line.dwg					
	PRE	PARED FOR:						

AMACTEC Engineering & Consulting, Inc. 4150 North John Young Parlimy: Orlands, Florida 32004-2020 Phone: 407-522/1970 - Pace 407/52/1978. CERTIFICATE OF AUTHORIZATION: LB 6666.



# SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION AND THREATENED AND ENDANGERED SPECIES

### PROGRESS ENERGY FLORIDA

# LEVY to CRYSTAL RIVER ENERGY COMPLEX (LCR) TRANSMISSION LINE

LOCATED IN CITRUS COUNTY, FLORIDA

WE	ETLANI	D FLAG LO	CATIONS	WETLAN	D FLAG LO	CATIONS	WETLAN	D FLAG L	OCATIONS	WETLAN	D FLAG LO	CATIONS	WETLAN	D FLAG LO	CATIONS
D€	sc No	orthing	Easting	Desc N	orthing	Easting	Desc N	orthing	Easting	Desc No	orthing	Easting	Desc N	orthing	Easting
	3-6	1682074	447970	ac-1	1683516	431946	an-1	1683292	434494	ap-2	1682357	437042	AS-1	1682366	438811
	3-60 3-61	1682194 1682287	447113 447003	ac-2 ac-3	1683567 1683519	431994 432036	an-10	1682581	435666	AP-20	1682083	439771	AS-2	1682372	438327
	3-62	1682308	447139	ac-4	1683477	431988	an-11 an-12	1682494 1682414	436159 436752	AP-21 AP-21	1682208 1682109	439763 439766	AS-3 AS-4	1602364 1602309	438154 438143
AF	3-63	1682304	447300	ad-1	1683299	432261	an-13	1682434	436888	AP-23	1682338	439757	AS-5	1682402	438336
	3-64 3-65	1682297 1682299	447351 447478	ad-10 ad-11	1683305	432460 432338	an-14	1682490	436922	AP-24	1682344	439314	AS-6	1682400	438466
	3-66	1682220	447499	ad-11	1683306 1683357	432336	an-15 an-16	1682538 1682631	436934 436942	AP-25 AP-26	1682344 1682346	438796 438315	AS-7 AS-8	1682402 1682402	438674 438805
AE	3-67	1,682282	447511	ad-3	1683490	432133	an-17	1682696	436941	AP~27	1682333	438062	AT U1	1682981	440964
	3-68	1682294	447596	ad-4	1683633	432162	an-19	1682877	436937	AP-28	1682343	437960	AT U1	1682893	440959
AE	3-69 3-7	1682316 1682075	447759 447083	ad-5 ad-6	1683671 1683628	432302 432405	an-2 an-21	1683189 1682998	434530 436843	AP-29 AP-3	1682345 1682341	437748 436979	AT U1 AT U1	1682891 1682977	441058 441059
AE	3-70	1682312	447963	ad-7	1603576	432460	an-22	1683029	436728	AP-30	1682361	437426	AT-1	1.683163	437103
	3-71	1682312	448064	ad-8	1683524	432471	an-23	1683029	436628	AP-31	1682389	437363	AT-10	1682712	437073
AE	3-72 3-73	1682350 1682351	448092 448126	ae-1 ae-2	1683579 1683623	432486 432569	an-24 an-25	1683050 1683097	436533 436494	AP-33 AP-33	1682399 1682434	437196 437206	AT100 AT101	1682586 1682633	440671 440678
AE	3-74	1682317	448122	ae-2	1683602	432586	an-26	1683078	436385	AP-4	1682157	436941	AT102	1682701	440703
	3-75 3-76	1682286	448182	ae-3	1683592	432600	an-28	1683118	436163	AP-5	1682166	437040	AT103	1682741	440720
	3-77	1682201 1682117	448103 448001	ae-4 ae-6	1683465 1683298	432614 432598	an-29 an-3	1683146 1683072	436036 434571	AP-6 AP-7	1682150 1682128	437060 437046	AT104 AT105	1682791 1682834	440745 440788
AE	3-78	1682091	448042	ae-7	1683302	432479	an-30	1683164	435907	AP-8	1682132	436968	AT106	1682923	440774
	3-79 3-80	1682083 1682078	448571 446028	af-1 af-2	1682822 1682643	433397	an-31	1683195	435764	AP-9	1682137	436946	AT107	1682991	440800
	3-81	1682078	446028	af-2	1.682591	433393 433393	an-32 an-33	1683227 1683234	435650 435534	AQ 10 AQ 11	1681979 1682005	439851 440233	AT108 AT109	1682993 1682932	440932 440930
AE	3-82	1682086	449225	af-4	1682588	433367	an-34	1683257	435417	AQ 12	1682005	440539	AT-11	1682708	437223
	3-83 3-84	1682086 1682089	449489 449993	af-5 af-6	1682648 1682823	433367	an-35	1683267	435349	AQ 13	1682010	440883	AT110	1682881	440901
	87	1682490	449976	ag-1	1683741	433370 432103	an-36 an-37	1683291 1683298	435247 435158	AQ 14 AQ 15	1682004 1681995	441218 441515	AT111 AT112	1682873 1682824	440984 440992
AE	3-80	1682484	449989	ag-2	1683741	431935	an38	1683320	435120	AQ 16	1681985	441831	AT113	1682770	441055
	3-9 3-91	1682076 1682092	445016 450005	ag-3 ag-4	1683902 1683981	431907 431907	an-39	1683328	435043	AQ 17	1681985	442325	AT114	1682785	441108
	3-92	1682105	450051	ag-6	1683812	432110	an-4 an-40	1682967 1683341	434610 434855	AQ 18 AQ 19	1681968 1681970	442322 442378	AT115 AT116	1682850 1682888	441157 441232
	9-93	1682156	450139	ag-/	1683783	432142	an-41	1683364	434790	AQ 20	1681986	442380	AT117	1682987	441238
	9-94 9-95	1682106 1682088	450238 450387	ah-1 ah-2	1683483	433050	an-43	1683312	434604	AQ 21	1681979	442708	AT118	1682988	441408
	96	1682083	450811	ah-3	1683446 1683364	432986 433010	an-44 an-5	1683318 1682768	434542 434604	AQ 22A AO 22B	1681970 1681971	442711 442738	AT119 AT-12	1682974 1682693	441492 437237
AB	3-97	1682085	451421	ah-4	1683355	433176	an-6	1682758	434645	AQ 23	1681977	442749	AT120	1682991	441531
	3-A1. 3-A2	1682121 1682313	443868 443862	ah-5 ai-1	1683435 1683247	433194	an-7	1682770	434695	AQ 24	1681988	443186	AT121	1682938	441548
	-A3	1682320	443830	ai-2	1683357	433784 433773	an-8 an-9	1682749 1682643	434751 435253	AQ 25 AQ 26	1681981 1681990	444117 444975	AT122 AT123	1682898 1682872	441596 441530
	-A4	1.682289	443751	ai-3	1683412	433482	ao-1	1682361	436888	AQ 27	1681974	444977	AT124	1682843	441539
	8-A5 8-A6	1682245 1682241	443767 443840	ai-4 aj-1	1683292 1683195	433465 433974	ao-10	1682961	436998	AQ 28 AQ 29	1681974	445015	AT125 AT126	1682836 1682789	441567
		1682123	443846	aj-2	1603195	434017	ao-11 ao-12	1.682828 1.682744	436977 436973	AQ 29 AQ 30	1681989 1681993	445015 446056	AT127	1682685	441581 441569
AB	-U21	1682118	447961	aj-3	1683264	434020	ao-13	1682714	436974	AQ 31	1681992	446970	AT128	1682641	441561
AB	1-0210	1682200 1682258	447270 448028	aj-4 ak-1	1683275 1683094	433995 434385	ao-14 ao-15	1682692 1682631	436973 436973	AQ 32 AQ 34	1681975 1681979	447936 449288	AT129 AT130	1682646 1682693	441519 441521
AE	-U23	1682241	447924	ak-2	1683156	434346	ao-16	1682525	436963	AQ 35	1681975	450329	AT131	1682748	441490
AE	-U24	1682244	447851	ak-3	1683166	434243	ao-17	1682427	436920	AQ 36	1681970	451594	AT132	1682770	441518
AB	-U25 -U26	1682185 1682208	447828 447580	ak-4 ak-5	1683086 1683033	434158 434222	ao-18 ao-19	1682410 1682355	436913 436913	AQ 37 AQ 38	1681947 1681937	451596 451651	AT133 AT134	1682846 1682884	441497 441476
AB	I-U27	1682183	447513	ak-6	1683063	434378	ao-2	1682410	436893	AQ 39	1681967	451649	AT135	1682935	441484
AB	-020	1682203 1682187	447440 447300	al-1 al-2	1683032	434389	ao-3	1682430	436896	AQ 40	1681972	452265	AT136	1682937	441407
		1602310	447242	a1-3	1682996 1682984	434318 434299	ao-4 ao-5	1682505 1682629	436938 436954	AQ 41 AQ 42	1681976 1681993	453171 453677	AT137 AT138	1682878 1682772	441390 441428
		1682232	447228	al-4	1682951	434354	ao-6	1.682690	436952	AQ 43	1681979	453675	AT139	1682736	441422
		1682188 1682120	447164 447104	al-5 al-6	1682857 1682994	434464	ao-7	1682717	436947	AQ 44	1681972	453771	AT140 AT141	1682727	441380
AL.		1002120	441104	am-1	1682714	434451 434366	ao-8 ao-9	1682828 1682972	436959 436983	AQ 45 AQ 46	1681999 1682019	453769 454553	AT141	1682773	441325 441285
				am-2	1682715	434299	ap-1	1682407	437053	AQ 47	1681989	454567	AT143	1682716	441237
				am-3	1682800	434309	ap-10	1682099	436947	AQ 9	1682006	439432	AT144	1682695	441195
				am-4 am-5	1682795 1682823	434373 434402	ap-11 ap-12	1682092 1682094	437392 437736	AR-1 AR-10	1682376 1682422	439763 439610	AT145 AT146	1682732 1682707	441079 441007
				am∽6	1682783	434441	ap-13	1682090	437819	AR-11	1682412	439623	AT147	1682618	441011
				am-7	1682769	434378	ap-14	1682089	438024	AR-12	1682406	439706	AT148	1682577	441032
							ap-15 ap-16	1682095 1682162	438385 438464	AR-13 AR-2	1682408 1682366	439761 439275	AT149 AT150	1682581 1682561	440985 440954
							ap-17	1682160	438723	AR-3	1682367	438922			
							ap-18	1682157	438983	AR-4	1682401	438893			
							ap-19	1682095	439097	AR-47 AR-5	1682761 1682423	438355 438961			
										AR-6	1682422	439101			
										AR-7 AR-72	1682393	439121			
										AR-12 AR-8	1682701 1682425	439034 439197			
										AR-9	1682423	439428			
									LAST DATE	IN FIE	LD: 12/	15/2009			

PROJECT TITLE:
SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION
AND THREATENED AND ENDANGERED SPECIES

PROGRESS ENERGY FLORIDA

LEVY-CRYSTAL RIVER ENERGY COMPLEX (LCR)

TRANSMISSION LINE

CUITUM CONDULY, Florida

	:		DRAWN BY: P.E.W. CHKD. BY: R.M.J. DATE: 12/16/09							
	1		JOB No.	IOB No. SCA		SHT.	13			
DATE	BY	DESCRIPTION	6374090435	n/a		OF	17			
	REV	ISION	DRAWING	DRAWING NAME: PHP Transmission Line, dwg						
	PRE	PARED FOR:								

orth John Young Perkingy Orlando, Florida 328 Phone: 407.522,7570: Fax: 407.522,7578 CERTIFICATE OF AUTHORIZATION: LE MAN



### SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION AND THREATENED AND ENDANGERED SPECIES

## PROGRESS ENERGY FLORIDA

LEVY to CRYSTAL RIVER ENERGY COMPLEX (LCR) TRANSMISSION LINE

LOCATED IN CITRUS COUNTY, FLORIDA

WETLA	ND FLAG L	OCATIONS	WETLAND	FLAG LOC	ATIONS	WETLANI	FLAG LO	CATTONS	WETLANI	D FLAG LOCA	ATI ONS	WETLA	ND FLAG LOC	CATIONS
Desc	Northing	Easting	Desc No	rthing E	asting		orthing			orthing Ea			Northing E	
AT151	1682528	440933	AT211	1683009	442016	AT-28	1602624	438011	AT-4	1682971	437065	AU1	1682332	439777
AT152	1682498	440892	AT212	1682992	442003	AT280	1683146	440354	AT-40	1602773	438212	AU1.0	1682295	440644
AT153 AT154	1682442	440884	AT213	1682972	442068	AT281	1683145	440316	AT-41	1682798	438207	AULI	1602335	440669
AT155	1682414 1682455	440878 440919	AT214 AT215	1682960 1682956	442068 441966	AT282	1683154		AT-42	1682819 1682880	438261	AULZ	1682333 1682304	440701
AT156	1682455	440978	AT216	1682958	441889	AT284	1683088 1683024	440186	AT-44	1682879	438288	AU14	1682309	440711 440730
AT157	1682402	441006	AT217	1682898	441887 441837	AT285	1683021	440103		1682786	438362 438364	AU15	1682335	440737
AT158	1682408		AT218	1682901	441837	AT285	1683023	440104	AT-46	1682767	438400	AU16	1682337	440825
AT159 AT-16	1682444	441073 437199	AT219 AT-22	1682859 1682372	441812 437675	AT286	1683035	440051	AT-48	1682738	438305	AU17	1682335	440882
AT160	1682639 1682476	441096	AT220	1682760	441845	AT287	1683035 1683098			1682738 1682968	438248 437006	AU18	1682307 1682294	440878 440827
AT161	1682489	441124	AT221	1682780	441845 441779	AT289	1683124	440046	AT-50	1682706	438183	AU2	1682355	439892
AT162	1682496 1682507	441166	AT222	1682813	441735 441703	AT-29	1682693	438014	AT-51	1682709	438293	AU20	1682277	440761
AT163 AT164	1682507	441209 441244	AT223 AT224	1682737 1682696	441703	AT290	1683140		AT-52	1682708	438450	AU21	1682235	440777
AT165	1682529	441270	AT225	1682690	441658 441581	AT291	1683135 1683144		AT-53	1682706	438604 438582	AUZZ	1682225 1682268	440843 440877
AT166	1682506	441341	AT226	1682789 1682843	441590	AT293	1683145	439730	AT-55	1682768	438659	AU24	1682230	440977
AT167	1682541	441376	AT227	1682843	441600	AT294	1683137	439654	AT-56	1682757 1682768 1682749	438701	AU25	1682234	440959
AT168 AT169	1682508 1682474	441411 441418	AT228	1682898	441610	AT295	1683101	439712	AT-57	1682742	438766	AU26	1682264	440985
AT-17	1682581	437200	AT229 AT-23	1682987 1682361	441625 437811	AT296	1683027 1683019		AT-58	1682789 1682858	438799 438824	AU27	1682252 1682164	441001 440984
AT170	1682459	441439	AT230	1682989	441705	AT298	1683000	439561	at~6	1682894	436992	AU29	1682112	440993
AT171	1682475 1682464	441475	AT231	1682974	441766	AT299	1.683016	439459	AT-60	1682903	438810	AU3	1692354	439991
AT172 AT173	1682405	441516 441525	AT232 AT233	1682992 1682994	441792	AT-3	1683034	437068	AT-61	1682906	438731	AU30	1682103	441172
AT174	1682359	441480	AT234	1682989	441838 441924	AT-30 AT300	1682722 1683010	438022 439358	AT-62 AT-63	1682974 1682989	438731 438833	MU32	1682111 1682137	441457 441468
AT175	1682356	441560	AT235	1682998	441927	AT301	1683030		AT-64	1682995	438939	AU33	1682139	441388
AT176	1682396	441578	AT236	1683001	441839	AT302	1683028	439068	AT-65	1682970	438935	AU34	1682184	441383
AT177 AT178	1682394 1682402	441634 441697	AT237 AT238	1683004	441707	AT303	1683030	438923	AT~66	1682898	438886	AU35	1682282	441409
AT179	1682440	441752	AT239	1682999 1683022	441528 441445	AT 304 AT 305	1683032 1683071	438864 438691	AT-69	1682853 1682856	438868 438899	AU 36	1682314 1682324	441463 441516
AT-18	1682503	437172	AT-24	1682367	437935	AT306	1683104	438939	AT-69	1682826	438948	AU38	1682311	441578
	1682762	436918	AT240	1683022	441407	AT307	1683110	438984	at-7	1682893	437078	AU39	1682247	441584
AT180 AT181	1682474 1682525	441803 441789	AT241 AT242	1682995 1682998	441370	AT308	1683133	438971	AT-70	1602738	438952	AU4	1682341	440102
AT182	1682553	441805	AT243	1683018	441234 441243	AT 309	1683141 1682768	438929 438031	AT-13	1682692 1682700	439090 439133	AUAU	1682202 1682235	441616 441694
AT183	1682553 1682582	441812	AT244	1683063	441230	AT310	1683141			1682711	439191		1682307	441703
AT184	1682622	441794	AT245	1683063 1683119	441216 441145	AT311	1683145	438771	AT-76	1682700	439224	AU43	1682255	441769
AT185 AT186	1682639	441836 441884	AT246 AT247	1683130	441145	AT312	1683137	438683	AT-77	1682701 1682702	439342	AU 4 4	1682312	441832
AT187	1682607 1682586	441925	AT247	1683093 1683021	441110 441102	AT313	1683145 1683143		AT-78 AT-79	1682702	439465 439605	AU45	1682331 1682330	441917
AT188	1682549	441960	AT249	1683020	440952	AT315	1683141	438492		1682907	437093	AU47	1682252	442153 442159
AT189	1682584 1682475	441985	AT-25	1682429	437970	AT316	1683139	438449	AT-80	1682907 1682702 1682588	439771	AU48	1.682109	4421.62
AT-19 AT190	1682475	437172 442050	AT250 AT251	1683021 1683066	440815	AT317	1683172	438392	AT-81	1682588	139769	AU49	1682108	442418
AT191	1682697	442067	AT252	1683125	440813 440816	ATJIB	1683164 1683149	438344 438319	AT-86 AT-87	1682484	439763 439769	AUS	1682345 1682091	440290 442420
AT192	1682748	442079	AT253	1683162	440706	AT-32	1682858	438021		1682403 1682374	439774		1682091	442162
AT193	1682798	442115	AT254	1683127	440641	AT320	1683155	438240	AT-80	1682375	439773	AU52	1682092	441669
AT194 AT195	1682841 1682898	442156	AT255 AT256	1683100	440609	AT321	1683159	438127	AT89	1682366	439989	AU53	1682086	441349
AT196	1682973	442153 442136	AT257	1683024 1682954	440593 440583 440622	AT323	1683157 1683156	438001 437894	at-9 AT90	1682806 1682368	437107 440229	AUS5	1682078 1682079	441277 440767
AT197	1682987	442150	AT258	1682834	440622	AT324	1683152	437804	AT91	1682368 1682379	440399	AU56	1682085	440262
AT198 AT199	1682987 1682878	442193	AT259	1682779	440653	AT325	1603143		AT92	1682454	440343	AU57	1682083	439785
AT-2	1693110	442201 437069	AT-26 AT260	1682523 1682700	437968 440554	AT326	1683172 1683169	437638	AT93	1682482 1682473	440321 440411			
AT-20	1602420	437332	AT261	1682739	440500	AT328	1683152	437543 437497	AT95	1682536	440429			
AT-20	1683022	436961	AT262	1682801	440512	AT329	1683166	437403	AT96	1682571	440464			
AT200 AT201	1682860 1682988	442208	AT263 AT264	1682755 1682723	440458 440475	AT-33	1682856		AT97	1682617	440514			
AT202	1682990	442206 442284	AT265	1682694	440390	AT 330	1683177 1683179	437364 437259	AT98	1682602 1682596	440556 440612			
AT203	1682972	442327	AT266	1682696	440254	AT332	1683174	437197		1682181	442130			
AT204	1682992	442369	AT267	1682751	440236	AT-34	1682808	438048	AUU1 2	1682138	442038			
AT205	1682985	442438	AT268	1682795	440221	AT-35	1682730		AUU1 3	1682138	441875			
AT206 AT207	1683013 1683024	442431 442344	AT269 AT-27	1682839 1683102	440260 436283	AT-36	1682702 1682707		AUU1 4 AUU1 5	1682142 1682138	441687			
AT208	1683015	442277	AT270	1682924	440310	AT-38	1682719		AUU1 6	1682138	441499 441497			
AT209	1683014	442188	AT271	1682922	440336		1682736	438156	AUU1 7	1682110	441670			
AT-21	1682385		AT272	1682889	440369				AUU1 B	1682107	441966			
AT210	1683015	442093	AT274	1682873 1682919	440457 440483				AUU1 9	1682112	442141			
			AT275	1682959	440469									
			AT276	1683022	440524									
			AT277 AT278	1683084 1683133	440510 440497									
			AT279	1683133	440497									

LAST DATE IN FIELD: 12/15/2009

PROJECT TITLE:
SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION
AND THREATENED AND ENDANGERED SPECIES
PROCRESS ENERGY FLORIDA
LEVY-CRYSTAL RIVER ENERGY COMPLEX (LCR)
TRANSMISSION LINE
CUITE COUNTY, POTICE.

٧		<u> </u>	•	DRAWN BY: P. DATE: 12/16			BY: R.M 12/16/0	
	DATE	BY	DESCRIPTION	JOB No. 6374090435	SC n/a	ALE:	SHT,1	14
_			ISION PARED FOR:	DRAWING N	NAME: PH	P Transmis	sion Line.dug	

MACTEC Engineering & Consulting, Inc. 4150 North John Young Partinery Orlands, Floride 32804-2820 Phone: 407-522-7670: Fac: 407-522-7678, CERTIFICATE OF AUTHORIZATION: LB 8000.



### SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION AND THREATENED AND ENDANGERED SPECIES

#### PROGRESS ENERGY FLORIDA

## LEVY to CRYSTAL RIVER ENERGY COMPLEX (LCR) TRANSMISSION LINE

LOCATED IN CITRUS COUNTY, FLORIDA

WETLA	ND FLAG L	DCATIONS	WETL	AND FLAG LO	CATIONS	WETLAND	FLAG LO	CATIONS	WETLAN	D FLAG LO	CATIONS	WETLAN	FLAG LO	CATIONS
Desc	Northing	Easting	Desc	Northing	Easting	Desc No	rthing	Easting	Desc No	orthing	Easting	Desc No	orthing	Easting
AU6 AU7	1682339 1682294	440571 440546	BD-1 BD-2	1682352	443862	CB-B1	1678254	464254	CS C1	1683956		CS J1	1683486	
AU8	1682273	440578	8D-3	1682396 1682392	443863 443764	CB-B2 CB-B3	1678176 1678240	464278 464392	CS C10	1683791 1683889		CS J10	1.683775 1.683771	459645 459677
AU9	1.682299	440609	BD-4	1682361	443747	CB-B4	1678293	464415		1683957		CS J12	1683788	459731
AV1 AV2	1682826	441184	BE-1	1682323	445136	CB-B5	1678313	464333	CS C13	1.683934	459299	CS J13	1683761	459771
AV2	1682795 1682753	441167 441199	BE-1 BE-2	1682323 1682274	445136 445009	CB-C6	1677808	464889	CS C14	1683899		CS J14	1,683786	459807
AV4	1682769	441246	BE-2	1682274	445009	CB-C7 CB-F1	1677729 1678222	464905 464922	CS C15	1683944 1683961	459415	CS J15	1683773 1683716	459846 459850
AV5	1682816	441229	BE-3	1682207	445010	CB-F2	1678249	464900		1683900	459549	CS J17	1683671	459868
AW1 AW10	1682378 1682404	441886 441866	BE-3 BE-4	1682207	445010	CB-F3	1678233	464878	CS C3	1683861		CS J18	1683605	459889
AW2	1682360	441938	BE-4	1682176 1682176	445072 445072	CB-F4 CB-F5	1678175 1678133	464868 464834	CS C4 CS C5	1683811 1683795	459597 459536	CS J19	1683606 1683509	459934 459743
AW3	1682359	442073	BE-5	1682176 1682178	445103	CB-F6	1678080	464874	CS C6	1683753	459463	CS J20	1683612	459967
AW4 AW5	1682400	442125	9E-5	1682178	445103	CB-F7	1678103	464966	CS C7	1683719	459406	CS J21	1683684	459972
AW 6	1682445 1682469	442114 442080	BE-6 BE-6	1682213 1682213	445121 445121	CB-F8 CS Al	1678184	464936	CS C8 CS C9	1683705		CS J22	1683660	459990
AW7	1682504	442058	BE-7	1682256	445190	CS A10	1.684761 1.684394	459034 459323	CS D1	1683743 1685837	459302	CS J23 CS J24	1683590 1683486	460005 460018
AW8	1682486	441998	BE-7	1682256	445190	CS All	1684371	459379	CS D2	1685822	458969	CS J25	1683454	460010
AW9 AX1	1682463 1682304	441927 441269	BF-1 BF-1	1682317	446506	CS A12	1684332	459437	CS D3	1685815		CS J26	1683456	459888
AX2	1682328	441213	BF-2	1682317 1682272	446506 446521	CS A13	1684234 1684198	459503 459563		1685857 1685928	459067 459038		1683494 1683548	459674 459714
AX3	1682321	441148	BF-2	1682272	446521	CS A15	1684220	459619	CS D6	1.685890	458984	CS J5	1683599	459702
AX4	1682311	441042	BF-3	1682219	446589	CS A16	1684242	459702	CS El	1685948 1685998	458838	CS J6	1683652	459687
AX5 AX7	1682259 1682194	441094 441215	BF-3 BF-4	1682219 1682193	446589 446599	CS A17	1684367	459766	CS E2	1685998	458840		1683698	459640
AX8	1682225	441278	BF-4	1682193	446599	CS A18	1684447 1684476	459769 459887	CS E3	1686047 1686061	458785 458713	CS JB	1683744 1683767	459654 459631
AY1	1682382	442538 442766	BF-5	1682177	446720	CS A2	1684646	459054	CS E5	1686047	458662		1683397	459288
AY10 AY11	1682511 1682399	442766 442746	BF-5	1682177	446720	CS A20	1684573	459901	CS E6	1685969		CS K10	1683397	458863
AY8	1682606	442753	BF-6 BF-6	1682255 1682255	446722 446722	CS A21 CS A22	1684649 1684709	459850	CS E7	1685889 1685933	458646	CS K11	1683379	458958 459030
AY9	1682558	442754	BF-7	1682258	446775	CS A23	1684746	459839 459814	CS E9	1685924	458800	CS K12	1683403 1683405	459108
AZ1	1682742	442387	BF-7	1682258	446775	CS A24	1684774	459715	CS Fl	1686165	158874	CS K14	1683367	459190
AZ2 AZ3	1682748 1682700	442260 442263	BF-8	1682293 1682293	446843 446843	CS A25	1684827	459676	CS F2	1686116		CS K15	1683326	459204
AZ4	1682639	442248	BF-9	1682314	446849	CS A26 CS A27	1,684779 1,684734	459665 45961.0	CS F3 CS F4	1686099 1686093		CS K16	1683298 1683250	459265 459268
AZ5	1.682579	442240	BF-9	1682314	446849	CS A28	1684701	459565	CS F5	1686096	458691	CS K18	1683201	459232
AZ6 AZ7	1.682541 1682599	442261 442283	BG~1 BG-1	1682307 1682307	446980	CS A29	1.684737	459524	CS F6	1686108	458627	CS K19	1683179	459159
AZ8	1682607	442383	BG-2	1682286	446980 446979	CS A3 CS A30	1684598 1684799	459065 459419	CS F7	1686155 1686173	458627	CS K2	1683432 1683151	458397 459129
B-25	1682246	444015	BG-2	1682286	446979	CS A31	1684774	459252	CS F9	1686170	458827	CS K21	1683177	459090
BA1	1682352	442152	BG-3	1682276	446909	CS A32	1684762	459222	CS G1	1684981	459307	CS K22	1.683171	459012
BA2 BA3	1682429 1682431	442156 442144	BG-3 BG-4	1682276	446909 446891	CS A4	1684556 1684488	459018	CS G2 CS G3	1684982 1685010		CS K23	1683100	458987
BA4	1682357	442144 442134	BG-4	1682306 1682306	446891	CS A5 CS A7	1684420	459087 459172	CS G4	1685046	459361	CS K24 CS K25	1683094 1683089	458853 458749
BB-1	1682317	442915	BH-1	1682390	446601	CS A8	1684399	459236	CS G5	1685050	459320	CS K26	1683136	458733
BB-2 BB-5	1682232 1682176	442899 442989	BH-1 BH-2	1682390 1682404	446601	CS A9	1684411	459288	CS G6	1685027	459291	CS K27	1683199	458747
8B-6	1682313	442988	BH-2	1682404	446694 446694	CS B1 CS B2	1684585 1684452	458265 458324	CS GT	1685000 1683506	459294	CS K28 CS K29	1683205 1683242	458767 458734
BC-1	1682307	443329	BH-3	1682403	446823	CS B3	1684389	458454	CS HI	1684928	459233	CS K3	1683449	. 458455
BC-2	1682150	443341	BH-3	1682403	446823	CS B4	1684442	458500	CS H2	1684952 1684970	459245	CS K30	1683201	458708
BC-3 BC-4	1682136 1682160	443367 443419	BH-4 BH-4	1682360 1682360	446820 446820	CS B4A CS B5	1684556 1684596	458532	CS H3	1684970 1685007		CS K31 CS K32	1683169	458684 458685
BC-5	1682226	443423	BH-5	1682357	446585	CS B6	1684572	458492 458427	CS H5	1684971		CS K33	1683118 1683089	458700
BC-6	1682264	443459	8H-5	1682357	446585	CS B7	1684586	458357	CS H6	1684940	459167	CS K34	1683086	458598
BC-7	1682309	443459				CS B8	1684616	458338	CS H7	1684908	459186	CS K35	1683087	458481
									CS II	1685051 1685102	458572	CS K36	1683122 1683141	458497 458493
									CS 13	1685126	458527	CS K38	1683149	458472
									CS 14	1685124	458505	CS K39	1683148	458449
									CS 15 CS 16	1685100	458478	CS K4	1683517	458489
									CS 17	1685048 1684998	458495	CS K40 CS K41	1683111 1683081	458426 458428
									CS 18	1685002	458545	CS K42	1683080	458320
									CS IB2	1685640	458625	CS K43	1683086	458215
									CS IB2	1685377 1685571		CS K44 CS K45	1683131 1683180	458178 458169
									CS IB6	1685644		CS K46	1683255	458172
									CS IB7	1685563	458591	CS K47	1.683320	458200
									CS IB8	1685375	458497	CS K48	1683367	458249
												CS K5 CS K6	1683518 1683518	458562 458639
												CS K7	1683426	458676
												CS K8	1683362	458733
												CS K9	1683370	458819

LAST DATE IN FIELD: 12/15/2009

PROJECT TITLE:
SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION
AND THREATENED AND ENDANGERED SPECIES
OF
PROCRESS ENERGY FLORIDA
LEVY-CRYSTAL RIVER ENERGY COMPLEX (LCR)
TRANSMISSION LINE
CUTUS COUNTY, PLOTIC

-	<del>  </del>		DRAWN BY: P DATE: 12/16			BY: R.M.J. 12/16/09
DATE	BY	DESCRIPTION	JOB No. 6374090435	SC n/a	ALE:	SHT15
DAIL	REV	I S I O N				OF 1/ ssion Line,dag

toth John Young Parkway Orlands: Florida 3280 Phone: 407.522,7570; Fluic 407.522,7578; CERTHRICATE:OF, AUTHORIZATION: LB 6869



# SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION AND THREATENED AND ENDANGERED SPECIES

## PROCRESS ENERGY FLORIDA LEVY to CRYSTAL RIVER ENERGY COMPLEX (LCR) TRANSMISION LINE

LOCATED IN CITRUS COUNTY, FLORIDA

See Northing   Sasting   Dees Northing   Easting   Dees Northing   D	WETLAND	FLAG LOCATI	ONS WETLAND	FLAG LOCA	TIONS	WETLAND	FLAG LO	CATIONS	WETLANI	FLAG LOCAT	TONS	WETLAND	FLAG LOCA	TIONS
CS LI 1682009	Desc No	rthing East	ing Desc No	rthing Ea	sting	Desc Nor	thing I	Easting	Desc No	orthing Eas	ting	Desc No:	rthing Ea	sting
CS LI 1682975 (1983) (1								452733	WL4-1	1682706	448264	ZA-1	1682368	443494
CS M. 1683007 67790 CS T. 168206 49793 ML2-13 1682206 42226 ML2-3 1682206 44164 AP-7 1682406 AP-6 1682307 47700 CS T. 168200 47710 CS T. 1682006 4		1683008 4 1682995 4		1683255	456868			452459 452426			448242	ZA-3	1682450	443398
CS M2 1683051 47566 CT 10 1682051 47566 CT 10 1682051 47576 CT 10	CS L4	1683008 4	158332 CS S4	1683367	456938	WL2-12	1682926	452376	WL5-1	1682685	448206	ZA-4		
CS M. 1683006 497310 CT 1 1682906 497320 CT 1 1682906 49730 ML2-15 1682927 49220 ML2-2 168290 49730 ML2-16 168290 49730 ML2-16 168290 49730 ML2-17		1683071 4	157592 CS S5		456977 456893	WL2-13		452315 452294		1682722	448160	ZA-6	1682515	443526
CS M5 1683007 (379167 CS 72) 162279 47737 W.C.2-17 162279 47737 W.C.2-17 162279 47739 Z.S.2-17 162277 47731		1683051 4	157406 CS T1	1682905	457379	WL2-15	1682927	452266	WL5-4	1682686	448164	2A-7	1682494	
CS N1 1683070 (579394 CS 74 168276) 497314 WIZ-17 1682703 (420094 ML6-3 1682764 44766 2A-10 1682881 442684 CS N1 168304 (46246 CS 75 168277) 497314 WIZ-17 1682703 42200 ML6-4 1682764 44766 2A-10 1682881 442686 CS N1 168306 (46246 CS 75 168277) 497314 WIZ-17 1682704 42250 ML6-6 1682809 447662 ZA-13 1682200 423615 CS N3 168306 (46246 CS 75 168278) 497324 WIZ-20 168298 44266 WL6-6 1682809 447662 ZA-13 1682200 423615 CS N3 168306 (46246 CS 75 168278) 497324 WIZ-20 168298 44268 WL6-6 1682809 447662 ZA-13 1682200 423615 CS N3 168306 (46240 CS 75 168288) 497326 WL6-20 168298 WL6-6 1682809 447662 ZA-13 1682200 423615 CS N3 168306 (46240 CS 75 168288) 497324 WL7-20 168298 WL6-6 1682809 447662 ZA-13 1682200 423615 CS N3 1683112 463520 CS N3 168320 CS N3		1683047 4	157157 CS T2		457363	WL2-16		452216	WL6-1 WL6-2	1682669	448002	ZA-8 ZA-9	1682377	443595
SS NJ 1683412 462406 CS T5 1682757 17714 WILZ-18 1682893 45260 MLS-5 1682650 47765 ZA-12 1682750 47765 ZA-12 1682750 47765 ZA-13 1682750 ZA-13 1682750 47765 ZA-13 1682750 Z		1683070 4	157394 CS T4	1682763	457341	WL2-17	1682703	452090	MTP-3	1682765	447861	ZA-10	1682381	443658
CS N3 1683356	CS N1	1683412 4	62408 CS T5	1682757	457418	WL2-18	1682893	452203			447815	ZA-11 2h-12	1682429	443661
CS N5 1683369 62246 CS 79 1682784 437366 NL2-20 1682924 43269 ML2-20 1682868 44798 NL2-11 1682678 44750 NL2-12 1682678 42750 NL2-20 168		1683359 4	162388 CS T6	1682782			1682741	452650		1682609	447862	ZA-13	1682500	443615
CS 02 1683072	CS N4	1683369	162446 CS T9	1682784	457386	WL2-20	1682984	452142	WL6-7	1682608	447913	ZA-14	1682572	
CS D2 1663060 465327 CS U1 1682625 40763 NL2-22 1682257 4200 419-4 1682262 447650 ZA-18 1882503 443510 CS P1 1683265 463976 CS V1 1682757 57004 ML2-26 1682720 452097 ML9-4 1682260 447650 ZA-19 1682667 447461 ZA-19 1682667 447561 ZA-19 1682667 247561 ZA-19 1682667 ZA-1	CS N5							452069 452016	WL0-0		447660	ZA-16	1682618	443653
CS 04 1663096 463490 CS US 1682851 457524 ML2-25 1682769 451900 ML9-4 1682813 47766 2A-19 1682889 44344   CS P1 1613259 43076 CS VI 1687273 457084 ML2-25 1682767 452079 ML9-4 1682733 44767   CS P2 1683328 46015 CS VI 1682899 457113 ML2-29 1682767 452079 452640 ML9-4 1682733 44767   CS P3 1683328 46015 CS VI 1682899 457113 ML2-29 1682767 452079 452640 ML9-6 168270 47713 A-22 1682614 443948   CS P5 1683338 463975 CS MI 168224 55907 ML2-31 1682767 452555 ML9-7 1682733 447713 A-22 1682614 443948   CS P6 1683338 463975 CS MI 168224 55907 ML2-31 168266 452571 ML2-30 1682761 457113 ML2-29 1682761 ML2-29 1682761 457113 ML2-29 1682761 ML2-29 1682761 ML2-29 1682	CS 02	1693080 4	163527 CS U3	1692925	457637	WL2-23	1682857	452055	WL9-2	1692712	447634	ZA-17		443598
CS P1 1683265 463976 CS V1 1682775 1682809			163522 CS U4	1682779	457575	WL2-24		452054	WL9-3 WL9-4		447561	ZA-18 ZA-19	1682658	443519
CS P2 1683291 66006 CS V2 1682783 457158 MJ2-29 1682604 452565 MJ3-7 1682730 447181 ZA-22 168284 433394 CS P3 1683284 46007 CS V1 1682824 47181 MJ2-29 1682742 452556 MJ3-7 1682730 447181 ZA-23 1682851 433384 CS P3 1683304 46007 CS V1 1682824 47181 MJ2-29 1682742 452556 MJ3-7 1682730 447181 ZA-23 1682851 433384 CS P3 1683304 46007 CS V1 1682828 47281 MJ2-29 1682704 432533 X1 1682737 44718 ZA-23 1682851 433384 CS P3 1683205 463931 CS P3 1683206 47430 MJ2-31 1682806 474			163976 CS V1	1682775	457084	WL2-26	1682720	452037	WL9-5	1602000	447630	ZA-20	1682647	443481
CS P9 1683328 463075 CS W1 1682286 457079 MI2-3 1682761 452533 X1 1682887 455079 A24 1682455 443388   CS P5 1683310 463944 CS W2 1682286 499215 MI2-39 1682866 425253 X1 1682898 455079 A24 1682455 443388   CS P5 1683310 463944 CS W2 1682286 499215 MI2-39 1682866 425253 X1 1682898 455073 A24 1682455 443384   AA-3 1683295 439071 CS W3 1682277 459130 MI2-32 1682866 42524 X3 18777 45772 A25772 A2	CS P2	1683279 4	164006 CS V2	1682783	457158	WL2-28	1682680	452588	WL9-6				1682624	443434
CS P5 169338 465975 CS N1 168234 459227 Mi2-30 1682763 422533 X1 1682878 455679 ZA24 1682455 443324 CS P5 1683206 463931 CS W3 1682278 459133 Mi2-31 682806 452524 X3 1682277 455679 ZA24 1682285 43312 Mi2-31 682806 452524 X3 1682277 455752 ZB-2 1682461 43581 AL-1 1683205 463931 CS W3 1682277 459133 Mi2-32 1682866 452524 X3 1682277 455752 ZB-2 1682461 43691 AL-1 1682103 4370 CS W3 1682277 459133 Mi2-34 682869 452524 X3 1682277 455752 ZB-2 1682461 43709 AL-1 168205 45913 Mi2-34 682869 45914 X6 1682757 455752 ZB-2 1682461 43709 AL-1 168205 45913 Mi2-34 682869 45914 X6 1682757 455752 ZB-3 1682461 43709 AL-1 168205 45913 Mi2-34 682869 45914 Mi2-36 1682807 45914 Mi2-36 168307 46622 Mi2-36 1682607 45914 Mi2-36 168307 46622 Mi2-36 168291 Mi2-36 1682807 45914 Mi2-36 168307 46622 Mi2-36 168291		1683293 4	164015 CS V3 464002 CS V4		457079	WL2-29	1682779	452643	WL9-8	1682670	447713	ZA-23	1682581	443358
CS P7 1683265 4 45581 CS W3 1682277 459097 MIZ-33 1682890 452518 X5 1682717 455606 ZB-1 1682521 447568 AJ-1 1683195 439374 CS W4 1682277 459097 MIZ-33 1682890 452518 X5 1682717 455762 ZB-2 1682489 447164 AJ-2 1683195 439374 CS W4 1682277 459097 MIZ-33 1682890 45248 X6 168275 455752 ZB-3 1682489 44716 AJ-2 1683264 434017 CS W5 1682400 49417 MIZ-35 1682889 45241 X7 1682810 455778 ZB-3 1682489 44716 AJ-2 1683261 43718 MIJ-2 1682891 44719 MIZ-36 1682892 452581 X7 1682891 45578 ZB-3 1682489 44718 AJ-2 1683156 43648 6410-3 1682262 44718 MIZ-36 1682891 45281 X7 1683289 45453 ZC-3 1682589 44718 MIZ-3 1683261 447	CS P5	1683338 4	463975 CS W1	1682343	459227	WI-2-30	1682763	452553	X1	1682975	455679	ZA24	1682455	
AJ-1 1683195 433071 CS MF 1682277 453093 MI2-31 1682890 452518 X5 1682712 455728 28-2 1682485 443112 AJ-3 1683195 431071 CS M5 1682200 459147 MI2-35 1682867 452448 X6 1682715 455722 28-3 1682875 454312 AJ-4 1683165 434289 MIJ-1 1682820 44797 MIZ-35 1682877 452361 X7 1682810 455779 28-4 1682201 447378 AK-3 1683165 434243 MIJ-1 6682020 447479 MIZ-35 1682876 452581 X8 1682800 455778 28-4 1682201 447378 AK-3 1683165 434243 MIJ-1 6682020 447478 MIZ-35 1682878 45283 X8 1682890 45578 28-2 1682584 447378 AK-4 1683066 434243 MIJ-1 6682020 447481 MIZ-39 1682769 452281 YII 1682890 454553 ZC-3 1682584 4473789 AK-5 1683165 43422 MIJ-1 1682005 44673 MIZ-4 1682662 452281 YII 1682890 454583 ZC-3 1682584 4473789 AK-6 1683063 434227 MIJ-1 6683007 466327 MIZ-4 1682662 452281 YII 1682890 454580 ZC-5 1682640 44380 AK-6 1683063 434278 MIJ-1 2 1683007 466327 MIZ-4 1682662 452241 YII 1682890 454680 ZC-5 1682640 44380 AK-6 1683063 434278 MIJ-1 2 1683007 466327 MIZ-4 1682662 452241 YII 1682890 454680 ZC-5 1682640 44380 AK-6 1683063 434278 MIJ-1 2 1683007 466327 MIZ-4 1682662 45261 YII 1682890 45460 ZC-5 1682640 44380 AK-6 1683063 434378 MIJ-1 2 1683007 466327 MIZ-4 1682662 45261 YII 1682890 454500 ZC-5 1682640 44380 AK-6 1683063 44368 MIJ-2 1683007 466307 MIZ-4 1682607 45281 YII 1683008 454500 ZC-5 168260 443937 AL-3 1682894 43461 MIJ-1 6683008 446200 MIZ-7 1683007 452600 YII 1683275 454510 ZC-5 1682364 444010 AK-6 1682891 43345 WIII-5 1683008 46609 MIJ-2 1683008 452500 YII 1683279 454533 ZC-7 1682364 44408 AK-6 1682894 43461 WIII-7 1683014 46692 MIZ-9 1683018 452512 YI 1683209 454507 ZC-7 1682308 AK-6 1682894 43461 WIII-7 1683014 46692 MIZ-9 1683018 46280 YI 1683279 454533 ZC-7 1682264 444010 AK-6 1682894 43461 WIII-7 1683014 46692 MIZ-9 1683018 46280 YI 1683279 454533 ZC-7 1682264 444010 AK-6 1682894 43461 WIII-7 1683014 46692 MIZ-9 1683018 46280 YI 1683279 454533 ZC-7 1683028 AK-6 1682894 43461 WIII-7 1683016 46692 MIZ-9 1683018 46280 YI 1683279 454533 ZC-7 1683281 AK-6 1682294 AK-6 2 CC-7 1682644 44441 MIJ-2 1683014 44692 WIII-7 168	CS 26							452531	x2 x3	1682838	455640	ZB-1		
A-7-3 1683195 434007 CS M5 1682400 43917 ML2-36 1682869 452461 XB 1682894 45379 ZC-1 1682610 444793 A-7-3 1683264 433935 ML10-2 1682891 447473 ML2-37 1682812 452250 XB 1682894 455795 ZC-1 1682648 443793 A-8-4 1683156 434243 ML10-4 1682892 447481 ML2-39 1682718 452281 XB 1682894 455728 XC-2 1682648 443759 A-8-5 1683166 434243 ML10-4 1682892 447481 ML2-39 1682718 452281 XB 1682894 455728 XC-2 1682648 443759 A-8-6 1683066 434188 ML10-5 1682693 4474781 ML2-39 1682718 452281 XB 1682894 455728 XC-2 1682648 443759 A-8-6 1683064 34378 ML11-1 1683005 446711 ML2-40 1682678 4522481 XB 1682894 454546 ZC-5 1682644 443759 A-8-6 1683064 34378 ML11-2 1683007 466731 ML2-47 1682807 452642 XB 1682894 454546 ZC-5 1682644 443803 A-8-6 1683064 34381 ML11-3 1683101 466731 ML2-40 1682678 4522481 XB 1682894 454546 ZC-5 1682644 443803 A-8-6 1683064 34381 ML11-3 1683101 466731 ML2-40 1682678 4522481 XB 1682894 454546 ZC-5 1682644 443803 A-8-6 1682894 434398 ML11-3 1683101 466731 ML2-40 1682678 452146 XB 1682894 454540 ZC-6 1682894 434398 ML11-3 1683101 466731 ML2-40 1682678 452146 XB 1682894 454540 ZC-6 1682894 434384 ML11-3 1683101 466731 ML2-40 1682678 452146 XB 1682894 434540 ZC-6 1682894 434384 ML11-3 1683101 466731 ML2-40 1682678 434540 ZC-6 1682894 434398 ML2-8 1683094 43459 ML2-8 1683094	AJ-1	1683195	433974 CS W4	1682277	459097	WL2-33	1682890	452518	X5	1682712	455728	2B-2	1682491	
AR-1 1683094 431495 MILD-3 1682897 44739 MILZ-36 1682892 47497 MIZ-36 1682892 47497 MIZ-36 1682892 47398 AR-2 1683164 434346 MILD-3 1682907 44738 MIZ-39 1682769 452281 YI 1682880 455572 7C-2 1682688 43738 AR-3 1683166 43423 MILD-6 1682902 44738 MIZ-39 1682769 452281 YI 1682892 455572 7C-2 1682868 43738 AR-3 1683166 43423 MILD-5 1682903 44738 MIZ-39 1682769 452281 YI 1682893 454553 ZC-3 1682898 43738 AR-3 1683003 43423 MILD-5 1682803 447383 MIZ-4 1682899 452642 YI 1682893 454458 ZC-6 1682206 443807 AR-5 1683003 434229 MILI-3 1683007 446287 MIZ-5 1682891 452642 YI 1682893 454580 ZC-6 1682266 443807 AR-3 1682964 434318 MILI-3 1683007 446287 MIZ-5 1682891 452640 YI 1682893 454580 ZC-6 1682266 4443807 AR-3 1682964 434318 MILI-3 1683007 446287 MIZ-5 1682891 452640 YI 1682893 454580 ZC-6 1682266 4443807 AR-5 1682964 434318 MILI-3 1683007 446280 MIZ-5 1682891 452650 YI 1682265 45550 ZD A-2 1682362 444018 AR-5 1682954 434334 MILI-5 1683003 446250 MIZ-5 1682891 452650 YI 1683257 45550 ZD A-2 1682362 444018 AR-5 1682257 434464 MILI-7 1683014 446199 MIZ-5 1683018 452557 YI 1683227 45551 ZD A-4 1682399 434932 AR-6 1682294 43446 MILI-7 1683014 446199 MIZ-5 1683018 452557 YI 1683297 45551 ZD A-4 1682399 434932 AR-6 1682295 43444 MILI-7 1683014 446199 MIZ-5 1683018 452557 YI 1683297 454593 ZD-11 1682201 44493 MIZ-5 1683018 452557 YI 1683297 454593 ZD-11 1682201 44493 MIZ-5 1683018 45257 YI 1683297 454593 ZD-11 1682201 44493 MIZ-5 1683018 446199 MIZ-5 1683018 45257 YI 1683297 454593 ZD-11 1682201 44493 MIZ-5 1683018 446199 MIZ-5 1682401 446199 MIZ-5 1682401 446199 MIZ-5 1682401 446199 MIZ-5 1682					459103	WL2-34	1682869	452448		1682757	455752	ZB-3 ZB-4	1682509	443709
AR-1 1683156 43424 Millo-1 1682851 47743 Millo-1 1682812 47743 Millo-1 1682812 47743 Millo-1 1682861 47743 Millo-1 1682861 47735 Mil	AJ-4		433995 WL10-1		447497	WL2-36		452361	X8	1682859	455759	zc-1	1682671	443793
AR-4 1683066 43423 WIL10-4 1682902 447481 WIL2-5 1682718 45223 YIO 1682773 454436 2C-4 1682879 43803 AR-4 1683086 43158 WIL10-5 1682661 447531 WIL2-40 1682678 452642 YII 1682800 454686 2C-5 1682646 43827 AR-5 1683063 43422 WIL11-1 1683005 446671 WIL2-40 1682678 452241 YI2 1683016 454690 2C-6 1682646 43827 AR-6 1683063 434378 WIL11-2 1683077 446632 WIL2-5 1682912 452652 YI14 1683188 454501 2D A-2 1682864 43827 AR-7 168296 431318 WIL11-3 1683107 446627 WIL2-5 1683021 452652 YI14 1683188 454501 2D A-2 1682362 440137 AR-7 1682867 43438 WIL1-5 1683003 446620 WIL2-5 1683021 45260 YI17 1683297 454513 2D-1 1682362 440137 AR-7 1682874 434451 WIL12-1 1683081 44598 WIL3-5 1683021 445885 YI 1683159 454512 2D A-1 1682294 439398 AR-8 1682804 43429 WIL12-5 1683014 446032 WIL3-10 16831124 448782 YI 1683159 454512 2D-1 1682626 440032 AR-9 1682805 434303 WIL12-5 1683144 446089 WIL3-10 16831134 448784 YI 1683104 455627 ZD-12 1682563 440028 AR-9 1682804 43441 WIL2-1 1683414 446089 WIL3-10 16831134 448786 YI 1683294 43441 WIL2-1 1682414 43441 WIL3-1 1683110 448787 YI 1683294 454512 ZD-12 1682563 440028 AR-9 1682804 43441 WIL2-1 1682464 WIL3-10 1683114 448786 YI 1683094 454527 ZD-12 1682563 440028 AR-1 1682904 43441 WIL2-1 1683414 446018 WIL3-10 1683114 448786 YI 1683094 454527 ZD-12 1682563 440028 AR-1 1682804 43441 WIL2-1 1682414 WIL3-1 1683116 448775 YI 1682705 45499 ZD-11 1682552 440015 AR-1 1682804 434410 ZE-1 1682414 WIL3-1 1683116 448775 YI 1682705 45499 ZD-11 1682552 440015 AR-1 1682804 43441 WIL2-1 1682404 WIL3-1 1683116 448775 YI 1682705 45499 ZD-11 1682552 440015 AR-7 1682789 43441 ZD-10 1682464 WIL3-1 1683164 448776 YI 1682804 WIL3-1 1682404 ZD-1 1682404 WIL3-1 1683116 WIL3-1 1683104 44878 YI 1683104 WIL3-1 1682404 WIL3-1 1682404 WIL3-1 1683104 44878 YI 1683104 YI 1682404 YI 1682804 WIL3-1 1682404 WI	AK-1	1683094			147434	WL2-37		452296	X9		455728	ZC-2	1682648	443758
AR-5   1683036   434158 Millo-5   1682863   447533 Millo-2   16828149   432641 Y112   1683090   454466 2C-5   1682616   431827   AR-6   1683033   434378 Millo-1   1683090   446271 Millo-2   1682662   432241 Y112   1683096   454450 2C-6   1682666   431827   AR-6   1683032   434389 Millo-1   1683090   446237 Millo-2   1682912   432525   Y114   1683159   454501 DA-2   1682364   440137   AR-1   1682864   434318 Millo-1   1683001   446237 Millo-2   1683002   432525   Y114   1683159   454501 DA-2   1682364   440137   AR-1   1682864   434318 Millo-1   1683003   446237 Millo-2   1683001   432637 Millo-1   1683001	AK-2 AK-3				447481	WL2-38				1682773	454436	2C-4	1682572	443783
AR-C 1833063 34378 Will-1-2 1683070 46332 MIZ-41 1682662 452164 VI3 1683096 454509 ZD A-1 1682400 443998 MIZ-1683002 436209 WIL-15 1683002 446208 MIZ-5 1683002 452631 VI3 1683264 454510 ZD A-3 1682365 444018 MIZ-1682896 434318 WILI-15 1683093 446208 WIZ-7 1683013 452557 VI7 1683227 454533 ZD-1 1682399 43443 WILI-16 1683053 446159 WIZ-8 1683013 452557 VI7 1683297 454533 ZD-1 1682399 434464 WILI-17 1683014 446192 WIZ-9 1683018 452512 VZ 1683223 454532 ZD-10 1682269 439364 MIZ-6 1682694 43469 WIZ-8 1683018 452557 VI7 1683297 454533 ZD-1 1682620 43964 MIZ-8 1682891 43464 WILI-2 1683081 446599 WIZ-8 1683018 452557 VI7 1683297 454533 ZD-1 1682620 43964 MIZ-8 1682291 434651 WIZ-9 1683081 445997 WIZ-9 1683018 452557 VI7 1683297 454533 ZD-1 1682620 43998 MIZ-8 1682714 434366 WIZ-2 1683081 446599 WIZ-9 1683018 452512 VZ 1683223 454532 ZD-1 1682620 43998 MIZ-8 1682714 43366 WIZ-2 1683081 446599 WIZ-9 1683018 452512 VZ 1683223 454519 ZD-1 1 1682600 A34396 WIZ-9 1683083 446092 WIZ-9 1683014 44878 VZ 1683110 454527 ZD-12 1682563 444028 MIZ-8 1682213 43439 WIZ-8 1683083 446092 WIZ-9 1683112 44878 VZ 1683110 454527 ZD-12 1682563 444028 MIZ-8 1682803 A34402 ZD-1 1682604 A46092 WIZ-9 1683114 44878 VZ 1683104 45527 ZD-12 1682563 444028 MIZ-8 1682803 A34402 ZD-1 1682604 A47049 WIZ-9 1683114 44878 VZ 1683104 A4878 VZ 1683104 MIZ-8 1682803 A4402 ZD-1 1682251 A47049 WIZ-9 1682803 A4402 WIZ-9 1682803 A4402 ZD-1 1682402 A47049 WIZ-9 1682803 A4402 ZD-1 1682402 A47049 WIZ-9 1682404 A4704	AK-4	1683086	434158 WL10-5	1682863	447533	WL2-4	1682849	452642	Y1.1	1682890	454486	2C-5		
AL-1 1683202 434398 Mill-3 1689077 446287 Mill-5 1683004 456250 Mill-6 1683254 444018 AL-3 1682896 434398 Mill-1 1683105 446253 Mill-6 168302 452631 Y15 1683275 45510 ZD A-3 1682364 443937 AL-3 1682884 434298 Mill-1 1683014 446253 Mill-2 1683014 445257 Y17 1683275 45510 ZD A-3 1682399 443932 AL-5 1682857 434464 Mill-1 1683014 446192 Mill-9 1683013 42557 Y17 1683227 45533 ZD-1 1682391 443928 AL-6 1682987 434464 Mill-1 1683014 44692 Mill-9 1683018 425512 Y2 1683223 454532 ZD-1 0 1682361 443928 AL-1 1682714 434366 Mill-2 1683014 445987 Mill-3 1 1683014 485987 Mill-1 1682714 434366 Mill-2 1683014 44598 Mill-3 1 1683014 48598 Mill-3 1 1683014 48598 Mill-3 1 1683014 48598 Mill-3 1 1683014 48694 Mill-1 1682755 43447 AD-15 1682551 444025 AM-3 1682889 434373 Mill-2 1683144 446018 Mill-3 1 1682789 43447 AD-15 1682401 446018 Mill-3 1 168289 43440 AD-15 168289 AD-15 16828		1683033 1683063						452241		1683016	454509	ZD A-1	1682400	443998
Al2 1682996 434318 W.11-4 1683110 446253 W.12-5 1683002 432631 Y.15 1683263 434364 W.11-5 1683051 446159 W.12-7 1683021 432557 Y.17 1683273 45533 Z.D1 1682289 434454 W.11-1 1683081 446159 W.12-8 1683013 432557 Y.17 1683273 45533 Z.D1 1682289 434454 W.11-1 1683081 446159 W.12-8 1683013 432557 Y.17 1683273 45533 Z.D1 1682260 43964 W.12-8 1682891 434464 W.11-1 1683081 446159 W.12-8 1683013 432557 Y.17 1683282 Z.D1 1682260 43964 W.12-8 168281 Y.17 168328 Y.17 168328 Z.D1 1682260 43964 W.12-8 1682714 43466 W.12-1 1683081 44692 W.13-1 1683013 448815 Y.1 168316 44876 Y.1 1682801 444028 W.13-1 1683112 48876 Y.1 1682801 44402 X.1 1	AL-1	1683032	434389 WL11-3	1693077	446287	WL2-5	1682912	452652	Y14	1683158	454501	ZD A-2		444018
AL-4 1682851 434354 Will-6 1683051 446159 Wil-2-8 1683018 452512 YZ 1683297 454533 ZD-1 1682202 443964 AL-6 1682894 434465 Will-1 1683014 446598 Wil-2-9 1683018 452512 YZ 1683203 454532 ZD-1 1682202 443964 AL-6 1682794 434465 Will-2-1 1683014 445987 Wil-3-1 1683014 448815 Y3 1683159 454519 ZD-11 1682802 443964 AL-6 1682715 434366 Will-2-1 1683007 446028 Wil-3-0 1683012 486782 Y4 1683104 45527 ZD-1 1682653 444028 AL-6 1682705 434399 Will-2-3 1683039 Wil-3-0 1683012 486782 Y4 1683004 454597 ZD-1 1682563 444028 AL-6 168280 Al-7 43439 Will-2-1 1683144 446016 Wil-3-1 1683164 48776 Y5 1682809 454597 ZD-1 1682551 444025 AL-6 168280 Al-7 434373 Will-2-1 1683144 446016 Wil-3-1 1683164 48776 Y5 1682809 Al-7 4440010 AL-6 1682795 434402 ZD-1 1682451 446016 Wil-3-1 1683164 48776 Y5 1682809 Al-7 444025 AL-7 440010 AL-7 440010 AL-7 440010 AL-7 AL-7 AL-7 AL-7 AL-7 AL-7 AL-7 AL-7	AL-2	1682996	434318 WL11-4		446253	WL2~6	1683002	452631	Y15 Y16		454510	2D A-3 2D A-4	1682399	443932
AL-5 1682957 434464 W11-7 1683014 446192 W12-9 1683013 48915 Y3 16831223 454519 ZP-10 1682302 43998 AM-1 1682914 434451 W11-2 1683081 446032 W13-10 1683013 448915 Y3 1683104 454527 ZP-12 1682352 444025 AM-2 1682714 434366 W112-2 1683083 446092 W13-11 1683134 448914 Y4 1683104 454527 ZP-13 1682552 444015 AM-3 168200 434309 W112-4 1683144 446089 W13-12 1683143 448914 Y4 1683104 454527 ZP-13 1682552 444015 AM-3 168200 434309 W112-5 1683147 446080 W13-13 1683115 44875 Y7 1682755 444042 ZP-1 1682754 444010 AM-5 1682762 434373 W112-5 1683147 446080 W13-13 1683115 44875 Y7 1682755 444042 ZP-1 1682754 447447 W13-14 1683124 448697 W1 1682762 444049 AM-5 1682762 434474 ZP-1 1682451 447447 W13-16 1683095 448655 Y9 1682762 454417 ZP-1 1682444 444010 AM-7 1682769 434478 ZP-1 1682404 447447 W13-16 1683095 448655 Y9 1682762 454417 ZP-1 7 1682444 444010 AM-7 1682769 434478 ZP-1 1682404 447444 W13-17 1683002 448655 Y9 1682762 454417 ZP-1 7 1682444 444010 AM-7 1682769 434478 ZP-1 1682404 447444 W13-17 1683002 448655 Y9 1682762 454417 ZP-1 7 1682404 447449 W13-15 1683009 448665 Y9 1682762 454417 ZP-1 7 1682404 44744 W13-17 1683002 448655 Y9 1682762 454417 ZP-1 7 1682404 44744 W13-17 1683002 448655 Y9 1682762 454417 ZP-1 7 1682404 44740 W13-16 1683004 448610 Z11 1682501 454010 ZP-2 1682504 443981 ZP-3 1682769 44749 W13-2 1682904 448610 Z11 1682501 454010 ZP-2 1682504 443981 ZP-3 1682769 44749 W13-2 1682904 448610 Z11 1682501 454010 ZP-3 1682504 443981 ZP-3 1682769 447489 W13-2 1682904 448610 Z11 1682501 454010 ZP-3 1682504 443981 ZP-3 1682207 447489 W13-2 1682904 448810 Z11 1682501 454010 ZP-3 1682504 443981 ZP-3 1682207 447489 W13-2 1682904 448810 Z11 1682501 454010 ZP-3 1682504 443981 ZP-3 1682207 447489 W13-2 1682904 448810 Z11 1682501 454010 ZP-3 1682504 443981 ZP-3 1682207 447489 W13-2 1682804 448810 ZP-3 1682207 448800 ZP-3 1682207 447489 W13-2 1682804 448800 ZP-3 1682207 448800 ZP-3 168	AL-4	1682851	434354 WL11-6	1683053	446159	WL2-8	1683013	452557	Y17	1683297	454533	ZD-1	1682391	
AM-1 1682714 434366 MI.12-2 1683071 446012 MI.3-10 1683112 448782 Y4 1683104 45457 ZD-12 1682563 444025 AM-2 1682714 434299 MI.12-3 1683083 446029 MI.3-11 16831314 448787 Y6 1683081 454507 ZD-13 1682552 444015 AM-3 1682800 434309 MI.12-5 1683144 446089 MI.3-12 1683148 448776 Y6 1682890 454547 ZD-14 1682552 4440409 AM-4 1682783 434402 ZD-16 1682141 447447 MI.3-14 1683121 448697 Y9 1682755 454444 ZD-15 1682404 444040 AM-5 1682783 434402 ZD-16 1682404 444040 AM-5 1682783 434402 ZD-16 1682404 444010 AM-6 1682783 434402 ZD-16 1682414 447447 MI.3-14 1683121 486857 Y9 1682755 454444 ZD-15 1682404 444010 AM-6 1682783 434402 ZD-16 1682404 444010 AM-6 1682783 434602 ZD-16 1682404 444010 AM-6 1682783 434602 ZD-16 1682404 444010 AM-6 1682783 AM-6 AM-6 1682783 434602 ZD-16 1682404 447010 AM-6 1682783 AM-6 AM-6 1682783 AM-6 AM-6 1682784 AM-7 AM-7 AM-7 AM-7 AM-7 AM-7 AM-7 AM-7	AL-5	1682857			446192	WL2-9					454532	ZD-10 ZD-11		
AM-2 1682715 434299 WIL2-3 1683083 446092 WIL3-11 1683134 44878 Y5 1683019 454507 AD-13 1682502 444013 AM-4 1682795 434373 WIL2-5 1683147 446016 WIL3-13 1683135 448755 Y7 1682755 454444 AD-15 1682502 4440494 AM-5 1682879 434402 ZP-1 1682414 44747 WIL3-14 16831215 448657 Y8 1682762 454417 AD-17 1682762 AM-6 1682783 434402 ZP-1 1682414 44747 WIL3-15 1683096 448665 Y9 1682762 454417 AD-17 1682444 444010 AM-6 1682783 434402 ZP-1 1682407 44749 WIL3-15 1683096 448665 Y9 1682762 454417 AD-17 1682444 444010 AM-6 1682783 AM-7 16				1683071	446032	WL3-10		448782	Y 4	1683104	454527	ZD-12	1682563	444028
AM-4   1682795   434373   ML12-5   1683147   446016   W13-13   1683135   448755   Y7   1682755   454442   ZD-15   1682502   444049   AM-5   168283   434402   ZF-1   1682414   447447   ML3-17   1683006   448665   Y9   1682769   454422   ZD-16   1682470   444032   A4401   ZB-15   1682402   A47047   ML3-15   1683006   448665   Y9   1682762   45417   ZD-17   1682402   443994   A47047   ML3-17   1683006   448665   Y9   1682762   45417   ZD-17   1682402   443994   A47047   ML3-17   1683006   448665   Y9   1682762   45417   ZD-17   1682402   443994   A47047   ML3-17   1683006   448665   Y9   1682767   45400   ZD-2   1682464   443951   A47047   ML3-18   1682906   448665   Z10   1682305   454012   ZD-2   1682502   443960   ZF-3   1682504   447047   ML3-17   1683006   448665   Z10   1682305   454012   ZD-2   1682502   443950   ZF-4   1682507   447047   ML3-18   1682906   448665   Z10   1682505   454012   ZD-3   1682502   443950   ZF-5   1682464   447047   ML3-17   1683006   448665   Z10   1682505   454012   ZD-3   1682502   443950   ZF-6   1682517   447047   ML3-20   168294   448950   Z12   1682666   454254   ZD-5   1682502   443960   ZF-7   1682507   44704   ML3-20   168294   448950   Z12   1682704   454254   ZD-7   1682645   443867   ZF-7   1682504   447868   ML3-21   1682863   4486518   Z15   1682700   454254   ZD-7   1682645   443962   ZF-9   1682468   447868   ML3-23   1682707   44784   ML3-23   1682707   448850   Z17   1682669   454250   ZD-9   1682645   443962   ZF-9   1682408   447868   ML3-23   1682707   448850   Z17   168267   448900   ZF-9   1682408   447868   ML3-23   1682707   448900   ZF-9   1682408   448900   ZF-9   1682408   447868   Z18   ZF-9   1682205   448900   ZF-9   1682408   448900   ZF-9   1682307   448000   ZF-9   1682408   448900   ZF-9   1682408   448900   ZF-9	AM-2	1682715	434299 WL12-3	1683083	446092	WL3-11	1683134	448784	Y5	1683019	454507	ZD-13 ZD-14		
AM-5 1682823 434402 ZF-1 1682414 447447 WL3-14 1683121 448697 Y8 1682749 454422 ZD-15 1682404 44010 AM-7 1682769 434378 ZF-11 1682407 447495 WL3-16 1683096 448665 Y9 1682762 454417 ZD-17 1682444 44010 AM-7 1682769 434378 ZF-11 1682407 447495 WL3-16 1683096 448653 Z1 1682804 453804 ZD-18 1682402 443994 ZF-2 1682444 447414 WL3-17 1683002 448652 Z10 1682804 453804 ZD-18 1682503 443951 ZF-3 1682483 447450 WL3-18 1682960 448610 Z11 1682866 454247 ZD-2 1682543 443951 ZF-5 168296 447479 WL3-2 1682924 448580 Z12 1682866 454247 ZD-2 1682500 443901 ZF-6 1682517 447474 WL3-2 1682924 448580 Z12 1682866 454247 ZD-2 1682500 443961 ZF-7 1682550 447494 WL3-2 1682863 448580 Z14 1682724 454254 ZD-5 1682590 443801 ZF-8 1682529 447484 WL3-2 1682863 448580 Z14 1682724 454254 ZD-7 1682647 443802 ZF-9 1682459 447488 WL3-2 1682863 448580 Z14 1682724 454254 ZD-7 1682647 443802 ZF-9 1682459 447488 WL3-2 1682863 448580 Z14 1682656 454280 ZD-9 1682645 443966 ZG-1 1682559 447488 WL3-2 1682865 448393 Z18 1682477 454106 ZE-10 1682484 446996 ZG-1 1682579 447546 WL3-2 1682667 44830 Z17 1682667 454256 ZD-1 1682442 445996 ZG-2 1682599 447546 WL3-2 1682667 44830 Z17 1682216 455890 ZE-3 168240 455902 ZG-3 1682579 447546 WL3-2 1682667 448507 Z1 1682278 45996 ZE-2 168240 A45982 ZG-4 1682570 447582 WL3-2 1682679 44850 Z2 1682216 455890 ZE-3 1682514 445990 ZG-4 1682570 447582 WL3-2 168278 48866 Z2 1682252 453975 ZE-5 1682695 446016 ZG-6 1682508 447589 WL3-3 1682919 48668 Z2 1682252 453975 ZE-5 1682591 446016 ZG-6 1682508 447589 WL3-3 1682919 48668 Z2 1682250 453817 ZE-9 168253 446022 ZG-8 1682408 447559 WL3-3 1682919 48668 Z2 1682250 453817 ZE-9 168253 446022 ZG-8 1682408 447589 WL3-3 1682919 48668 Z2 1682250 453817 ZE-9 1682550 446023 ZH-1 1682439 445598 WL3-3 1682919 48668 Z2 1682239 453973 WL3-3 1682919 48668 Z2 1682239 453973 WL3-3 1682919 48668 Z2 1682331 453938 WL3-3 1682919 48668 Z2 1682329 453973 WL3-3 1682919 48668 Z2 1682239 453973 WL3-3 1682919 48668 Z2 1682239 453973 WL3-3 1682919 48686 Z2 1682239 453973 WL3-3 1682919 48688 Z4 1682331 4539					446016	WL3-12		448776	¥7	1682755	454444	ZD-15	1682502	444049
AM-7 1682769 434378 ZF-11 1682407 447495 ML3-16 1683006 448633 Z1 1682084 453804 ZD-18 1682402 443951 ZF-2 1682444 447441 WL3-17 1683002 448625 Z10 1682953 454021 ZD-2 1682503 443960 ZF-4 1682510 447475 ML3-19 1682929 448590 Z12 1682666 454247 ZD-4 1682503 443960 ZF-6 1682517 447474 ML3-20 1682904 448590 Z12 1682666 454247 ZD-4 1682504 443981 ZF-7 1682557 447484 ML3-21 1682863 448518 Z13 1682702 454256 ZD-5 1682590 443901 ZF-8 1682529 447484 ML3-22 1682863 448518 Z15 1682700 454274 ZD-7 1682647 443881 ZF-9 16826529 447484 ML3-22 1682863 448518 Z15 1682700 454274 ZD-7 1682647 4438812 ZF-9 1682589 447484 ML3-22 1682863 44839 Z16 1682665 454260 ZD-9 1682645 443966 ZF-9 1682589 447519 ML3-25 1682663 44839 Z18 1682470 454274 ZD-7 1682464 445996 ZG-1 1682583 4475129 ML3-25 1682663 44839 Z18 1682477 454106 ZE-10 1682484 445026 ZG-2 1682599 447519 ML3-25 1682663 448295 Z19 1682216 453890 ZE-3 1682484 445996 ZG-3 1682570 447516 ML3-27 1682679 448507 Z21 1682216 453890 ZE-3 1682514 445970 ZG-4 1682570 447586 ML3-27 1682788 448566 Z22 1682216 453890 ZE-3 1682514 445970 ZG-6 1682508 447589 ML3-33 1682788 448566 Z22 1682225 543975 ZE-5 1682480 445997 ZG-6 1682508 447589 ML3-33 1682788 448566 Z22 1682225 543975 ZE-5 1682593 446016 ZG-6 1682470 447546 ML3-29 1682788 448566 Z22 1682225 543975 ZE-5 1682593 446017 ZG-6 1682508 447589 ML3-31 1682788 448566 Z22 1682225 543975 ZE-5 1682593 446017 ZG-6 1682478 447596 ML3-31 1682788 448566 Z22 1682225 543975 ZE-5 1682590 446017 ZG-7 1682473 445358 ML3-33 1682919 448688 Z4 1682208 453811 ZE-9 1682550 446023 ZH-1 1682439 445529 ML3-33 1682919 448680 Z4 1682302 453973 ZH-2 1682437 445358 ML3-33 1682919 448688 Z4 1682302 453973 ZH-2 1682437 445358 ML3-33 1682919 448688 Z4 1682302 453973 ZH-2 1682437 445358 ML3-33 1682919 448688 Z4 1682302 453973 ZH-3 1682437 445358 ML3-33 1682919 448688 Z4 1682302 453973 ZH-3 1682437 445358 ML3-36 1682907 448680 Z8 1682307 453978 ZH-4 1682439 445529 ML3-35 1682919 448688 Z4 1682302 453973 ZH-2 1682437 445358 ML3-36 1682919 448688 Z4 1682302 453973 ZH-2 1	AM-5	1682823	434402 ZF-1	1,682414	447447	WL3-14	1683121	448697	Y8		454422	2D-16	1682470	
2F-2 1682444 447441 ML3-17 1683002 448625 Z10 1682385 454021 ZD-2 1682454 443951 ZF-3 1682483 447450 WL3-18 1682929 448590 Z12 1682606 454247 ZD-4 1682503 443960 ZF-6 1682517 447474 WL3-20 1682929 448590 Z12 1682686 454247 ZD-4 1682502 443928 ZF-5 1682496 447475 WL3-20 1682929 448590 Z12 1682686 454247 ZD-4 1682502 443901 ZF-6 16825517 447474 WL3-20 1682929 448580 Z1-1 1682702 454254 ZD-5 1682590 443901 ZF-6 1682550 447488 WL3-22 1682863 448588 Z1-1 1682702 454254 ZD-5 1682594 443882 ZF-8 1682592 447498 WL3-22 1682863 448518 Z1-5 1682700 454274 ZD-7 1682647 443882 ZF-9 1682485 447488 WL3-22 1682863 448518 Z1-5 1682700 454274 ZD-7 1682647 443882 ZF-9 1682485 447488 WL3-22 1682863 448518 Z1-5 1682669 454252 ZE-1 1682464 445026 ZG-2 1682594 447519 WL3-22 1682655 448339 Z1-8 1682477 454106 ZE-10 1682484 446026 ZG-2 1682597 447519 WL3-25 1682663 448295 Z1-9 1682473 454036 ZE-2 1682480 445982 ZG-3 1682579 447514 WL3-22 1682269 448507 Z2-1 1682278 453980 ZE-3 1682514 445970 ZG-5 1682520 447512 WL3-22 1682269 448507 Z2-1 1682278 453980 ZE-3 1682514 445970 ZG-5 1682520 447512 WL3-22 1682788 448507 Z2-1 1682278 453980 ZE-3 1682514 445970 ZG-5 1682520 447512 WL3-22 1682788 448507 Z2-1 16822278 453980 ZE-3 1682514 445970 ZG-5 1682520 447512 WL3-29 1682788 448507 Z2-1 16822278 453980 ZE-3 1682514 445970 ZG-5 1682520 447512 WL3-29 1682788 448616 Z2-1 1682225 453875 ZE-5 1682591 446016 ZG-6 1682678 447599 WL3-3-2 1682814 248616 Z2-1 1682208 453830 ZE-7 1682633 446022 ZG-8 1682488 447559 WL3-3-3 1682814 448618 Z2-1 1682238 453788 ZE-4 1682550 445023 ZG-8 1682484 445293 WL3-3-5 1682814 44800 Z2-1 1682238 453791 ZE-6 1682657 446017 ZG-7 1682413 445358 WL3-3-5 1682919 448648 Z2-1 1682307 453948 ZE-9 1682550 446022 ZG-8 1682484 445589 WL3-3-5 1682919 448648 Z2-1 1682307 453948 ZE-9 1682550 446022 ZG-8 1682439 445239 WL3-3-5 1682919 448648 Z2-1 1682307 453948 ZE-9 1682550 446022 ZG-8 1682343 445358 WL3-3-5 1682919 448648 Z2-1 1682307 453948 ZE-9 1682550 446022 ZG-8 1682343 445318 WL3-3-5 1682919 448648 Z2-1 1682307 453948 ZE-9 1682	AM-6	1682783	434441 ZF-10 434378 ZF-11				1683096	448633	21	1682762	453804	ZD-18	1682402	443994
Tender	14.	1002,03	2 F-2	1682444	447441	WL3-17	1683002	448625	210	1682385	454021	ZD-2	1682454	443951
TF-5									Z11 Z12	1682501	454101	ZD-3 ZD-4		
Tef-6						WL3-2		448818	213	1682702	454256	2D-5	1682590	443901
\$\frac{1}{2F-8}\$ \frac{1}{1682529}\$ \frac{447494}{447488}\$ \frac{1}{1632610}\$ \frac{1}{448473}\$ \frac{1}{2}16\$ \frac{1}{1682665}\$ \frac{454260}{454262}\$ \frac{7}{2F-9}\$ \frac{1}{1682645}\$ \frac{447494}{447488}\$ \frac{1}{1682677}\$ \frac{448430}{448339}\$ \frac{1}{218}\$ \frac{1}{1682669}\$ \frac{454262}{458940}\$ \frac{7}{2E-1}\$ \frac{1}{1682484}\$ \frac{44596}{445026}\$ \frac{7}{2G-2}\$ \frac{1}{1682599}\$ \frac{447519}{447519}\$ \frac{1}{1632-25}\$ \frac{1}{1682669}\$ \frac{448439}{448339}\$ \frac{7}{218}\$ \frac{1}{1682477}\$ \frac{454106}{454016}\$ \frac{7}{2E-1}\$ \frac{1}{1682484}\$ \frac{44596}{445970}\$ \frac{7}{2G-3}\$ \frac{1}{1682599}\$ \frac{447519}{447519}\$ \frac{1}{1632-27}\$ \frac{1682669}{1682669}\$ \frac{448507}{448510}\$ \frac{7}{22}\$ \frac{1}{1682477}\$ \frac{454106}{454006}\$ \frac{7}{2E-1}\$ \frac{1}{1682484}\$ \frac{445970}{445970}\$ \frac{7}{2G-4}\$ \frac{1}{1682570}\$ \frac{447519}{447512}\$ \frac{1}{168276}\$ \frac{448507}{448510}\$ \frac{7}{221}\$ \frac{1}{1682278}\$ \frac{453980}{453980}\$ \frac{7}{2E-3}\$ \frac{1}{16825513}\$ \frac{445970}{445970}\$ \frac{7}{2G-5}\$ \frac{1}{16825200}\$ \frac{447582}{447582}\$ \frac{1}{168278}\$ \frac{448507}{448610}\$ \frac{7}{221}\$ \frac{1}{1682278}\$ \frac{453980}{453990}\$ \frac{7}{2E-5}\$ \frac{1}{1682553}\$ \frac{445970}{445970}\$ \frac{7}{2G-5}\$ \frac{1}{1682682520}\$ \frac{447598}{447598}\$ \frac{1}{1682781}\$ \frac{448507}{448610}\$ \frac{7}{221}\$ \frac{1}{1682278}\$ \frac{453980}{453910}\$ \frac{7}{2E-5}\$ \frac{1}{1682553}\$ \frac{44599}{445993}\$ \frac{1}{1682480}\$ \frac{448510}{448610}\$ \frac{7}{221}\$ \frac{1}{1682278}\$ \frac{453980}{453910}\$ \frac{7}{2E-5}\$ \frac{1}{1682553}\$ \frac{44599}{445991}\$ \frac{448616}{447598}\$ \frac{1}{1682211}\$ \frac{453910}{453910}\$ \frac{7}{2E-5}\$ \frac{1}{1682675}\$ \frac{446017}{446017}\$ \frac{1}{1682490}\$ \frac{448811}{468210}\$ \frac{1}{1682266}\$ \frac{453811}{453810}\$ \frac{7}{2E-9}\$ \frac{1}{1682633}\$ \frac{446022}{446022}\$ \frac{1}{1682302}\$ \frac{453811}{453910}\$ \frac{7}{2E-9}\$ \frac{1}{1682550}\$ \frac{446022}{446022}\$ \frac{1}{1682302}\$ \frac{453810}{453930	ľ		ZF-6		447474	WL3-20		448568	Z14 215					443867
Tell	l		ZF-8	1682529	447494	WL3-21		448473	216	1682685	454280	ZÐ-9	1682645	443962
2G-2 1682599 447519 WL3-25 1682639 448952 Z19 1682216 453980 ZE-3 16822514 445970 ZG-3 1682579 47546 WL3-27 1682679 448507 Z21 1682278 453988 ZE-4 1682553 445970 ZG-5 1682520 47582 WL3-29 1682788 448507 Z21 1682278 453988 ZE-4 1682553 445970 ZG-6 1682508 447593 WL3-3 1682072 448681 Z2 1682225 453975 ZE-5 1682591 446016 ZG-7 1682472 447598 WL3-30 1682842 448616 Z24 1682208 453910 ZE-6 16825675 446017 ZG-7 1682472 447598 WL3-30 1682842 448616 Z24 1682108 453930 ZE-7 1682675 446017 ZG-9 1682515 447559 WL3-32 1682291 448634 Z25 1682208 453830 ZE-7 1682633 446022 ZG-8 1682488 47559 WL3-32 1682904 448615 Z3 1682208 453810 ZE-9 1682596 446022 ZG-8 1682237 447559 WL3-32 1682904 448648 Z4 1682238 453817 ZE-9 1682550 446023 ZH-1 1682392 445273 WL3-33 1682919 448648 Z4 1682238 453818 ZE-9 1682550 446023 ZH-1 1682392 445273 WL3-35 1682919 448648 Z4 1682238 453818 ZE-9 1682550 446023 ZH-1 1682439 445293 WL3-35 1682918 448678 Z5 1682002 453791 ZH-3 1682443 445358 WL3-35 1682919 448748 Z7 1682331 453938 WL3-35 1682918 448800 Z8 1682302 453831 ZH-4 1682439 445293 WL3-35 1682981 448800 Z8 1682302 453831 ZH-4 1682439 445293 WL3-35 1682918 448800 Z8 1682302 453831 ZH-4 1682439 445293 WL3-35 1682981 448800 Z8 1682307 453948 WL3-35 1683071 448801 ZH-3 1683103 448800 Z8 1682307 453948 WL3-35 1683071 448801 ZH-3 1683107 448801 Z8 1682307 453948 WL3-37 1683107 448801 ZH-3 1683107 448801 Z8 1682302 453973 WL3-3 1683071 448801 Z8 168307				1682485	447488	WL3-23		448430	Z17		454252	ZE-10	1682442	
Tell	l		%G-1 %G-2	1682543	447519	WL3-24 WI.3-25	1682693	3 448295 3 448295	Z19	1682373	454036	ZE-2		445982
ZG-5 1682520 447582 W13-29 1682788 44881 Z22 1682225 453975 ZE-5 1682591 446017 ZG-6 1682508 447593 W13-30 1683073 448814 Z23 1682121 453910 ZE-6 1682633 446017 ZG-7 1682472 447598 W13-30 1682842 448616 Z24 1682108 453830 ZE-7 1682633 446022 ZG-8 1682488 47559 W13-31 1682871 448615 Z3 1682208 453811 ZE-9 1682596 446022 ZG-9 1682518 475529 W13-32 16822904 448615 Z3 1682226 453817 ZE-9 1682550 446022 ZH-1 1682392 445273 W13-33 1682919 448648 Z4 1682238 453788 ZH-2 1682373 445311 W13-34 1682936 448678 Z5 1682302 453781 ZH-3 1682443 445358 W13-35 1682919 448709 Z6 1682322 453831 ZH-4 1682439 445293 W13-36 1682923 448748 Z7 1682331 453938 ZH-4 1682439 45293 W13-36 1682981 448800 Z8 1682307 453948 W13-6 1683007 448850 Z9 1682329 453973 W13-6 1683010 448859 W13-7 1683117 448851 W13-8 1683101 448812			ZG-3	1682579	447546	WL3-27	1682679	448492	Z2	1682216	453890	ZE-3	1682514	445970
ZG-6 1682508 447593 Wij3-3 1682073 448841 Z23 1682121 453910 ZE-6 1682675 446017 ZG-7 1682472 447598 Wij3-30 1682842 448616 Z24 1682108 453830 ZE-7 1682633 446022 ZG-8 1682688 477559 Wij3-31 1682871 448634 Z25 1682083 453811 ZE-8 1682596 446022 ZG-9 1682515 447529 Wij3-32 1682919 448615 Z3 1682226 453817 ZE-9 1682550 446023 ZH-1 1682392 445273 Wij3-33 1682919 448648 Z4 1682238 453788 ZH-2 1682373 445331 Wij3-34 1682919 448768 Z5 1682322 453791 ZH-3 1682443 445358 Wij3-35 1682919 449709 Z6 1682322 453831 ZH-4 1682493 Wij3-35 1682919 449709 Z6 1682322 453831 ZH-4 1682493 Wij3-3 1682919 449709 Z6 1682331 43938 Wij3-6 1682919 449709 Z6 1682321 453938 Wij3-6 1682919 448800 Z8 1682307 453948 Wij3-5 1682919 Wij3-5 1682919 448800 Z8 1682307 453948 Wij3-6 1683107 448859 Wij3-6 1683107 448859 Wij3-6 1683107 448859 Wij3-7 1683117 448851 Wij3-8 1683107 448851	l				447571	WL3-28		5 448507 3 448568	Z21 Z22	1682278	453988	ZE-5		446016
ZG-8 1682468 447559 WI3-31 1682871 448634 Z25 1682083 453811 ZE-8 1682596 446022 ZG-9 1682515 447529 WI3-32 1682904 448615 Z3 1682226 453817 ZE-9 1682550 446023 ZH-1 1682392 45273 WI3-33 1682919 448648 Z4 1682238 453788 ZH-2 1682373 445331 WI3-33 1682919 448768 Z5 1682302 453791 ZH-3 1682443 445358 WI3-35 1682919 448709 Z6 1682322 453791 ZH-4 1682439 445293 WI3-36 1682923 448748 Z7 1682322 453831 ZH-4 1682439 445293 WI3-36 1682923 448748 Z7 168231 453938 WI3-37 1682981 448800 Z8 1682307 453948 WI3-4 1683097 448850 Z9 1682329 453973 WI3-5 1683071 448850 WI3-6 1683103 448859 WI3-7 1683117 448851 WI3-7 1683117 448851			ZG-6	1682508	447593	WL3-3	1683073	3 449841	223	1682121	453910	ZE-6	1682675	446017
7G-9 1682515 447529 WIJ-3-3 1682914 448615 Z3 1682226 453817 ZE-9 1682550 446023 ZH-1 1682392 445273 WIJ-3-3 1682919 448648 Z4 1682238 453788 ZH-2 1682237 445311 WIJ-3-3 1682916 448678 Z5 1682302 453791 ZH-3 1682443 445358 WIJ-3-5 1682919 448709 Z6 1682322 453831 ZH-4 1682499 445293 WIJ-3-3 1682921 448748 Z7 1682331 453938 WIJ-5 1682307 453938 WIJ-5 1682307 453948 WIJ-5 1682307 453948 WIJ-5 1683103 448859 WIJ-5 1683103 448859 WIJ-5 1683103 448859 WIJ-5 1683107 448812	ľ							448616	224 225	1682108	453830	ZE-7 ZE-8	1682596	446022
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ZH-3 1682443 445358 WL3-35 16822919 449709 Z6 1682322 453831 ZH-4 1682439 445293 WL3-36 1682923 448748 Z7 1682331 453938 WL3-37 1682981 448800 Z8 1682307 453948 WL3-4 1683097 448850 Z9 1682329 453973 WL3-5 1683071 448903 WL3-6 1683103 448859 WL3-7 1683117 448851 WL3-8 1683102 448812	1		ZH-1	1682392	445273	ML3-33	1682919	448648	Z4	1682238	453788			
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WL3-9 1683109 448800 LAST DATE IN FIELD: 12/15/2009						WL3-8	1683102	2 448812						
						WL3-9	1683109	9 448800		LAST DAT	e in fi	ELD: 12	2/15/2009	

PROJECT TITLE.
SPECIFIC FURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION
AND THREATENED WAD ENDANGERED SPECIES
PROGRESS ENERGY FLORIDA
LEVY-CRYSTAL RIVER ENERGY COMPLEX (LCR)
TRANSMISSION LINE
CUTTUS COUNTY, FORTIGE

N				DRAWN BY: P DATE: 12/16				
	DATE	BY	DESCRIPTION	JOB No. 6374090435	SC.	ALE:	SHT. <u>16</u> OF <u>17</u>	
			ISION PARED FOR:	ORAWHG	NAME: PH	P Transmis	ssion Line.dwg	

MACTEC Engineering & Connuiting, Inc.
150 North John Young Parkway Orlando, Portde 32804-2820
Phone: 407-522,7570. Risc, 407-522,7578.
CERTIFICATE OF AUTHORIZATION: LB 4980.



## SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION AND THREATENED AND ENDANGERED SPECIES

# PROGRESS ENERGY FLORIDA LEVY to CRYSTAL RIVER ENERGY COMPLEX (LCR) TRANSMISION LINE

LOCATED IN
CITRUS COUNTY, FLORIDA

			•			
GOPHER TORTO			K	TETLAND	SQUARE FEET	ACREAGE
Desc	Northing	Easting	1		5227	0.12
GT NO ID	1683838	460955	2		124582	2.86
GT NO ID	1603465	460919	4		402	0.01
GT NO ID GT NO ID	1682056 1682777	460680 453040	5 6		1425 18295	0.03 0.42
GT NO ID	1682743	451359	. 7		607	0.01
GT NO ID	1682816	451252	8		13068	0.30
GT NO ID	1682774	451111	9		9583	0.22
GT NO ID	1682939	450675		.0	6098	0.14
GT 1	1682174	453370		1	10454	0.24
GT 10 GT 11	1682934 1682936	451296 450700		3	6098 27878	0.14 0.64
GT 12	1682939	450674		4	6098	0.14
GT 13	1682942	450471		5	527	0.01
GT 14	1682935	450370		16	10890	0.25
GT 15	1682938	450166		.7	6045	0.14
GT 18	1682950 1682948	450452 450561		. 8 . 9	11326	0.26 3.07
GT 19 GT 2	1682180	453338		22	133729 254390	5.84
GT 20	1682968	450651		23	60984	1.40
GT 3	1682170	453417		3624	159865	3.67
GT 4	1682182	453429	,	ΑA	13939	0.32
GT 5	1682188	453463		AB	496148	11.39
GT 5	1682799	453161 453472	,	aj Ak	2583 20343	0.05 0.47
GT-6 GT-7	1682158 1678335	464631		AL.	22968	0.47
GT 6	1682159	453474		AM	7771	0.18
GT 6	1.682754	453302		AO	11901	0.27
GT 7	1682155	453479		AP	656449	15.07
GT 7	1682720	452915		AN	1.445564	33.19
GT 8 GT 9	1682704 1682950	451190 451147		AQ AR	396396 20473	9.10 0.47
GT 9 GTAA1	1684928	458720		AS	42689	0.98
GTAA2	1682880	460114		AT	2298531	52.77
GT NO ID	1.682860	450088		AU	465221	10.68
GT NO ID	1682866	449805		AV	4356	0.10
GT NO ID	1682878	444825 464453		AW AX	25265	0.58 0.44
GTA1 GT-1	1678523 1682174	453367		AY	19166 45302	1.04
GT-2	1678422	464418		AZ	20038	0.46
GTA2	1602180	453337		ВА	1307	0.03
GT-21	1682793	449931		BB	9148	0.21
GT-22	1682896	449007		BC	16117	0.37
GT-23 GT-24	1682815 1682954	448691 448825		BD Be	4356 16117	0.10
GT-25	1682944	448887		BF	27878	0.64
GT-26	1682945	448888		BG	2178	0.05
GT-27	1682950	447891		вя	9583	0.22
GT-28	1682945	447089		CS K	300128	6.89
GT-29 GT-3	1682939 1678469	447268 464392		CS L CS M	1307 8276	0.03 0.19
GTA3	1682171	453408		CS S	13939	0.32
GT-30	1682947	447294		CS T	8276	0.19
GT-31	1682946	447333		CS U	8276	0.19
GT-32	1682945	447369		CS V	4356	0.10
GT-33	1682947	447467		CS W	12197	0.28
GT-34 GT-35	1682952 1682938	447469 447699		20/21 X	102366 18731	2.35 0.43
GT-36	1682911	447764		Ŷ	9583	0.22
GT-37	1682841	446601		Ž	37026	0.85
GT-38	1682856	446567	:	ZA.	56192	1.29
GTA4	1682167	460291		ZB	489	0.01
GT-4	1682169	460287		ZG	4792	0.11
GT4 GT-4	1678335 1682182	464600 453424		ZC ZD	4356 19602	0.10 0.45
GT5	1678103	465002		ZDA	436	0.43
GT6	1678114	465012		ZE	9583	0.22
GT-7	1682191	453463	:	ZF	3920	0.09
GT-8	1682840	444771		ZH	3485	0.08
GT-71	1682711	438922				
INDIGO SNAKE	1.002042	443929				

LAST DATE IN FIELD: 12/15/2009

PROJECT TITLE:
SPECIFIC PURPOSE SURVEY OF WETLAND JURISDICTIONAL DELINEATION
AND THREATENED AND ENDANGERED SPECIES

PROGRESS ENERGY FLORIDA
LEVY-CRYSTAL RIVER ENERGY COMPLEX (LCR)
TRANSMISSION-LINE
CUITUS COUNTY, Florida

DRAWN BY: P.E.W.
DATE: 12/16/09
DATE: 12/16/09
DATE: 12/16/09
DATE: 12/16/09
DATE: 17/
DATE BY DESCRIPTION

OF 17

REVISION

PREPARED FOR:

75596013 174.38

PREPARED BY:

MACTEC

MACTEC Bigmenting & Consulting, Inc.

4150 Horith John Young Partney: Orlando, Horida 308044-2820

Phone: 407.522-7570 Fac: 407.522-7578

CERTIFICATE OF AUTHORIZATION: LB 6969



TOTAL

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date:	11/2/09	
Applicant/Owner: Progress Energy Florida, Inc.		State: FL		Sampling Point:_	1	
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range	: _31 17S 17E			
Landform (hillslope, terrace, etc.):N/A		Local relief (concave, conv	ex, none): none	Slo	pe (%):	
Subregion (LRR or MLRA): LRR U	Lat: <u>28.96270</u>	09 Long: -82.63	33678	Date	um: <u>WGS84</u>	
Soil Map Unit Name: Redlevel fine sand	•			Freshwater Pond		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in R	Remarks)	
Are Vegetation, Soil,	or Hydrology		Are circumstances		No	
	or Hydrology		(If needed, explain	any answers in Re	emarks)	
SUMMARY OF FINDINGS - Attach sit	te map showing sampli	ing point locations, t	ransects, impo	rtant features,	etc.	
Hydrophytic Vegetation Present?	YesNo					
Hydric Soil Present?	Yes No	Is the Sampled Area w	rithin a Wetland?	Yes/_No		
Wetland Hydrology Present?	Yes ✓ No					
Remarks:		•				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two	o required)	
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil	Cracks (B6)		
✓ Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Veg	getated Concave Si	urface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim Li	ines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Buri	rows (C8)		
Drift Deposits (B3)	Presence of Reduced In	ron (C4)	Saturation V	isible on Aerial Ima	gery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction i					
Iron Deposits (B5)	Thin Muck Surface (C7)	. ,	Shallow Aqu			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema		FAC Neutral			
Field Observations:			1			
Surface Water Present?	Yes No	Depth (inches): 0-36				
Water Table Present?	Yes No		· ·			
Saturation Present?	Yes No		Wetland			
(includes capillary fringe)	NO	_ Depart (menes)	Hydrology Present?	Yes ✓ No		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:	r resent:	163 - 10		
[	g, p, p					
Remarks:						
İ				•		
					•	

VEGETATION - Use scientific na	mes or plants				mpling Point:	
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status			
1. 2.	-			Number of Dominant Species That Are OBL, FACW, or FAC:	<u>1</u>	(A)
3.				Total Number of Dominant		
4.	-			Species Across All Strata:	<u>1</u>	(B)
5.				Percent of Dominant Species		
6.				That Are OBL, FACW, or FAC:	100.00	(A/B)
7.				Prevalance Index worksheet:		
	- 0	= Total Cove		Total % Cover of:		
Sapling Stratum (Plot size:		- Total Cove		OBL species	Multiply by: x1=	
Salix spp.	/ 25	yes	FACW	FACW species	x2=	
2.		yes	PACVV	FAC species		_
3.					_x3=	
				FACU species	_x4=	
4.				UPL species	_x5=	
5.				Column Totals:	_(A)	(B)
6.						
7.				Prevalance Index = B/A =		
		= Total Cove	1	Hydrophytic Vegetation Indic	ators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is 50%		
1.				Prevalence Index is ≤3.0	) <sup>1</sup>	
2.				Problematic Hydrophytic	: Vegetation1 (Ex	(plain)
3.						
4.				<sup>1</sup> Indicators of hydric soil and we	etland hydrology r	must
5.				be present, unless disturbed or		
6.				Definitions of Vegetation Stra	nta:	
7.				1		
Herb Stratum (Plot size:) 1.	0	= Total Cove	r	Tree- Woody plants, excluding w approximately 20 ft (6m) or more cm) or larger in diameter at breas	in height and 3 in	. (7.6
2.				Sapling- Woody plants, excludin	a woody vines	
3.				approximately 20 ft (6m) or more		s than 3
4.				in. (7.6 cm) DBH.	Ğ	
5.				Shrub- Woody plants, excluding	woody vines	
6.	1	•		approximately 3 to 20 ft (1 to 6 m		
7.	-					
8.				Herb- All herbaceous (non-wood herbaceous vines, regardless of		
9.				plants, except woody vines, less		
10.				m) in height.	approximate	, 011(1
11.				Woody vine- All woody vines, re-	gardlage of hoight	
12.				Woody ville- All woody villes, re	gardiess of neight	
12.				4		
Woody Vine Stratum (Plot size: 1.	)	= Total Cove				
2.				†		
3.						
4.				Liudeanhudia		
1.				Hydrophytic	/ N-	
5						
5.	0	= Total Cove		Vegetation Present? Yes	No	

County/soil: Citrus- Redlevel SOIL

SOIL						Sa	impling Point:1
	scription: (Describe to the o	lepth needed to doc	ument the indica	tor or confirm the ab	sence of indicators.		<del></del>
Depth	Matrix	•	Redox Features	S		•	
(inches)	Color (moist) %	Color (moist)	% Тур	e, Foc <sub>s</sub>	Texture	Rema	rks
0-3	10 YR 3/3	<del></del>				dark brown fine sand	
3-7	10 YR 4/2					dark grayish brown fine sand	
7-15	10 YR 5/8					yellowish brown fine sand	
					few medium		
15-26	7.5 YR 5/8	5 YR 5/8			distinct mottles	strong brown fine sand	
	·	-				<del> </del>	
Type: C=C	Concentration, D=Depletion, F	RM=Reduced Matrix, 0	CS=Covered or Co	ated Sand Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.	
	il Indicators:	,		<del></del>		Indicators for Problematic Hyd	fric Soils 3:
Histol (			Polyvalue Bel	ow Surface (S8) (LRR		1 cm Muck (a9) (LRR O)	
	Epidon (A2)	•		face (S9) (LRR S, T, I		2 cm Muck (A10) (LRR S)	
	Histic (A3)	•		Mineral (F1) (LRR O)		Reduced Vertic (F18) (outs	ide MLRA 150A, B)
	gen Sulfide (A4)	•	Loamy Glever	, , , ,		Piedmont Floodplain Soils (F	
	ied Layers (A5)		Depleted Mat			Anomalous Bright Loamy So	
Organi	ic Bodies (A6) (LRR P, T, U)		Redox Dark S	Surface (F6)		(MLRA 153B)	(/
5 cm N	Mucky Mineral (A7) (LRR P,T,	.un	Depleted Dari	k Surface (F7)		Red Parent Material (TF2)	
	Presence (A8) (LRR U)	-,	Redox Depre			Very Shallow Dark Surface	(TE12) (LRR T. U)
1							(11 12) (Ellit 1, O)
	Muck (A9) (LRR P,T)		Marl (F10) (L	•		Other (Explain in Remarks)	
ı— ·	ted Below Dark Surface (A11)			hric (F11) (MLRA 151)			
Thick [	Dark Surface (A12)			ese Masses (F12) (LRI		3Indicators of hydrophytic vegeta	ition and wetland
Coast	Prairie Redox (A16) (MLRA	150A)	Umbric Surfa	ce (F13) (LRR P, T, U	)	hydrology must be present, unles	ss disturbed or
Sandy	Mucky Mineral (S1) (LRR O,	S)	Delta Orchric	(F17) (MLRA 151)		problematic.	
Sandy	Gleyed Matrix (S4)	•	Reduced Vert	tic (F18) (MLRA 150A	, 150B)		
	Redox (S5)		Piedmont Flo	odplain Soils (F19) (Mi	LRA 149A)		
	ed Matrix (S6)	,		right Loamy Soils (F20		, 153D)	
	Surface (S7) (LRR P, S, T, U)					•	
	e Laver (If observed):	'			T		
	Type:						
	Depth (inches):				Hydric Soil Preser	nt? Yes ✓ No	
Remarks:	Deptir (inches).				Triyane Con Freser	163 160 ,	<del></del>
Inchiaiks.							
i							
			•				
						•	
1							
1							

Project/Site: Levy Baseload Transmission Progra	ım. LCR	City/County: Citrus		_ Sampling Date:	11/2/09
Applicant/Owner: Progress Energy Florida, Inc.		State: FL			
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range			
•	\	Local relief (concave, con			pe (%):
Subregion (LRR or MLRA): LRR U		· ·	• •		— —
Soil Map Unit Name: Boca fine sand				: Freshwater Pond	
Are climatic / hydrologic conditions on the site type	pical for this time of year?	Yes ✓	No	(If no explain in F	Remarks)
	or Hydrology		Are circumstance		sNo
	or Hydrology			n any answers in Re	emarks)
SUMMARY OF FINDINGS - Attach sit			•	•	•
Hydrophytic Vegetation Present?	YesNo				<u>,</u>
Hydric Soil Present?	YesNo	Is the Sampled Area v	vithin a Wetland?	YesNo	
Wetland Hydrology Present?	YesNo				
Remarks:					
HYDDOLOGY					
HYDROLOGY			Socondon Indian	ors (minimum of tw	no roquirod\
Wetland Hydrology Indicators:	shoots all that analy.				<u>o requirea)</u>
Primary Indicators (minimum of one is required; o		(DO)	Surface Soil	• •	turfood (BR)
Surface Water (A1)	Water-Stained Leaves	(89)	-	getated Concave S	ипасе (вв)
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa		
Saturation (A3)	Marl Deposits (B15) (LI	•	Moss Trim L	, ,	
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)	Presence of Reduced I	ron (C4)	Saturation V	isible on Aerial Ima	igery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction	in Tilled Soils (C6)	Geomorphic	Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7	")	Shallow Aqu	uitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	FAC Neutra	l Test (D5)	
Field Observations:			:		
Surface Water Present?	Yes No		_		
Water Table Present?	Yes No	Depth (inches):	- Wetland		
Saturation Present?	Yes No	_ Depth (inches):6	- Hydrology		
(includes capillary fringe)			Present?	Yes <u>✓</u> No	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previou	s inspections), if available:			
Remarks:					

VEGETATION - Use scientific na	mes of plants				Sampling P	oint:	2
	Absolute %	Dominant	Indicator	Dominance Test Works	heet:		
Tree Stratum (Plot size:)	Cover	Species?	Status				
1.				Number of Dominant Spe		<u>5</u>	(A)
2.				That Are OBL, FACW, or	FAC:	<u> </u>	(/ 1)
3.				Total Number of Domina		<u>5</u>	(B)
4.				Species Across All Strata	3:	<u> </u>	(5)
5.				Percent of Dominant Spe	ecies .	100.00	(A/B)
6.				That Are OBL, FACW, or	FAC:	100.00	(,,,,
7.				Prevalance Index works	sheet:		
	0	= Total Cove	er	Total % Cover of:	<u>Mult</u>	tiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=		_
Salix spp.	35	yes	FACW	FACW species	x2=		_
2.				FAC species	x3=		_
3.				FACU species	x4=		_
4.				UPL species	x5=		
5.				Column Totals:	(A)		(B)
6.							
7.				Prevalance Index =			
	35	= Total Cove	91	Hydrophytic Vegetation	Indicators:		
Shrub Stratum (Plot size:	_)			✓ Dominance Test i	s 50%		
1.				Prevalence Index	is $\leq 3.0^{1}$		
2.				Problematic Hydro	ophytic Vegetat	ion¹ (Exp	lain)
3.							
4.				Indicators of hydric soil	and wetland hy	drology m	nust
5.				be present, unless distur		atic.	
6.				Definitions of Vegetation	on Strata:		
7.							
	0	= Total Cove	er	Tree- Woody plants, exclu	iding woody vine	es,	
Herb Stratum (Plot size:)				approximately 20 ft (6m) o	-		(7.6
Phyla nodiflora	50	yes	FACW	cm) or larger in diameter a	at breast height (	(DBH).	
2. Centella asiatica	25	yes	FACW	Sapling- Woody plants, e.	xcluding woody	vines,	
<ol><li>Typha spp.</li></ol>	25	yes	OBL	approximately 20 ft (6m) o	r more in height	and less	than 3
Andropogon glomeratus	20	yes	FACW	in. (7.6 cm) DBH.			
<ol><li>Rhynchospora coloratá</li></ol>	20	yes	OBL	Shrub- Woody plants, exc			
Eupatorium capillifolium	15	no	FACU	approximately 3 to 20 ft (1	to 6 m) in heigh	ıt.	
7. Laportea sp.	15	no	FACW	Herb- All herbaceous (nor	n-woody)plants,	including	
Pluchea spp.	10	no	FACW	herbaceous vines, regardl			-
9. Euthamia spp.	10	no	FAC	plants, except woody vines	s, less than appr	roximately	3 ft (1
10. Eustachys glauca	10	no	FACW	m) in height.			
11.				Woody vine- All woody vi	nes, regardless	of height.	
12.				1			
	200	= Total Cove	er				
Woody Vine Stratum (Plot size:	)						
1.				1			
2.							
3.							
4.				Hydrophytic			
5.				Vegetation Present?	Yes <u>√</u>	No	
	0	= Total Cove	er				
Remarks: (If observed, list morph		,					
Percent cover estimates based or	n meandering s	curvey of the h	rnader cor	mmunity			

County/soil: Citrus- Boca SOIL

OIL Profile De	scription: (Describe to the d	enth needed to do	ument the indicator or o	onfirm the ab	sence of indicators	Sampling Point:
epth	Matrix	opar necueu to uot	Redox Features	uje au	outles of mulcators.	,
nches)		Color (moist)		Loc²	Texture	Remarks
ries)	Color (moist) % 10 YR 4/2	10 YR 3/1	% Type		few fine roots	dark grayish brown fine sand
	10 TR 4/2	10 1 K 3/1				dark grayish brown line sand
					few medium	
		10 YR 6/6; 10			distinct mottles	
20	10 YR 6/4	YR 7/2			and streaks	light yellowish brown fine sand
					common medium	
-39	10 YR 7/4	10 YR 6/6			distinct mottles	very pale brown fine sand
-80	10 YR 7/3					very pale brown fine sand
	10 111 110					very paic brown line sails
pe: C≃0	Concentration, D=Depletion, RI	M=Reduced Matrix,	CS=Covered or Coated S	and Grains.	2Location: PL=Por	e Lining, M=Matrix.
iric So	il Indicators:					Indicators for Problematic Hydric Soils 3:
Histol	(A1)		Polyvalue Below Sur	face (S8) (LRR		1 cm Muck (a9) (LRR O)
	Epidon (A2)		Thin Dark Surface (S	, , ,		2 cm Muck (A10) (LRR S)
_	Histic (A3)		Loamy Mucky Minera			Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)		Loamy Gleyed Matrix	(F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
_Stratif	ied Layers (A5)		Depleted Matrix (F3)			Anomalous Bright Loamy Soils (F20)
	ic Bodies (A6) (LRR P, T, U)		Redox Dark Surface	(F6)		(MLRA 153B)
			Depleted Dark Surfa			Red Parent Material (TF2)
	Mucky Mineral (A7) (LRR P,T,I	u)				<del></del>
_Muck	Presence (A8) (LRR U)		Redox Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
1 000	Muck (A9) (LRR P,T)		Marl (F10) (LRR U)			Other (Explain in Remarks)
-1 Cm	VIUCK (A9) (LRR P, I)					Otter (Explain in Nethaliks)
Deple	ted Below Dark Surface (A11)		Depleted Orchric (F1	1) (MLRA 151	)	
Thick	Dark Surface (A12)		Iron-Manganese Mas	ses (F12) /I R	ROPT)	
_	, .				•	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
_Coast	Prairie Redox (A16) (MLRA 1	50A)	Umbric Surface (F13	) (LRR P, T, U	)	hydrology must be present, unless disturbed or
04	Marin Mineral (C4) (LDD O	0)	Delta Orchric (F17) (	MI DA 151)		problematic.
- 1	Mucky Mineral (S1) (LRR O, S	5)				F
_Sandy	Gleyed Matrix (S4)		Reduced Vertic (F18	) (MLRA 150A	, 150B)	
Sandy	Redox (S5)		_Piedmont Floodplain	Soils (F19) (M	LRA 149A)	
String	ed Matrix (S6)		Anomalous Bright Lo	amy Soils (F20	) (MLRA 149A, 153C	C. 153D)
				, (	, ,	,,
	Surface (S7) (LRR P, S, T, U)					
strictiv	e Layer (If observed):					
	Туре:					
	Depth (inches):				Hydric Soil Preser	nt? Yes _ ✓ No
	Deput (inches).				Inyunc Son Freser	itr res v No
marks:		`				

Project/Site: Levy Baseload Transmission Progra	ım, LCR	City/County: Citrus		_Sampling Date:_	11/2/09		
Applicant/Owner: Progress Energy Florida, Inc.		State: FL Sampling Point: 3&24					
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range: 36 17S 16E					
Landform (hillslope, terrace, etc.): N/A	1	Local relief (concave, convex, none): none Slope (%):					
Subregion (LRR or MLRA): LRR U	Lat: 28.96179	99 Long:82,6	48889	Dat	tum: <u>WGS84</u>		
Soil Map Unit Name: Boca fine sand			NWI classification:	: Freshwater Emer	gent wetland		
Are climatic / hydrologic conditions on the site type	pical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in F	Remarks)		
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstances	normal? Yes	sNo		
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain	any answers in Re	emarks)		
SUMMARY OF FINDINGS - Attach si	te map showing sampli	ing point locations, t	ransects, impo	rtant features	, etc.		
Hydrophytic Vegetation Present?	Yes No	=					
Hydric Soil Present?	Yes No	Is the Sampled Area v	vithin a Wetland?	Yes✓No			
Wetland Hydrology Present? Remarks:	YesNo						
·							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of tw	o required)		
Primary Indicators (minimum of one is required; of	check all that apply)		Surface Soil	Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (	(B9)	Sparsely Ve	getated Concave S	iurface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim L	ines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	rows (C8)			
Drift Deposits (B3)	Presence of Reduced Ir	ron (C4)	Saturation V	isible on Aerial Ima	agery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction i	n Tilled Soils (C6)Geomorphic Position (D2)					
Iron Deposits (B5)	Thin Muck Surface (C7)	)Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)FAC Neutral Test (D5)					
Field Observations:							
Surface Water Present?	Yes No		-				
Water Table Present?	Yes No	_ Depth (inches):	- Wetland				
Saturation Present?	Yes No	_ Depth (inches):0	Hydrology				
(includes capillary fringe)			Present?	Yes <u>✓</u> No			
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:					
Remarks:							

County/soil: Citrus- Boca		
SOIL	Sampling Point:	38.24

	scription: (Describe t	o the de	pth needed to doc			confirm the abs	sence of indicators.	.)
Depth	Matrix	- 2/			x Features	17	<b>-</b> .	
(inches) 0-7	Color (moist) 10 YR 4/2	%	Color (moist) 10 YR 3/1		Type <sup>1</sup>	Loc²	Texture few fine roots	Remarks  dark gravish brown fine sand
10-7	10 113 4/2		10 11 3/1				few medium	dark grayish brown line sand
			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
<u> </u>							common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
	Concentration, D=Deple	etion, RM	I=Reduced Matrix, (	S=Cove	ered or Coated S	and Grains.		e Lining, M=Matrix.
	il Indicators:							Indicators for Problematic Hydric Soils 3:
Histol	• •		,		value Below Sur			1 cm Muck (a9) (LRR O)
	Epidon (A2)				Dark Surface (\$			2 cm Muck (A10) (LRR S)
	Histic (A3)				my Mucky Miner			Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4) ied Layers (A5)				my Gleyed Matri bleted Matrix (F3)			Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ic Bodies (A6) (LRR P	T. (1)			lox Dark Surface			Anomalous Bright Loamy Soils (F20) (MLRA 153B)
1	Mucky Mineral (A7) (LF		`		leted Dark Surfa			Red Parent Material (TF2)
_	Presence (A8) (LRR U		,		lox Depressions	` '		Very Shallow Dark Surface (TF12) (LRR T, U)
1	, , ,	"			•	(10)		
	Muck (A9) (LRR P,T)				1 (F10) (LRR U)			Other (Explain in Remarks)
	ted Below Dark Surface	e (A11)			eleted Orchric (F			
	Dark Surface (A12)		,		-Manganese Ma			<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (M	/ILRA 15	0A) .	Uml	bric Surface (F13	3) (LRR P, T, U)		hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (L	.RR O, S	) .		ta Orchric (F17)			problematic.
Sandy	Gleyed Matrix (S4)				luced Vertic (F18			
	Redox (S5)				dmont Floodplain	. , ,	•	
Stripp	ed Matrix (S6)			Ano	malous Bright Lo	pamy Soils (F20)	) (MLRA 149A, 153C	C, 153D)
Dark	Surface (\$7) (LRR P, \$	i, T, U)						
Restrictiv	e Layer (If observed):							
	Туре:							
	Depth (inches):						Hydric Soil Presen	nt? Yes✓ No
Remarks:								
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Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date:_	11/3/09
Applicant/Owner: Progress Energy Florida, Inc.		State: FL		Sampling Point:_	4
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range	: 36 17S 16E	<del></del>	
Landform (hillstope, terrace, etc.): N/A		Local relief (concave, conv	ex, none): <u>none</u>	Slo	ppe (%):
Subregion (LRR or MLRA): LRR U	Lat: 28.96103	37 Long: <u>-82.6</u> 5	50338	Da	tum: WGS84
Soil Map Unit Name: Boca fine sand			NWI classification	: <u>NA</u>	
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in I	Remarks)
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstances	s normal? Ye	sNo
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain	any answers in R	emarks)
SUMMARY OF FINDINGS - Attach sit	te map showing sampli	ing point locations, t	ransects, impo	rtant features	, etc.
Hydrophytic Vegetation Present?	Yes No	<u> </u>			
Hydric Soil Present?	Yes No	is the Sampled Area w	rithin a Wetland?	YesNo	
Wetland Hydrology Present? Remarks:	Yes No				
HYDROLOGY				·	
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of tw	vo required)
Primary Indicators (minimum of one is required; of	check all that apply)		Surface Soil		
Surface Water (A1)	Water-Stained Leaves (				Surface (B8)
High Water Table (A2)	Aquatic Fauna (B13)	()	Drainage Pa	-	
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim L		
Water Marks (B1)	Hydrogen Sulfide Odor	•		Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres	•	Crayfish Bur		
Drift Deposits (B3)	Presence of Reduced In		<del></del> -	isible on Aerial Ima	agery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction i				
Iron Deposits (B5)	Thin Muck Surface (C7)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	<del></del>			
Field Observations:		,	T	, ,	
Surface Water Present?	Yes No	_ Depth (inches):			
Water Table Present?	Yes No		1		
Saturation Present?	Yes No		Wetland		
(includes capillary fringe)		<u> </u>	Hydrology Present?	Yes <u>✓</u> No	_
Describe Recorded Data (stream gauge, monitoring Remarks:					
	·				

County/soil: Citrus- Boca	3
SOIL	

SOIL								Sampling Point: 4
Profile De	scription: (Describe to	o the dep	th needed to doc	ument t	he indicator or o	onfirm the ab	sence of indicators.	<u> </u>
Depth	Matrix			Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	
ł			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
-	10 111 0/1		111172				common medium	ight yellomen ereminate dana
20.20	10 VD 7/4		10 YR 6/6				distinct mottles	year agle heaves fine good
20-39	10 YR 7/4		10 110 0/6				distilict motiles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
<u> </u>								
L								
¹Type: C=0	Concentration, D=Deple	etion, RM=	Reduced Matrix, C	S=Cove	ered or Coated Sa	and Grains.	<sup>2</sup> Location: PL=Pore	e Lining, M=Matrix.
Hydric So	il Indicators:							Indicators for Problematic Hydric Soils 3:
Histol	(A1)			Poly	value Below Surf	ace (S8) (LRR	S, T, U)	1 cm Muck (a9) (LRR O)
Histic	Epidon (A2)		•	Thir	n Dark Surface (S	9) (LRR S. T.	U)	2 cm Muck (A10) (LRR S)
	Histic (A3)		•		my Mucky Minera	,	•	Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)		•		my Gleyed Matrix		'	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)		•		oleted Matrix (F3)	(F2)		<del></del>
		T 111	•		tox Dark Surface	(E6)		Anomalous Bright Loamy Soils (F20)
	ic Bodies (A6) (LRR P,					, ,		(MLRA 153B)
5 cm f	Mucky Mineral (A7) (LF	RR P,T,U)		Dep	oleted Dark Surface	ce (F7)		Red Parent Material (TF2)
✓ Muck	Presence (A8) (LRR U	I)		Rec	lox Depressions (	F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
_		.,	•		1 (F10) (LRR U)	,	,	Other (Explain in Remarks)
1 cm /	Muck (A9) (LRR P,T)			IVIAI	1 (F 10) (LKK U)			Other (Explain in Remarks)
Deplet	ted Below Dark Surface	e (A11)		Dep	leted Orchric (F1	1) (MLRA 151)	)	
	Dark Surface (A12)	` '		Iron	-Manganese Mas	ses (F12) /LR	R O. P.T)	2
					-			<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (N	/ILRA 150	A) .	Um	bric Surface (F13	) (LRR P, 1, U		hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (L	RR O. S)		Delt	ta Orchric (F17) (	MLRA 151)		problematic.
<u> </u>	Gleved Matrix (S4)	, -,	•		luced Vertic (F18	-	150R)	
	Redox (\$5)		•		dmont Floodplain	,		
	• •		•					4500)
	ed Matrix (S6)			And	maious Bright Lo	amy Solis (F20	) (MLRA 149A, 153C	, 1530)
Dark S	Surface (S7) (LRR P, S	i, T, U)						
Restrictive	e Layer (If observed):							
	Туре:							
	Depth (inches):						Hydric Soil Presen	t? Yes ✓ No
Remarks:	Deptit (Menes).						Triyana Con Freden	
Remarks.								
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Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date: 11/3/09		
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Point: 5		
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range: <u>36 17S 16E</u>				
Landform (hillslope, terrace, etc.): N/A	· · · · · · · · · · · · · · · · · · ·	Local relief (concave, conv	vex, none): none	Slope (%):		
Subregion (LRR or MLRA): LRR U	Lat: 28,96101	0 Long: -82.65	50861	Datum: WGS84		
Soil Map Unit Name: Boca fine sand			NWI classification:	NA		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in Remarks)		
Are Vegetation, Soil,	or Hydrology		Are circumstances			
Are Vegetation, Soil,			(If needed, explain	any answers in Remarks)		
SUMMARY OF FINDINGS - Attach sit	e map showing sampli	ng point locations, t	ransects, impo	rtant features, etc.		
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	Yes/No	Is the Sampled Area w	ithin a Wetland?	YesNo		
Wetland Hydrology Present?	Yes No	<u> </u>				
Remarks:						
1						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)		
Primary Indicators (minimum of one is required; c	heck all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (E	B9)	Sparsely Veg	egetated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pat	tterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LR	≀R U)	Moss Trim Li	ines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (	(C1)		Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres of	on Living Roots (C3)	Crayfish Burr	rows (C8)		
Drift Deposits (B3)	Presence of Reduced Iro	on (C4)	Saturation Vi	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6) Geomorphic Position (D2)				
tron Deposits (B5)	Thin Muck Surface (C7)	· •	Shallow Aqui	· ·		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remar		Test (D5)			
Field Observations:	, .		T			
Surface Water Present?	Yes No	_ Depth (inches):				
Water Table Present?	Yes No		1			
Saturation Present?	Yes No		Wetland Hydrology			
(includes capillary fringe)		<u> </u>	Present?	YesNo		
Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previous	inspections), if available:				
	,					
Remarks:			<del></del>			
Tomane.						

VEGETATION - Use scientific nar	mes of plants			Sa	mpling Point:	5
	Absolute %	Dominant	Indicator	T		
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.		·		Number of Dominant Species	•	
2.	- —			That Are OBL, FACW, or FAC:	<u>2</u>	(A)
3.				Total Number of Dominant		
4.				Species Across All Strata:	<u>3</u>	(B)
5.	- ———			┥ ˙		
6.				Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>66.67</u>	(A/B)
7.	·			Prevalance Index worksheet:		
· ·		- Total Cour		4		
Canling Stratum (Blot size)		= Total Cove	er.	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	<i>)</i>			OBL species	_x1=	-
1.				FACW species	_x2=	-
2.				FAC species	_x3=	_
3.				FACU species	_x4=	_
4.				UPL species	_x5=	_
5.				Column Totals:	_(A)	_(B)
6.	<del></del>			1		
7.				Prevalance Index = B/A =		
		= Total Cove	el	Hydrophytic Vegetation Indic	ators:	
Shrub Stratum (Plot size:	_)			✓ Dominance Test is 50%		
1.				Prevalence Index is ≤3.0	D <sup>1</sup>	
2.				Problematic Hydrophytic	Vegetation <sup>1</sup> (Exp	lain)
3.				<del>                                     </del>	, ,	
4.	· ———			<sup>1</sup> Indicators of hydric soil and we	etland hydrology m	ust
5.	• ——			be present, unless disturbed or		,,,,,
6.				Definitions of Vegetation Stra		
7.				1		
		= Total Cove		Tree- Woody plants, excluding w	oody vines	
Herb Stratum (Plot size:)	•			approximately 20 ft (6m) or more		(7.6
Rhynchospora colorata	35	yes	OBL	cm) or larger in diameter at breas		
Centella asiatica	30	yes	FACW	Sapling- Woody plants, excludin		
Muhlenbergia capillaris	25	yes	FACU	approximately 20 ft (6m) or more	•	than 3
Andropogon glomeratus	10		FACW	in. (7.6 cm) DBH.	in neight and less	unan o
Andropogon glomeratus     Rhynchospora miliacea	10	no	OBL	Shrub- Woody plants, excluding	woodyvinoa	
Dichanthelium spp.	10	no	FAC	approximately 3 to 20 ft (1 to 6 m		
	10	no	FACW	1 ''		
7. Panicum rigidulum 8.		no	FACVV	Herb- All herbaceous (non-wood	• • •	
	<del></del>			herbaceous vines, regardless of plants, except woody vines, less		
9.	· ——			m) in height.	пап арргохіпалету	311(1
10.	<del></del>			4 ' "		
11.				Woody vine- All woody vines, re	gardiess of neight.	
12.				4		
L.,	130	= Total Cove	er			
Woody Vine Stratum (Plot size:	)					
1.				1		
2.						
3.				]		
4.				Hydrophytic		
5.				Vegetation Present? Yes	sNo	<u>.</u>
	0	= Total Cove	er	1		
Remarks: (If observed, list morph	ological adapta	tions below).				
Percent cover estimates based or	n meandering s	survey of the b	roader cor	mmunity.		

County/soil:	Citrus-	Boca
SOIL		

	scrintion: (Describe t	to the der	th needed to doc	ument the indicator o	r confirm the ah	sence of indicators	Sampling Point:
Depth	Matrix	uch	nocasa to doc	Redox Features	. commin ule ab	some or mulcators,	•
inches)	Color (moist)	%	Color (moist)	% Type	Loc²	Toutura	Domestra
-7	10 YR 4/2	70	10 YR 3/1	-70 Type		Texture	Remarks
<u>′</u>	10 17 4/2		10 1 K 3/1			few fine roots	dark grayish brown fine sand
						few medium	
			10 YR 6/6; 10			distinct mottles	
20	10 YR 6/4		YR 7/2			and streaks	light yellowish brown fine sand
			<del></del>			common medium	
-39	10 YR 7/4		10 YR 6/6			distinct mottles	very pale brown fine sand
-80	10 YR 7/3		10 11( 0/0			district motocs	
-00	10 11/1/3						very pale brown fine sand
/pe: C=	Concentration, D=Deple	etion, RM	=Reduced Matrix. (	CS=Covered or Coated	Sand Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.
	il Indicators:	<del></del>					Indicators for Problematic Hydric Soils 3:
Histol				Polyvalue Below S	urface (S8) (I DD		1 cm Muck (a9) (LRR O)
	Epidon (A2)			Thin Dark Surface			2 cm Muck (A10) (LRR S)
	Histic (A3)			Loamy Mucky Mine			Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)			Loamy Gleyed Mat			Piedmont Floodplain Soils (F19) (LRR P, S, T)
_Stratif	ied Layers (A5)			Depleted Matrix (F			Anomalous Bright Loamy Soils (F20)
_Orgar	nic Bodies (A6) (LRR P	', T, U)		Redox Dark Surfac			(MLRA 153B)
				<del></del>	. ,		
	Mucky Mineral (A7) (LF			Depleted Dark Sur			Red Parent Material (TF2)
Muck	Presence (A8) (LRR L	J)		Redox Depression	s (F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
	Muck (A9) (LRR P,T)			Marl (F10) (LRR U	1		Other (Explain in Remarks)
_1 (11)	WILCK (AB) (LRR F, I)				,		Other (Explain in Remarks)
_Deple	ted Below Dark Surface	e (A11)		Depleted Orchric (I	F11) (MLRA 151)		
Thick	Dark Surface (A12)			Iron-Manganese M	asses (F12) (I RI	O PTI	_
_	• •					· · · ·	Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (M	MLRA 150	ıA)	Umbric Surface (F	13) (LRR P, T, U)		hydrology must be present, unless disturbed or
Cand	/ Mucky Mineral (S1) (L	DD O EV		Delta Orchric (F17)	(MI DA 151)		problematic.
		-KK (), 5)					p. 05.0
	Gleyed Matrix (S4)			Reduced Vertic (F			
Sandy	Redox (S5)			Piedmont Floodpla	in Soils (F19) (MI	.RA 149A)	
Stripp	ed Matrix (S6)			Anomalous Bright	Loamy Soils (F20	(MLRA 149A, 153C	. 153D)
	• •		•			, (	,,
	Surface (S7) (LRR P, S						
strictiv	e Layer (if observed):	:					
	Type:						
	Depth (inches):					Hydric Soil Presen	t? Yes ✓ No .
marks:	Depart (menes).			<del> </del>		Injulic Soli Flesell	tr res v NO .
marks							
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B : 40% 1 B 1 1 T							
Project/Site: Levy Baseload Transmission Progra						•	
Applicant/Owner: Progress Energy Florida, Inc.			State:F		Sampling Point:_	6	
Investigator(s): Blake Meineke, Amy Piko			Section, Township, Rang			····	
Landform (hillslope, terrace, etc.): N//			Local relief (concave, cor				
Subregion (LRR or MLRA): LRR U		Lat: 28.96094	Long: -82.6		Dat	tum: <u>WGS84</u>	
Soil Map Unit Name: Boca fine sand				NWI classification			
Are climatic / hydrologic conditions on the site ty	•	•		No			
Are Vegetation, Soil,				Are circumstances		s✓No	
Are Vegetation, Soil,					n any answers in Re		
SUMMARY OF FINDINGS - Attach si			ing point locations,	transects, imp	ortant features	s, etc.	
Hydrophytic Vegetation Present?		_ No	<u> </u>				
Hydric Soil Present?	Yes/	_ No	Is the Sampled Area	within a Wetland?	YesNo	<del></del>	
Wetland Hydrology Present? Remarks:	Yes <u></u> ✓	_ No					
HYDROLOGY				· · · · · · · · · · · · · · · · · · ·			
Wetland Hydrology Indicators:					ors (minimum of tw	o required)	
Primary Indicators (minimum of one is required;			Surface Soil Cracks (B6)				
Surface Water (A1)		Stained Leaves (	B9)	Sparsely Ve	getated Concave S	urface (B8)	
High Water Table (A2)		c Fauna (B13)		Drainage Pa	, ,		
Saturation (A3)	Marl De	eposits (B15) <b>(LR</b>	RR U)	Moss Trim L	ines (B16)		
Water Marks (B1)	Hydrog	jen Sulfide Odor (	(C1)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	Oxidize	d Rhizospheres	on Living Roots (C3)	Crayfish Bur	rows (C8)		
Drift Deposits (B3)	Presen	nce of Reduced In	on (C4)	Saturation V	isible on Aerial Ima	gery (C9)	
Algal Mat or Crust (B4)	Recent	Iron Reduction in	n Tilled Soils (C6)Geomorphic Position (D2)				
Iron Deposits (B5)	Thin M	uck Surface (C7)		Shallow Aqu	itard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (	Explain in Remar	rks)FAC Neutral Test (D5)				
Field Observations:				T			
Surface Water Present?			Depth (inches):	_			
Water Table Present?	Yes	. No <u> </u>	Depth (inches):				
Saturation Present?	Yes <u></u> ✓	_ No	Depth (inches): 2	Wetland Hydrology			
(includes capillary fringe)	· · · · · <u>- · · · · · · · · · · · · · ·</u>			Present?	Yes <u>✓</u> No		
Describe Recorded Data (stream gauge, monitor	ring well, aeria	Il photos, previous	s inspections), if available:				
Remarks:							
Normano.							
			•				

VEGETATION - Use scientific name	nes of plants			Sai	mpling Point:	6
	Absolute %	Dominant	Indicator	Dominance Test Worksheet:		
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.		·		Number of Dominant Species	_	
2.				That Are OBL, FACW, or FAC:	<u>6</u>	(A)
2. 3.				Total Number of Dominant		
4.				Species Across All Strata:	<u>6</u>	(B)
5.				<del> </del>		
				Percent of Dominant Species	100.00	(A/B)
6.				That Are OBL, FACW, or FAC:		
7.				Prevalance Index worksheet:		
		= Total Cove	r	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	_
Salix spp.	15	yes	FACW	FACW species	x2=	
Sabal palmetto	5	yes	FAC	FAC species	x3=	-
3.				FACU species	x4=	-
4.	1 10 10 10 10 10 10 10 10 10 10 10 10 10			UPL species	x5=	-
5.				Column Totals:	(A)	(B)
6.					- (^)	- <sup>(C)</sup>
7.				Provolence Index = R/A =		
1.		- Total Cove		Prevalance Index = B/A =	-4	
Ober h Charles (Diet size)	. 20	= Total Cove	11	Hydrophytic Vegetation Indic	ators:	
Shrub Stratum (Plot size:	_)			✓ Dominance Test is 50%		
Ilex cassine	5	yes	FACW	Prevalence Index is ≤3.0		
Myrica cerifera	5	yes	FAC	Problematic Hydrophytic	Vegetation¹ (Exp	lain)
Viburnum obovatum	2	no	FACW			
4.				<sup>1</sup> Indicators of hydric soil and we	tland hydrology m	nust
5.				be present, unless disturbed or	, ,,	
6.				Definitions of Vegetation Stra		
7.				<sup>-</sup>		
	12	= Total Cove	r	Tree- Woody plants, excluding w	oody vines	
Herb Stratum (Plot size:)	•		•	approximately 20 ft (6m) or more		<i>(</i> 7 6
Cladium jamaicense	40	yes	OBL	cm) or larger in diameter at breas	•	(1.0
Rhynchospora colorata	20		OBL	i	. , ,	
		yes		Sapling- Woody plants, excluding	•	45an 2
	10	no	FACW	approximately 20 ft (6m) or more in. (7.6 cm) DBH.	In height and less	man o
4. Amphicarpum muhlenbergianu		no	FACW	ł ` ´		
5. Carex spp.	5	no	FACW	Shrub- Woody plants, excluding	•	
6.				approximately 3 to 20 ft (1 to 6 m)	) in height.	
7.				Herb- All herbaceous (non-wood)	y)plants, including	
8.				herbaceous vines, regardless of s		
9.				plants, except woody vines, less t	than approximately	3 ft (1
10.				m) in height.		
11.		-		Woody vine- All woody vines, reg	pardless of height.	
12.					941-1-1-1	
1	85	= Total Cove		1		
Moody Vino Stratum (Blot size:		- Total Cove	1			
Woody Vine Stratum (Plot size:				-		
1.						
2.						
3.						
4.				Hydrophytic		
5.				Vegetation Present? Yes	No	<u>-</u>
	0	= Total Cove	r			
Remarks: (If observed, list morpho	logical adapta	tions below).		,		
Percent cover estimates based on	meandering s	urvey of the b	roader cor	nmunity.		
1	•	•		•		

Count	/enil-	Citrus-	Roca
COUNT	7/3UII.	Cill us-	DUG

Depth   Matrix   Redox Features   Type   Loc   Texture	
10 YR 4/2	Remarks
10 YR 6/6; 10 YR 7/2  10 YR 6/6 YR 7/2  10 YR 6/6  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 6/6  10 YR 7/3  10 YR 7/3  10 YR 6/6  10 YR 7/3  10 YR 7/3  10 YR 6/6  10 YR 7/3  10 YR 7/3  10 YR 7/3  10 YR 6/6  10 YR 7/3  10 YR 7/3  10 YR 6/6  10 YR 7/3  10 YR 7/3  10 YR 7/3  10 YR 6/6  10 YR 7/3  10 YR 6/6  10 YR 7/3  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 7/3  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 7/4  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 7/4  10 YR 6/6  10 YR 7/3  10 YR 7/3  10 YR 7/3  10 YR 7/3  10 YR 7/4  10 YR 8-duced Veric (F1) (LRR 7, T, U)  10 YR 6/6  10 YR 7/3  10 YR 7/3  10 YR 8-duced Yerric (F13) (LRR 7, T, U)  10 YR 6/6  10 YR 7/3  10 YR 8-duced Yerric (F13) (LRR 7, T, U)  10 YR 6/6  10 YR 7/3  10 YR 8-duced Yerric (F13) (LRR 7, T, U)  10 YR 7/4  10 YR 8-duced Yerric (F13) (LRR 7, T, U)  10 YR 9-duced Yerric (F13) (LRR 150)  10 YR 7/4  10 YR 9-duced Yerric (F13) (MLRA 150A)  10 YR 9-duced Yerric (F13) (MLRA 150A)  10 YR 9-duced Yerric (F13) (MLRA 150A)  10 YR 9-duced Yerric (F13) (MLRA 150B)	
7-20 10 YR 6/4 YR 7/2 distinct mottles and streaks (SP) (LRR S, T, U) and streaks (SP) (LRR P, T, U) and streaks (SP)	ille salid
10 YR 6/4 YR 7/2 and streaks common medium distinct mottles very pale brown fine very pale br	
20-39 10 YR 7/4 10 YR 6/6 20-39 10 YR 7/3 20-39 10 YR 7/3 20-39 10 YR 7/3 20-39 10 YR 7/3 20-39 10 YR 7/3 20-39 20	
20-39 10 YR 7/4 10 YR 6/6 distinct mottles very pale brown fine very pale very pale brown fine very pale brown fin	n fine 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.  Hydric Soil Indicators: Histol (A1) Histol (A2) Histic Epidon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F2) Depleted Dark Surface (F6) Tom Muck (A9) (LR R, R, T, U)  Depleted Dark Surface (F7) Red Parent Materia Muck Presence (A8) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Orchric (F11) (MLRA 151) Thick Dark Surface (A16) (MLRA 150A) Depleted Dark Surface (F13) (LRR P, T, U) Depleted Below Dark Surface (A16) Depleted Orchric (F17) (MLRA 151) Thick Dark Surface (A16) (MLRA 150A) Depleted Orchric (F17) (MLRA 150A) Depleted Orchric (F18) (MLRA 150A, 150B) Sandy Mucky Mineral (S1) (LRR P, S, T, U) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed): Type: Depth (inches):  Hydric Soil Present?  Yes	e sand
Hydric Soil Indicators: Histol (A1) Histol Epidon (A2) Histol Epidon (A1) Histol (A1) Histol Epidon (A2) Histol Epidon (A1) Histol (A1) Histol (A1) Histol (A1) Histo	e sand
Hydric Soil Indicators: Histol (A1) Histor Epidon (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) H	
Hydric Soil Indicators: Histol (A1) Histol Epidon (A2) Elack Histic (A3) Histol Epidon (A2) Elack Histic (A3) Elack Histic (A3) Elack Histic (A4) Hydrogen Sulfide (A4) Elack Histic (A5) Elack Histic (A5) Elack Histic (A5) Elack Histic (A3) Elacy Surface (A5) Elacy Surface (A6) Elacy	
Hydric Soil Indicators: Histol (A1) Histor Epidon (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) H	
Hydric Soil Indicators: Histol (A1) Histor Epidon (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) Histor (A2) H	
Histol (A1) Histol (A2) Histic Epidon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR O) Pepleted Matrix (F2) Pepleted Below Dark Surface (F6)  Coast Prairie Redox (A16) (MLRA 150A) Pepleted Matrix (S4) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Delta Orchric (F13) (LRR D, T, U) Pepleted Matrix (F3) Anomalous Bright (MLRA 151) Pepleted Dark Surface (F7) Red Parent Materia Pepleted Below Dark Surface (A12) Coast Prairie Redox (A16) (MLRA 150A) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Redox Dark Surface (F7) Red Parent Materia Pepleted Dark Surface (F7) Red Parent Materia Pepleted Orchric (F11) (MLRA 151) Pepleted Below Dark Surface (A12) Pepleted Orchric (F11) (MLRA 151) Pron-Manganese Masses (F12) (LRR O, P,T) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D) Park Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present?  Hydric Soil Present?  Yes  Hydric Soil Present?	matic Hydric Soils 3:
Histic Epidon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Depleted Matrix (F3)  Muck Presence (A8) (LRR P, T, U)  Depleted Dark Surface (F6)  Mard (F10) (LRR U)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox Depressions (F12) (LRR O, P, T)  Detail a Crick (F13)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F2)  Piedmont Floodplai  Anomalous Bright Loamy Surface (F6)  (MLRA 153B)  Red Parent Materia  Very Shallow Dark  Very Shallow Dark  Very Shallow Dark  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)  Delta Orchric (F13) (MLRA 150A)  Sandy Redox (S5)  Piedmont Floodplain Soils (F20) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Hydric Soil Present?  Yes   Piedmont Floodplain Foil Present?  Prescriptive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?	
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F1 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplai Stratified Layers (A5) Depleted Matrix (F2) Anomalous Bright I (MLRA 1538) 5 cm Mucky Mineral (A7) (LRR P, T, U) Pepleted Dark Surface (F6) (MLRA 1548) 5 cm Mucky Mineral (A7) (LRR P,T,U) Pepleted Dark Surface (F7) Red Parent Materia Muck Presence (A8) (LRR U) Redox Depressions (F8) Very Shallow Dark 1 cm Muck (A9) (LRR P,T) Marl (F10) (LRR U) Other (Explain in R Depleted Below Dark Surface (A11) Depleted Orchric (F11) (MLRA 151) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P,T) Sandy Mucky Mineral (S1) (LRR O, S) Delta Orchric (F13) (LRR P, T, U) hydrology must be prespoblematic.  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)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes	
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  5 cm Mucky Mineral (A7) (LRR P,T,U)  — Redox Dark Surface (F6)  — Redox Depressions (F8)  — Very Shallow Dark  — 1 cm Muck (A9) (LRR P,T)  — Depleted Below Dark Surface (A11)  — 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 O, S, T, U)  Redox Depressions (F8)  — Very Shallow Dark  — Marl (F10) (LRR U)  — Depleted Orchric (F11) (MLRA 151)  — Iron-Manganese Masses (F12) (LRR O, P,T)  — Jumbric Surface (F13) (LRR P, T, U)  — Sandy Mucky Mineral (S1) (LRR O, S)  — Sandy Gleyed Matrix (S4)  — Sandy Redox (S5)  — Sitipped Matrix (S6)  — Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  — Type: — Depth (inches):  — Hydric Soil Present?  — Yes —	•
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Stratified Layers (A7) (LRR P, T, U) Stratified Layers (A6) (LRR P, T, U) Stratified Layers (A7) (LRR P, S,	
Organic Bodies (A6) (LRR P, T, U)  Sedox Dark Surface (F6)  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 Depressions (F8)  Wery Shallow Dark  Marl (F10) (LRR U)  Depleted Orchric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  Jumbric Surface (F13) (LRR P, T, U)  Mydrology must be presently (F18) (MLRA 150A)  Sendy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes   Hydric Soil Present?	
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 (S7) (LRR P, S, T, U)  Redox Depressions (F8)  Wery Shallow Dark  Marl (F10) (LRR U)  Depleted Orchric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  Jumbric Surface (F13) (LRR P, T, U)  Mydrology must be presented orchric (F18) (MLRA 150A)  Sendy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes   Hydric Soil Present?	Loamy Solls (F20)
Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P,T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Redox Depressions (F8)  Marl (F10) (LRR U)  Depleted Orchric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  Jumbric Surface (F13) (LRR P, T, U)  Mydrology must be presented by problematic.  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present? Yes ✓	
	• •
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)  Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes   Proper Matrix (S6)  Destrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes   ### Andread Orchric (F11) (MLRA 151)  Proper Matrix (F17) (MLRA 150A, 150B)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	k Surface (TF12) (LRR 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)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Piedmont Floodplain Soils (F20) (MLRA 149A, 153C, 153D)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes   Proper Matrix (S6)  Destrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes   ### Andread Orchric (F11) (MLRA 151)  Proper Matrix (F17) (MLRA 150A, 150B)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Remarks)
Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type:  Detth Order (A12)  Iron-Manganese Masses (F12) (LRR O, P,T)  Jumbric Surface (F13) (LRR P, T, U)  Hydric Soil Present?  Problematic.  Peduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Problematic.  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Problematic.  Problematic.  Problematic.  Problematic.  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Problematic.  Proble	•
Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed): Type:	
Coast Prairie Redox (A16) (MLRA 150A)	vtic vegetation and wetland
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes	
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes	
Stripped Matrix (S6)Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):	
Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):	
Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present? Yes ✓	
Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present? Yes ✓	
Type:	
Depth (inches): Hydric Soil Present? Yes 🗸	
	No .
remaiks:	

Project/Site: Levy Baseload Transmission Program	m, LCR	City/County: Citrus		_Sampling Date:	11/3/09
Applicant/Owner: Progress Energy Florida, Inc.		State: FL			
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range			
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, conv	vex, none): none	S	Glope (%):
		31 Long: -82.652708 Datum: <u>W</u>			
Soil Map Unit Name: Boca fine sand			NWI classification		
Are climatic / hydrologic conditions on the site typ	vical for this time of year?	Yes	_ No	(If no, explain in	า Remarks)
Are Vegetation, Soil,	or Hydrology		Are circumstances		′esNo
	or Hydrology		(If needed, explain	any answers in	Remarks)
SUMMARY OF FINDINGS - Attach sit			ransects, impo	rtant feature	es, etc.
Hydrophytic Vegetation Present?	Yes No				
Hydric Soil Present?	Yes No	Is the Sampled Area w	rithin a Wetland?	Yes N	lo
Wetland Hydrology Present?	Yes No				
- Wana aay					
HYDROLOGY			Canandani Indiant	are (minimum of	ture required)
Wetland Hydrology Indicators:	Control attack and the		Secondary Indicate		two required)
Primary Indicators (minimum of one is required; c		(Do)	Surface Soil		O::-fana (DD)
Surface Water (A1)	Water-Stained Leaves (	'Ra)		getated Concave	Suпасе (Бо)
High Water Table (A2)	Aquatic Fauna (B13)	1	Drainage Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LR		Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor		Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Bur		(22)
Drift Deposits (B3)	Presence of Reduced Ir	, ,		isible on Aerial Ir	nagery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction in	, ,		Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aqu	•	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remai	rks)	FAC Neutral	Test (D5)	
Field Observations:	No. 7				
Surface Water Present?	Yes No		.		
Water Table Present?	Yes No		Wetland		•
Saturation Present?	Yes No	_ Depth (inches):3	Hydrology		
(includes capillary fringe)		N. 10	Present?	Yes <u>✓                                    </u>	<del>1</del> 0
Describe Recorded Data (stream gauge, monitoring Remarks:	ing well, aenal pnotos, previous	s inspections), if available:			

VEGETATION - Use scientific na	mes of plants			Sampling Point:	7
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:	
•	COVCI	Openes:	Olulus	Number of Dominant Species	
1. 2.				That Are OBL, FACW, or FAC:	(A)
2.				4	
3.				Total Number of Dominant	(B)
<b>4</b> . 5.				Species Across All Strata:	` ,
5.				Percent of Dominant Species 100.00	(A/B)
6.				That Are OBL, FACW, or FAC:	(, ,
7.				Prevalance Index worksheet:	
	0	= Total Cove	r	Total % Cover of: Multiply by:	
Sapling Stratum (Plot size:	)			OBL species x1=	
1.				FACW species x2=	
2.	· ——			FAC species x3=	
3.	-			FACU species x4=	
4.				UPL species x5=	
5.	• ——			<u> </u>	(B)
6.	<del></del>	<del></del>		Column Totals.	(0)
7.				Dravelance Index = D/A =	
<u>/·</u>		- Total Cave		Prevalance Index = B/A =	
0 10 1	, 0	= Total Cove	1	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size:	_)			Dominance Test is 50%	
Myrica cerifera	60	yes	<u>FAC</u>	Prevalence Index is ≤3.01	
2.	<u> </u>			Problematic Hydrophytic Vegetation¹ (Expla	in)
3.					
4.				Indicators of hydric soil and wetland hydrology mu	st
5.	-			be present, unless disturbed or problematic.	
6.				Definitions of Vegetation Strata:	
7.					
	60	= Total Cove		Tree- Woody plants, excluding woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or more in height and 3 in. (7	<sup>7</sup> .6
1. Sagittaria lancifolia	15	yes	OBL	cm) or larger in diameter at breast height (DBH).	
2.			<u> </u>	Sapling- Woody plants, excluding woody vines,	
3.				approximately 20 ft (6m) or more in height and less th	an 3
4.	- ——			in. (7.6 cm) DBH.	
5.				Shrub- Woody plants, excluding woody vines,	
6.	-			approximately 3 to 20 ft (1 to 6 m) in height.	
				1	
7.				Herb- All herbaceous (non-woody)plants, including	
8.				herbaceous vines, regardless of size. Includes woody	
9.				plants, except woody vines, less than approximately 3	η (1
10.				m) in height.	
11.				Woody vine- All woody vines, regardless of height.	
12.					
	15	= Total Cove	er		
Woody Vine Stratum (Plot size:	)				
1.					
2.				1	
3.					
4.				  Hydrophytic	
5.	•			Vegetation Present? YesNo	
		= Total Cove	<u></u>	1090	<del></del>
Remarks: (If observed, list morph					
Percent cover estimates based of			roader cor	mmunity.	

County/soil: Citrus- Boca

SOIL	. Citrus Boca								Sampling Point:7
	scription: (Describe to	o the dep	oth needed to do	ument t	he indicator or c	onfirm the ab	sence of indicators.)	)	
Depth	Matrix	•			x Features		·		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc²	Texture		Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brow	
F							few medium	<u>v</u>	
1			10 YR 6/6; 10				distinct mottles		
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish bro	wwn fine sand
1-20	10 110 014		11/1/2					iight yellowish bro	Will line Salid
20.20	40 VD 7/4		10 VD 0/0				common medium		
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown f	
39-80	10 YR 7/3							very pale brown f	ine sand
L									
Type: C=0	Concentration, D=Deple	etion, RM	=Reduced Matrix,	CS=Cove	ered or Coated Sa	and Grains.	<sup>2</sup> Location: PL=Pore		
Hydric So	il Indicators:							Indicators for Prob	lematic Hydric Soils 3:
Histol	(A1)			Poly	value Below Surf	face (S8) (LRR	l S, T, U)	1 cm Muck (a9)	(LRR O)
Histic	Epidon (A2)			Thir	n Dark Surface (S	9) (LRR S, T,	U)	2 cm Muck (A10	(LRR S)
Black	Histic (A3)			Loa	my Mucky Minera	I (F1) (LRR O)	1	Reduced Vertic	(F18) (outside MLRA 150A, B)
Hydro	gen Sulfide (A4)				my Gleyed Matrix		•		plain Soils (F19) (LRR P, S, T)
	ed Lavers (A5)				leted Matrix (F3)	· (· –)	•		ht Loamy Soils (F20)
	ic Bodies (A6) (LRR P,	T. U)			lox Dark Surface	(F6)		(MLRA 153B)	in Edainy dons (1 20)
					leted Dark Surfac			Red Parent Mat	racial (TE2)
	Mucky Mineral (A7) (LR					٠, ,			
Muck	Presence (A8) (LRR U	1)		Red	lox Depressions (	(F8)		Very Shallow Da	ark Surface (TF12) (LRR T, U)
1 cm !	Muck (A9) (LRR P,T)			Mar	1 (F10) (LRR U)			Other (Explain i	n Remarks)
	. , ,	. / ^ 4 4 \		Don	oleted Orchric (F1	1) (MI DA 151	١		
I—-	ted Below Dark Surface	(A11)							
Thick	Dark Surface (A12)			Iron	-Manganese Mas	ses (F12) (LR	R O, P, I)	3Indicators of hydrog	phytic vegetation and wetland
_Coast	Prairie Redox (A16) (N	<b>ILRA 15</b> 0	DA)	Uml	bric Surface (F13)	) (LRR P, T, U			resent, unless disturbed or
			•	Dott	ta Orchric (F17) (I	MI DA 151)		problematic.	, , , , , , , , , , , , , , , , , , , ,
	Mucky Mineral (S1) (L	KK (), 5)	1			•		problematio.	
	Gleyed Matrix (S4)				luced Vertic (F18)				
	Redox (S5)				dmont Floodplain				
Strippe	ed Matrix (S6)			Ano	malous Bright Lo	amy Soils (F20	) (MLRA 149A, 153C	, 153D)	
Dark 9	Surface (S7) (LRR P, S	. T. U)							
	e Layer (If observed):						T		
	Type:						1		
	Depth (inches):		<del></del>				Hydric Soil Presen	t? Yes	✓ No .
	Deptit (inches).						Tryunc Son Fresen	103_	<u> </u>
Remarks:									
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Project/Site: Levy Baseload Transmission Progra	City/County: Citrus		Sampling Date:	11/3/09		
Applicant/Owner: Progress Energy Florida, Inc.			_			
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range				
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, conv		Slor	ne (%):	
		2273 Long: -82.653841 Datum: WGS84				
Soil Map Unit Name: Boca fine sand				Freshwater Emerc	·	
Are climatic / hydrologic conditions on the site typ	nical for this time of year?	 Yes✓	_ No			
	or Hydrology		Are circumstances		sNo	
	or Hydrology		(If needed, explain			
SUMMARY OF FINDINGS - Attach sit				•		
Hydrophytic Vegetation Present?	Yes No				, 0.0.	
Hydric Soil Present?	Yes✓ No	Is the Sampled Area w	rithin a Wetland?	Yes✓No	<u></u>	
Wetland Hydrology Present?	Yes✓No	=				
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of tw	o required)	
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil		O TEquited,	
Surface Water (A1)	Water-Stained Leaves	/R0)		getated Concave S	urface (R8)	
High Water Table (A2)	Aquatic Fauna (B13)	(69)		•	ullace (DS)	
<del></del> -		DD 11)	Drainage Patterns (B10)Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15) (LI	•				
Water Marks (B1)	Hydrogen Sulfide Odor		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Burrows (C8)		·=->	
Drift Deposits (B3)	Presence of Reduced I	• •	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Recent Iron Reduction					
Iron Deposits (B5)	Thin Muck Surface (C7		Shallow Aqu	, ,		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	FAC Neutral	Test (D5)		
Field Observations:						
Surface Water Present?	Yes No		-			
Water Table Present?	Yes No		Wetland			
Saturation Present?	Yes No	_ Depth (inches):3	Hydrology			
(includes capillary fringe)			Present?	Yes <u>✓</u> No		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:				
Remarks:						

VEGETATION - Use scientific na	mes of plants			Sampling Point:	8
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:	
1.	-			Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
3.				Total Number of Dominant	
4.				Species Across All Strata:	(B)
5.				1	
6.				Percent of Dominant Species 80.00	(A/B)
				That Are OBL, FACW, or FAC:  Prevalance Index worksheet:	
7.		= Total Cove		Total % Cover of: Multiply by:	
Sapling Stratum (Plot size:		- Total Cove	<b>11</b>	OBL species x1=	
Fraxinus caroliniana	20	yes	OBL	FACW species x2=	_
2.				FAC species x3=	_
3.				FACU species x4=	
4.				UPL species x5=	-
5.	- —			Column Totals: (A)	— <sub>(B)</sub>
6.	-	<del></del>			<b>—</b> (5)
7.				Prevalance Index = B/A =	
	20	= Total Cove	el	Hydrophytic Vegetation Indicators:	-
Shrub Stratum (Plot size:	_)			✓ Dominance Test is 50%	
Myrica cerifera	25	yes	FAC	Prevalence Index is ≤3.01	
2.	- ———			Problematic Hydrophytic Vegetation <sup>1</sup> (Ex	plain)
3.	-	<del></del>		(	p.c,
4.				Indicators of hydric soil and wetland hydrology	munt
5.	- —			be present, unless disturbed or problematic.	ilust
6.	- —			Definitions of Vegetation Strata:	
		<del></del>		Definitions of vegetation Strata.	
7.					
Herb Stratum (Plot size:)	25	= Total Cove		Tree- Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in	. (7.6
Rhynchospora colorata	15	yes	OBL	cm) or larger in diameter at breast height (DBH).	
Muhlenbergia capillaris	10	yes	FACU	Sapling- Woody plants, excluding woody vines,	
Pluchea odorata	10	yes	FACW	approximately 20 ft (6m) or more in height and less	than 3
4.				in. (7.6 cm) DBH.	
5.				Shrub- Woody plants, excluding woody vines,	
6. 7.				approximately 3 to 20 ft (1 to 6 m) in height.	
				Herb- All herbaceous (non-woody)plants, including	
8.				herbaceous vines, regardless of size. Includes word plants, except woody vines, less than approximately	
9.				m) in height.	y 3 11 ( 1
10.				4 ' · · ·	
11.				Woody vine- All woody vines, regardless of height	i.
12.					
Woody Vine Stratum (Plot size:	35 )	= Total Cove	er		
1.					
2.					
3.					
4.				Hydrophytic	
5.				Vegetation Present? YesNo	<u>_</u> _
	0	= Total Cove	r	1 -	
Remarks: (If observed, list morph	ological adapta				
Percent cover estimates based o			roader cor	nmunity.	

County/soil: Citrus- Boca Sampling Point: SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (inches) Color (moist) Loc 10 YR 4/2 0-7 10 YR 3/1 few fine roots dark grayish brown fine sand few medium 10 YR 6/6; 10 distinct mottles 10 YR 6/4 light yellowish brown fine sand 7-20 YR 7/2 and streaks common medium 10 YR 7/4 10 YR 6/6 very pale brown fine sand 20-39 distinct mottles very pale brown fine sand 39-80 10 YR 7/3 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains <sup>2</sup>Location: PL=Pore Lining, M=Matrix Hydric Soil Indicators: Indicators for Problematic Hydric Soils 3: \_Histol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) \_1 cm Muck (a9) (LRR O) \_Histic Epidon (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) \_Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Redox Dark Surfacé (F6) (MLRA 153B) \_5 cm Mucky Mineral (A7) (LRR P,T,U) Depleted Dark Surface (F7) Red Parent Material (TF2) \_Very Shallow Dark Surface (TF12) (LRR T, U) ✓ Muck Presence (A8) (LRR U) Redox Depressions (F8) \_Marl (F10) (LRR U) Other (Explain in Remarks) 1 cm Muck (A9) (LRR P,T) Depleted Orchric (F11) (MLRA 151) Depleted Below Dark Surface (A11) \_Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P,T) <sup>3</sup>Indicators of hydrophytic vegetation and wetland Coast Prairie Redox (A16) (MLRA 150A) Umbric Surface (F13) (LRR P, T, U) hydrology must be present, unless disturbed or problematic. Delta Orchric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) Sandy Redox (S5) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No Remarks

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		Sampling Date: 11/3/09	
Applicant/Owner: Progress Energy Florida, Inc.		State: FL		Sampling Point: 9	
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range	: 36 17S 16E		
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, convex, none): none Slope (%):			
Subregion (LRR or MLRA): LRR U	Lat: 28.96122	228 Long: -82.652137 Datum: WGS8			
Soil Map Unit Name: Boca fine sand		<u>.</u>	NWI classification	: NA	
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes✓	_ No	(If no, explain in Remarks)	
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstances	s normal? YesNo	
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain	any answers in Remarks)	
SUMMARY OF FINDINGS - Attach sit	e map showing sampli	ng point locations, t	ransects, impo	ortant features, etc.	
Hydrophytic Vegetation Present?	Yes No				
Hydric Soil Present?	Yes No	Is the Sampled Area within a Wetland? Yes✓ No			
Wetland Hydrology Present?	Yes No				
HYDROLOGY					
Wetland Hydrology Indicators:	b 1 1) 4b - 4 1. \			ors (minimum of two required)	
Primary Indicators (minimum of one is required; c		'DO'	Surface Soil	, ,	
Surface Water (A1)	Water-Stained Leaves (	89)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	•	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor	,	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Bur		
Drift Deposits (B3)	Presence of Reduced Ir		·	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction i		-	Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aqu		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutral	Test (D5)	
Field Observations:	No. 2				
Surface Water Present?	Yes No		-		
Water Table Present?	Yes No		- Wetland		
Saturation Present?	Yes No	_ Depth (inches):0	Hydrology		
(includes capillary fringe)	<del> </del>		Present?	Yes <u>✓ No</u>	
Describe Recorded Data (stream gauge, monitori	ing weil, aenai protos, previous	нізресцонэ <u>,</u> п ачанале.			

County/soil: Citrus- Boca Sampling Point: SOIL 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) Texture dark grayish brown fine sand 10 YR 4/2 10 YR 3/1 few fine roots few medium 10 YR 6/6; 10 distinct mottles 10 YR 6/4 and streaks light yellowish brown fine sand 7-20 YR 7/2 common medium 10 YR 7/4 10 YR 6/6 distinct mottles very pale brown fine sand 20-39 very pale brown fine sand 39-80 10 YR 7/3 Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix Indicators for Problematic Hydric Soils 3: \_Histol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (a9) (LRR O) \_Histic Epidon (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) Redox Dark Surface (F6) Organic Bodies (A6) (LRR P, T, U) (MLRA 153B) \_5 cm Mucky Mineral (A7) (LRR P,T,U) Depleted Dark Surface (F7) Red Parent Material (TF2) \_Very Shallow Dark Surface (TF12) (LRR T, U) ✓ Muck Presence (A8) (LRR U) Redox Depressions (F8) \_Other (Explain in Remarks) Marl (F10) (LRR U) \_1 cm Muck (A9) (LRR P,T) Depleted Orchric (F11) (MLRA 151) \_Depleted Below Dark Surface (A11) Thick Dark Surface (A12) \_Iron-Manganese Masses (F12) (LRR O, P,T) <sup>3</sup>Indicators of hydrophytic vegetation and wetland \_Umbric Surface (F13) (LRR P, T, U) Coast Prairie Redox (A16) (MLRA 150A) hydrology must be present, unless disturbed or problematic. Delta Orchric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Reduced Vertic (F18) (MLRA 150A, 150B) Sandy Gleyed Matrix (S4) Piedmont Floodplain Soils (F19) (MLRA 149A) Sandy Redox (S5) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes No Remarks:

Project/Site: Levy Baseload Transmission Progra	m. LCR	City/County: Citrus	Sa	ampling Date:	11/3/09	
Applicant/Owner: Progress Energy Florida, Inc.			ampling Point:			
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range				
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, convex, none): none Slope (%):				
		503 Long: -82.652503 Datum: WGS84				
Soil Map Unit Name: Boca fine sand			NWI classification: NA			
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes ✓	_No (If		emarks)	
Are Vegetation, Soil,	•		Are circumstances no			
Are Vegetation, Soil,			(If needed, explain any			
SUMMARY OF FINDINGS - Attach sit				•	•	
Hydrophytic Vegetation Present?	YesNo	point locations, t	ansects, importa	int icatures,	<del>- C.C.</del>	
Hydric Soil Present?	YesNo	Is the Sampled Area w	ithin a Wetland? Ye	es ✓ No		
Wetland Hydrology Present?	YesNo	1				
Remarks:	140	-				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)	
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil Cra	acks (B6)		
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Vegeta	ated Concave Su	urface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Burrows (C8)			
Drift Deposits (B3)	Presence of Reduced I	ron (C4)	Saturation Visible	le on Aerial Imag	gery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction	in Tilled Soils (C6)	Geomorphic Pos	sition (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	)	Shallow Aquitare	d (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema		FAC Neutral Tes	st (D5)		
Field Observations:			T	<del>,</del>		
Surface Water Present?	Yes No	_ Depth (inches):				
Water Table Present?	Yes No	_ Depth (inches):	]			
Saturation Present?	Yes No		Wetland Hydrology			
(includes capillary fringe)		-	1	es <u> </u>		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:				
Remarks:						
1						

VEGETATION - Use scientific na	mes of plants				Sampling Point:	10
	Absolute %	Dominant	Indicator	Dominance Test Worksh	neet:	
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Spec	cies	/A\
2.				That Are OBL, FACW, or	FAC: 4	(A)
3.				Total Number of Dominan	t ,	<b>(D)</b>
4.				Species Across All Strata:	4	(B)
5.				Percent of Dominant Spec	cies 400 00	(4 (5)
6.				That Are OBL, FACW, or	1110.100	(A/B)
7.				Prevalance Index works		
		= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)	, , , , , , , , , , , , , , , , , , , ,		OBL species	x1=	
1. Salix spp.	, 15	yes	FACW	FACW species	x2=	_
2.	i <u>x</u>			FAC species	x3=	_
3.				FACU species	x4=	_
4.				UPL species	x5=	
5.	<del></del>			Column Totals:	(A)	- (В)
6.	<del> </del>			Column rotals.	(^)	_(0)
7.				Prevalance Index = E	2// -	
· .	15	= Total Cove		Hydrophytic Vegetation		
Shrub Stratum (Plot size:	١٥	- rotal covi	51	✓ Dominance Test is		
			OBL	Prevalence Index i		
· · · · · · · · · · · · · · · · · · ·		yes	OBL			dain)
2.				Problematic Hydro	phytic Vegetation <sup>1</sup> (Exp	лапт)
3.				<del> </del>  ,		
4.	·			Indicators of hydric soil a		nust
5.	<del></del>			be present, unless disturb		
6.	- ——			Definitions of Vegetation	n Strata:	
7.			·	4		
Llash Stratum (Diat sing.	10	= Total Cov	er	Tree- Woody plants, exclud		(7.¢
Herb Stratum (Plot size:)				approximately 20 ft (6m) or cm) or larger in diameter at		(7.6
Centella asiatica		yes	FACW	4 ' -		
Andropogon glomeratus	15	yes	FACW	Sapling- Woody plants, ex		
Cladium jamaicense	10	no	OBL	approximately 20 ft (6m) or	more in neight and less	tnan 3
Rhynchospora colorata	10	no	OBL	in. (7.6 cm) DBH.		
5. Rhyncospora spp.	5	no	FACW	Shrub- Woody plants, excl		
Muhlenbergia capillaris	5	no	FACU	approximately 3 to 20 ft (1 t	to 6 m) in neight.	
7.				Herb- All herbaceous (non-		
8.				herbaceous vines, regardle		
9.	<del></del>			plants, except woody vines, m) in height.	, less than approximately	/ 3 ft (1
10.				J ′ •		
11.				Woody vine- All woody vin	es, regardless of height.	
12.						
	65	= Total Cov	er			
Woody Vine Stratum (Plot size:	)					
1.				1		
2.						
3.						
4.				Hydrophytic		
5.				Vegetation Present?	YesNo	
	0	= Total Cov	er			
Remarks: (If observed, list morph	ological adapta	itions below).				
Percent cover estimates based of	n meandering s	survey of the b	rnader co	mmunity.		

epth nches) -7		to nie oc	epth needed to do	ument tr	e indicator or	confirm the ab	sence of indicators	i.)
	Matrix			Redox	Features			
	Color (moist)	%_	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
· <u>'</u> —— .	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
			40 VP C/C- 40				few medium	
-20	10 YR 6/4		10 YR 6/6; 10 YR 7/2				distinct mottles and streaks	light yellowish brown fine sand
	10 11( 0/4		11172				common medium	ight yellowish brown time sand
<b>)</b> -39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
9-80	10 YR 7/3							very pale brown fine sand
	oncentration, D=Dep		1 D. J	0.0	10	. 10	21	
	oncentration, D=Dep Indicators:	letion, RN	n=Reduced Matrix,	CS=Cove	red or Coated S	Sand Grains.	-Location: PL=Po	re Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histol (/				Poly	value Below Su	rface (S8) (LRF	S. T. UI	1 cm Muck (a9) (LRR O)
	pidon (A2)					S9) (LRR S, T,		2 cm Muck (A10) (LRR S)
	listic (A3)					al (F1) (LRR O		Reduced Vertic (F18) (outside MLRA 150A, B)
 Hydrog	en Sulfide (A4)				ny Gleyed Matri			Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)				eted Matrix (F3			Anomalous Bright Loamy Soils (F20)
Organic	Bodies (A6) (LRR F	P, T, U)		Redo	ox Dark Surface	€ (F6)		(MLRA 153B)
5 cm M	lucky Mineral (A7) (L	RR P,T,U	1)		eted Dark Surfa			Red Parent Material (TF2)
<pre>Muck F</pre>	Presence (A8) (LRR	U)		Redo	ox Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm M	luck (A9) (LRR P,T)			Marl	(F10) (LRR U)			Other (Explain in Remarks)
Deplete	ed Below Dark Surface	ce (A11)		Depl	eted Orchric (F	11) (MLRA 151	)	
Thick D	ark Surface (A12)			Iron-	Manganese Ma	isses (F12) (LR	R O, P,T)	31-41-44
Coast F	Prairie Redox (A16) (	MLRA 15	(A)	Umb	ric Surface (F1	3) (LRR P, T, U	)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
	Mucky Mineral (S1) (		•	Delta	Orchric (F17)	(MI RA 151)		problematic.
	Gleved Matrix (S4)	LINIX O, C	"			8) (MLRA 150A	. 150B)	
_ ′	Redox (S5)				•	Soils (F19) (M	•	
_ ′	d Matrix (S6)			_	•	. , .	) (MLRA 149A, 153	C, 153D)
Dark St	urface (S7) (LRR P.	S. T. U)			_			·
	Layer (If observed)						T	
	ype:							•
	Depth (inches):						Hydric Soil Prese	nt? Yes <u></u> ✓ No

Applicant/Owner:   Progress Energy Florida_Inc   State   FL   Sampling Point   11	Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		Sampling Date: 11/3/09
Landform (hillslope, terrace, etc.): N/A	•		State:FL		Sampling Point: 11
Subregion (LRR or MLRA): LRR U Lat: 28.962091 Long: 82.856719 NoWindessification: NA Are Unit Name: Boca fine sand Are climatic / hydrologic conditions on the site typical for this time of year? Are Vegetation Soil or Hydrology significantly disturbed? Are Vegetation Soil or Hydrology naturally problematic? Are Vegetation Soil or Hydrology naturally problematic?  Are Vegetation Soil or Hydrology naturally problematic?  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Hydrosphytic Vegetation Present? Wetland Hydrology Present? Wetland Hydrology Indicators:  Wetland Hydrology Indicators:  Water Mater (Ba) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Soil Cracks (B6) Surface Water (A1) Surface Soil Cracks (B6)	• • • • • • • • • • • • • • • • • • • •				
Soil Map Unit Name: Boca fine sand  Are climatic / hydrologic conditions on the site typical for this time of year?  Are logestation Soil or Hydrology significantly disturbed?  Are Vegetation Soil or Hydrology naturally problematic?  SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present?  Hydrophytic Vegetation Present?  Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Surface Water (A1) Water-Stained Leaves (B9)  Surface Water (A1) Water-Stained Leaves (B9)  Surface Water (A1) Aquatic Fauna (B13)  Water Marks (B1) Hydrogen Sulfide Odor (C1)  Sediment Deposits (B3) Presence of Reduced Iron (C4)  Sediment Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  In on Deposits (B5)  In on Deposits (B5)  In on Deposits (B5)  In on Deposits (B5)  Surface Water Present?  Yes No Depth (inches):  Wetland Hydrology  Wetland Hydrology  Wetland Hydrology  Moss Trim Lines (B16)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  FAC Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Susturation Present?  Yes No Depth (inches):  Susturation Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Depth (inches):  Saturation Present?  Yes No Depth (inches):  Depth (inches):  Saturation Present?  Yes No Depth (inches):  Depth (inches):  Saturation Present?  Yes No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Depth (inches):  Saturation Present?  Yes No Depth (inches):  No Depth (inches):  No Depth (inches):  Saturation Present?  Yes No Depth (inches):  Sat	Landform (hillslope, terrace, etc.):N/A	\	Local relief (concave, con-	vex, none): <u>none</u>	Slope (%):
Are climatic / hydrologic conditions on the site typical for this time of year?  Are Vegetation Soil or Hydrology significantly disturbed? Are circumstances normal? YesNo 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?  YesNo	Subregion (LRR or MLRA): LRR U	Lat: <u>28.96209</u>	91Long:82.6	56719	Datum:WGS84
Are Vegetation Soil or Hydrology significantly disturbed? Are circumstances normal? 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. Hydrology (Vegetation Present)? Yes / No / Yes / Yes / No / Yes / No / Yes / Yes / No / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Ye	Soil Map Unit Name: Boca fine sand		·	NWI classification	: <u>NA</u>
Are Vegetation Soil or Hydrology significantly disturbed? Are circumstances normal? 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. Hydrology (Vegetation Present)? Yes / No / Yes / Yes / No / Yes / No / Yes / Yes / No / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Yes / Yes / No / Yes / Ye	Are climatic / hydrologic conditions on the site typ	oical for this time of year?	Yes <u></u> ✓	_ No	(If no, explain in Remarks)
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   Yes / No   Is the Sampled Area within a Wetland? Yes / No   No   Yes / No   Yes / No   Is the Sampled Area within a Wetland? Yes / No   Yes / Yes / No   Yes / No   Yes / No   Yes / Yes / No   Yes / Yes / No   Yes / Yes / No   Yes / Yes / No   Yes / Yes / No   Yes / Yes / No   Yes / Yes / Yes / No   Yes / Yes / Yes / Yes / No   Yes / Yes / Yes / No   Yes / Yes	Are Vegetation, Soil,	or Hydrology			
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Wetland Hydrology Indicators:  Wetland Hydrology Indicators:  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  Water-Stained Leaves (B9)  Sparsely Vegetated Concave Surface (B8)  High Water Table (A2)  Aquatic Fauna (B13)  Drainage Patterns (B10)  Water Marks (B1)  Water Marks (B1)  Water Marks (B1)  Dry-Season Water Table (C2)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Indin Muck Surface (C7)  Indin Deposits (B5)  Indin Muck Surface (C7)  Indin Muck Surface (C7)  Shallow Aquitard (D3)  FAC Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland  Hydrology  Present?  Yes No Depth (inches):  Wetland  Hydrology  Present?  Yes No  Depth (inches):  Wetland  Hydrology  Present?  Yes No  Depth (inches):  Wetland  Hydrology  Present?  Yes No  Depth (inches):  Wetland  Hydrology  Present?  Yes No  Saturation Fresent?  Yes No  Depth (inches):  Wetland  Hydrology  Present?  Yes No  Present?  Yes No  Depth (inches):  Wetland  Hydrology  Present?  Yes No  Present?  Yes				(If needed, explain	any answers in Remarks)
Hydric Soil Present?  Wetland Hydrology Present?  Wetland Hydrology Present?  Wetland Hydrology Indicators:  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Water Staturation (A3)  Marl Deposits (B15) (LRR U)  Moss Trim Lines (B16)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Dirth Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Thin Muck Surface (C7)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  FAC Neutral Test (D5)  Field Observations:  Saturation Present?  Yes No Depth (inches):  Wetland Hydrology Present? Yes No Depth (inches):  Wetland Hydrology Present? Yes No More Inches):  Wetland Hydrology Present? Yes No More Inches In	SUMMARY OF FINDINGS - Attach sit	te map showing sampl	ing point locations, t	ransects, impo	rtant features, etc.
Wetland Hydrology Present?  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9)  Sparsely Vegetated Concave Surface (B8)  High Water Table (A2)  Aquatic Fauna (B13)  Marl Deposits (B15) (IRR U)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Oxidized Rhizospheres on Living Roots (C3)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Inim Muck Surface (C7)  Inim Muck Surface (C7)  Shallow Aquitard (D3)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  FAC Neutral Test (D5)  Wetland  Wetland Hydrology  Present?  Yes No Depth (inches):  Wetland  Wetland Hydrology  Present?  Yes No Depth (inches):  Wetland  Wetland  Hydrology  Present?  Yes No Depth (inches):  Wetland  Hydrology  Present?  Yes No No Depth (inches):  No Present?  Yes No No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes No Present?  Yes Yes Yes No Present?  Yes Yes Yes No Present?  Yes Yes Yes No Present?  Yes Yes Yes Yes No Present?  Yes Yes Yes Yes No Present?	Hydrophytic Vegetation Present?	Yes ✓ No		. <u>-</u>	
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Drainage Patterns (B10)  Saturation (A3)  Marl Deposits (B15) (LRR U)  Moss Trim Lines (B16)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Dry-Season Water Table (C2)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Cither (Explain in Remarks)  FAC Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes  No  Depth (inches):  Wetland  Hydrology  Present?  Yes  No  Depth (inches):  Wetland  Hydrology  Present?  Yes  No  Present?  Yes	Hydric Soil Present?	Yes/ No	Is the Sampled Area v	vithin a Wetland?	Yes No
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Water Marks (B1)  Water Marks (B1)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Algal Mat or Crust (B4)  Inon Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water (A1)  Secondary Indicators (minimum of two required)  Surface (B8)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation (A3)  Algal Mat or Crust (B4)  Inon Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland  Hydrology  Present? Yes No Mo Hydrology  Present? Yes No Mo March (A1)  Present? Yes No Mo March (A1)  Wetland  Hydrology  Present? Yes No Mo March (A1)  Saturation Visible on Accompliance (A2)  Wetland  Hydrology  Present? Yes No Mo Moss Trim Lines (B16)  Surface Water Present? Yes No Moss Trim Lines (B16)  Surface Water Present? Yes No Moss Trim Lines (B16)  Surface Water Present? Yes You No Moss Trim Lines (B16)  Drainage Patterns (B10)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Saturation Present?  Yes No Depth (inches):  Wetland  Hydrology  Present? Yes You No Moss Trim Lines (B16)  Surface Water Present? Yes You No Moss Trim Lines (B16)  Surface Water Present? Yes You No Moss Trim Lines (B16)  Surface Water Present? Yes You No Moss Trim Lines (B16)  Surface Water Present? Yes You No Moss Trim Lines (B10)  Surface Water Present? Yes You No Moss Trim Lines (B16)  Surface Water Present? Yes You No Moss Trim Lines (B16)  Surface Water Present? Yes You No Moss Trim Lines (B16)  Surface Water P	Wetland Hydrology Present?	Yes✓No			
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Marl Deposits (B15) (LRR U)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water (A1)  Water Stained Leaves (B9)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  FAC Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland  Hydrology  Present? Yes No No —  No —  Depth (inches):  Wetland  Hydrology  Present? Yes ✓ No —  No —  No —  Depth (inches):  Wetland  Hydrology  Present? Yes ✓ No —  No —  No —  No —  Depth (inches):  Present? Yes ✓ No —  No —  No —  Depth (inches):  Present? Yes ✓ No —  No —  No —  Depth (inches):  No —  No —  Depth (inches):  Present? Yes ✓ No —  No —  No —  No —  Depth (inches):  No —  Depth (inches):  No —  No —  Depth (inches):  Present? Yes ✓ No —  No —  No —  No —  Depth (inches):  Present? Yes ✓ No —  Depth (inches):  No —  Depth (inches):  No —  Depth (inches):  No —  Depth (inches):  Present? Yes ✓ No —  Depth (inches):  No —  Depth (inches):  No —  Depth (inches):  Present? Yes ✓ No —  Depth (inches):  No —  Depth (inches):  Present? Yes ✓ No —  Depth (inches):  Depth (inches):  Present? Yes ✓ No —  Depth (inches):  Depth (i	Remarks:				
HYDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Marl Deposits (B15) (LRR U)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Presence of Reduced Iron (C4)  Algal Mat or Crust (B4)  Recent Iron Reduction in Tilled Soils (C6)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water (A1)  Water Stained Leaves (B9)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)  Shallow Aquitard (D3)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  FAC Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland  Hydrology  Present? Yes No No —  No —  Depth (inches):  Wetland  Hydrology  Present? Yes ✓ No —  No —  No —  Depth (inches):  Wetland  Hydrology  Present? Yes ✓ No —  No —  No —  No —  Depth (inches):  Present? Yes ✓ No —  No —  No —  Depth (inches):  Present? Yes ✓ No —  No —  No —  Depth (inches):  No —  No —  Depth (inches):  Present? Yes ✓ No —  No —  No —  No —  Depth (inches):  No —  Depth (inches):  No —  No —  Depth (inches):  Present? Yes ✓ No —  No —  No —  No —  Depth (inches):  Present? Yes ✓ No —  Depth (inches):  No —  Depth (inches):  No —  Depth (inches):  No —  Depth (inches):  Present? Yes ✓ No —  Depth (inches):  No —  Depth (inches):  No —  Depth (inches):  Present? Yes ✓ No —  Depth (inches):  No —  Depth (inches):  Present? Yes ✓ No —  Depth (inches):  Depth (inches):  Present? Yes ✓ No —  Depth (inches):  Depth (i					
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)					`.
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)					
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)	HADBOI OCA				
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Marl Deposits (B15) (LRR U)  Water Marks (B1)  Hydrogen Sulfide Odor (C1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Saturation Visible on Aerial Imagery (C9)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Thin Muck Surface (C7)  Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remarks)  FAC Neutral Test (D5)  Field Observations:  Surface Water Present?  Yes No Depth (inches):  Wetland  Hydrology  Present? Yes No No  Includes capillary fringe)				Secondary Indicat	ore (minimum of two required)
Surface Water (A1)Water-Stained Leaves (B9)Sparsely Vegetated Concave Surface (B8)Sparsely Vegetated Concave Surface (B8)	i ''	shook all that apply)			
High Water Table (A2)Aquatic Fauna (B13)Drainage Patterns (B10)  ✓ Saturation (A3)Marl Deposits (B15) (LRR U)			(DO)		, ,
✓ Saturation (A3)      Marl Deposits (B15) (LRR U)      Moss Trim Lines (B16)         Water Marks (B1)      Hydrogen Sulfide Odor (C1)      Dry-Season Water Table (C2)        Sediment Deposits (B2)      Oxidized Rhizospheres on Living Roots (C3)      Crayfish Burrows (C8)        Drift Deposits (B3)      Presence of Reduced Iron (C4)      Saturation Visible on Aerial Imagery (C9)        Algal Mat or Crust (B4)      Recent Iron Reduction in Tilled Soils (C6)      Geomorphic Position (D2)        Iron Deposits (B5)      Thin Muck Surface (C7)      Shallow Aquitard (D3)        Inundation Visible on Aerial Imagery (B7)      Other (Explain in Remarks)      FAC Neutral Test (D5)         Field Observations:         Surface Water Present?       Yes No Depth (inches):         Wetland Hydrology         Wetland Hydrology         Includes capillary fringe)	· '		(69)		
Water Marks (B1)Hydrogen Sulfide Odor (C1)Dry-Season Water Table (C2)  Sediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)Crayfish Burrows (C8)  Drift Deposits (B3)Presence of Reduced Iron (C4)Saturation Visible on Aerial Imagery (C9)  Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)Geomorphic Position (D2)  Iron Deposits (B5)Thin Muck Surface (C7)Shallow Aquitard (D3)  Inundation Visible on Aerial Imagery (B7)Other (Explain in Remarks)FAC Neutral Test (D5)  Field Observations:  Surface Water Present? YesNoDepth (inches): Water Table Present? YesNoDepth (inches): Saturation Present? YesNoDepth (inches): Wetland Hydrology Present? YesNo	<del></del> -		20.11		• •
Sediment Deposits (B2)Oxidized Rhizospheres on Living Roots (C3)Crayfish Burrows (C8)Saturation Visible on Aerial Imagery (C9)Saturation Visible on Aerial Imagery (C9)Shallow Aquitard (D3)Shallow Aquitard (D3)Shallow Aquitard (D3)Shallow Aquitard (D5)Shallow Aquitard (D5)	<del></del>		•		
Drift Deposits (B3)	<del></del>	-	• •		
Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (C6)Geomorphic Position (D2)Shallow Aquitard (D3)Shallow Aquita	<del></del>		• , ,	-	, ,
Iron Deposits (B5)Thin Muck Surface (C7)Shallow Aquitard (D3)Thin Muck Surface (C7)Shallow Aquitard (D3)TAC Neutral Test (D5)  Field Observations:  Surface Water Present? YesNoDepth (inches): Water Table Present? YesNoDepth (inches): Saturation Present? YesNoDepth (inches): (includes capillary fringe) Wetland Hydrology Present? YesNo	<del></del> ' ' '		• •		* * * * /
Inundation Visible on Aerial Imagery (B7)Other (Explain in Remarks)FAC Neutral Test (D5)  Field Observations:  Surface Water Present? YesNo✓_Depth (inches): Water Table Present? YesNo✓_Depth (inches): Saturation Present? Yes✓_NoDepth (inches):3  Wetland Hydrology (includes capillary fringe)			, ,		· ·
Field Observations:           Surface Water Present?         YesNo	<del></del>				, ,
Surface Water Present?         YesNo/		Other (Explain in Rema	irs)	FAC Neutral	rest (D5)
Water Table Present? Yes No Depth (inches): Wetland Saturation Present? Yes No Depth (inches): 3 Hydrology (includes capillary fringe) Present? Yes No No No No No No No No No No No No No		Von No ✓	Donth (inches):		
Saturation Present?  Yes No Depth (inches):3				-	
(includes capillary fringe) Present? Yes <a href="#">Yes</a> <a href="#">No</a>				Wetland	
		162 No	_ Depth (Inches):3	,	
		ing wall parial photos provious	n inconstitute) if available:	Present?	Yes <u> </u>
				· · · · · · · · · · · · · · · · · · ·	
	Remarks:				
Remarks:					
Remarks:					

County	//soil: Ci	trus-	Boca
SOIL			

SOIL							Sampling Point: 11		
Profile De	scription: (Describe	to the de	pth needed to doc	ument the indicator or	confirm the ab	sence of indicators.	)		
Depth	Matrix			Redox Features					
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc²	Texture	Remarks		
0-7	10 YR 4/2		10 YR 3/1	<del></del>		few fine roots	dark grayish brown fine sand		
						few medium			
			10 YR 6/6; 10			distinct mottles			
7 20	10 VD 6/4		,			and streaks	light vallouish brown fine and		
7-20	10 YR 6/4		YR 7/2				light yellowish brown fine sand		
						common medium			
20-39	10 YR 7/4		10 YR 6/6			distinct mottles	very pale brown fine sand		
39-80	10 YR 7/3						very pale brown fine sand		
					· <del></del>				
	. —				. ——				
		letion, RM	I=Reduced Matrix, (	CS=Covered or Coated	Sand Grains.	<sup>2</sup> Location: PL=Por			
	il Indicators:						Indicators for Problematic Hydric Soils 3:		
Histol	(A1)			Polyvalue Below Su	ırface (S8) (LRR	! S, T, U)	1 cm Muck (a9) (LRR O)		
Histic	Epidon (A2)			Thin Dark Surface (	(S9) (LRR S, T,	U)	2 cm Muck (A10) (LRR S)		
	Histic (A3)			Loamy Mucky Mine			Reduced Vertic (F18) (outside MLRA 150A, B)		
	gen Sulfide (A4)			Loamy Gleyed Matr		•	Piedmont Floodplain Soils (F19) (LRR P, S, T)		
	ied Lavers (A5)			Depleted Matrix (F3					
	ic Bodies (A6) (LRR F	D T III		Redox Dark Surface			Anomalous Bright Loamy Soils (F20)		
				<del></del>			(MLRA 153B)		
5 cm I	Mucky Mineral (A7) (L	RR P,T,U	)	Depleted Dark Surf	ace (F7)		Red Parent Material (TF2)		
✓ Muck	Presence (A8) (LRR	U)		Redox Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)		
		-,					Other (Explain in Remarks)		
1 cm I	Muck (A9) (LRR P,T)			Marl (F10) (LRR U)	1		Other (Explain in Remarks)		
Deple	ted Below Dark Surfac	ce (A11)		Depleted Orchric (F	11) (MLRA 151	)			
	Dark Surface (A12)	(,		Iron-Manganese Ma		-			
_	` '						<sup>3</sup> Indicators of hydrophytic vegetation and wetland		
Coast	Prairie Redox (A16) (	MLRA 15	0A)	Umbric Surface (F1	13) (LRR P, T, U	)	hydrology must be present, unless disturbed or		
	. M. ala. Minagal (C4) (			Delta Orchric (F17)	(MI DA 151)	problematic.			
	Mucky Mineral (S1) (	LKK U, S	,		-				
	Gleyed Matrix (S4)			Reduced Vertic (F1					
Sandy	Redox (S5)			Piedmont Floodplai	n Soils (F19) (M	LRA 149A)			
Stripp	ed Matrix (S6)			Anomalous Bright L	oamy Soils (F20	) (MLRA 149A, 153C	, 153D)		
Dod.	Curfoso (C7) // DD D	C T III							
	Surface (S7) (LRR P,								
1	e Layer (If observed)	):							
1	Type:								
ĺ	Depth (inches):					Hydric Soil Presen	it? Yes ✓ No		
Remarks:	la la la					1.			
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Project/Site: Levy Baseload Transmission Progra	ım ICR	City/County: Citrus		Sampling Date:	11/3/09	
Applicant/Owner: Progress Energy Florida, Inc.	m, core					
Investigator(s): Blake Meineke, Amy Piko		State:FLSampling Point:12  Section, Township, Range:36 17S 16E				
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, conv		Stor		
Subregion (LRR or MLRA): LRR U				-		
Soil Map Unit Name: Boca fine sand	Lat20.90213	56Long62.0.	NWI classification: N		2111. <u>*******</u>	
Are climatic / hydrologic conditions on the site typ	is all fact his time of war?		_ No (		)\(\)	
Are Vegetation, Soil,	•		Are circumstances n		No	
Are Vegetation, Soil,						
SUMMARY OF FINDINGS - Attach sit			(If needed, explain a	•	,	
Hydrophytic Vegetation Present?	YesNo	ing point locations, t	iansects, import	tant leatures,	etc.	
Hydric Soil Present?	YesNo	Is the Sampled Area w	rithin a Wetland?	Yes ✓ No		
Wetland Hydrology Present?	YesNo		Tomi a Weduna.	,00		
Remarks:	103	_				
HYDROLOGY			<del>Manual Land</del>			
Wetland Hydrology Indicators:			Secondary Indicator	s (minimum of two	 o required)	
Primary Indicators (minimum of one is required; of	theck all that apply)		Surface Soil C		<u> </u>	
Surface Water (A1)	Water-Stained Leaves (	(B9)		egetated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)	(55)	Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15) (LF	2R III	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	·		n Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	• •	Crayfish Burro	•		
Drift Deposits (B3)	Presence of Reduced In		•	ible on Aerial Imag	2004 (CO)	
Algal Mat or Crust (B4)	Recent Iron Reduction i			· ·	Jery (Ca)	
<del></del>	Thin Muck Surface (C7)	• • • • • • • • • • • • • • • • • • • •				
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	· · · · · · · · · · · · · · · · · · ·				
Field Observations:	Other (Explain in Rema	iks)	FAC Neutral 1	est (D3)		
Surface Water Present?	YesNo	Donth (inches):				
	Yes No					
Water Table Present?			Wetland			
Saturation Present?	Yes No	_ Depth (Inches):3	Hydrology			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ing well periol photos, previous	inspections) if available:	Present?	Yes <u>✓ No</u>		
Describe Necolded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), il avallable.				
Remarks:						
					ļ	
	•					

County/soil: Citrus- Boca	
CON	Complian Daint

Profile De Depth	scription: (Describe t Matrix	to the de	pth needed to doc		ne indicator or Features	confirm the ab	sence of indicators.)	•		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remarks	
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish bro		
			-				few medium			
			10 YR 6/6; 10				distinct mottles			
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish b	rown fine sand	
							common medium			
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown	fine sand	
39-80	10 YR 7/3							very pale brown	fine sand	
1=			. <del></del> .							
	Concentration, D=Depl	etion, RM	1=Reduced Matrix, C	S=Cove	red or Coated S	Sand Grains.	<sup>2</sup> Location: PL=Pore			
	il Indicators:			Б.1					blematic Hydric S	oils ":
Histol	· ,					face (S8) (LRR		1 cm Muck (as		
	Epidon (A2) Histic (A3)		-			S9) (LRR S, T, I		2 cm Muck (A		
_	gen Sulfide (A4)		-		ny Mucky Miner ny Gleyed Matri	al (F1) (LRR O)			ic (F18) (outside M	
	ed Layers (A5)		•		leted Matrix (F3)		•		dplain Soils (F19) (	
	ic Bodies (A6) (LRR P	. T. U)	•		ox Dark Surface		-	Anomalous Br (MLRA 153E	ight Loamy Soils (F	20)
	Mucky Mineral (A7) (LF		٠		eted Dark Surfa			Red Parent Ma	•	
	Presence (A8) (LRR L		•		ox Depressions	· •	•		Dark Surface (TF12	V (LBB T II)
1	Muck (A9) (LRR P,T)	,,	=		(F10) (LRR U)	(1 0)	•	Other (Explain	,	(LKK 1, 0)
	ted Below Dark Surfac	o (A11)	•			11) (MLRA 151)	· `	Calor (Explain	iii i terrano,	
ı— ·	Dark Surface (A12)	c (A11)	•		,	sses (F12) (LRI	D ∩ D T\	ı		
	Prairie Redox (A16) (I	MLRA 15	(A)		-	3) (LRR P. T. U			ophytic vegetation a present, unless dis	
	Mucky Mineral (S1) (L		•	—— Delta	a Orchric (F17)	(MLRA 151)		problematic.	present, unless dis	tarbed or
	Gleyed Matrix (S4)		,			B) (MLRA 150A,	, 150B)			
	Redox (S5)		•		•	Soils (F19) (MI	•			
	ed Matrix (S6)		_		•	, , ,	) (MLRA 149A, 153C,	, 153D)		
Dark S	Surface (S7) (LRR P, S	s T un	•		-			•		
	e Layer (If observed):		<del></del>							
	Type:						İ			
	Depth (inches):						Hydric Soil Present	t? Yes	✓ No	_
Remarks:							1		,,,,	
1										
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1										

Project/Site: Levy Baseload Transmission Progra	ım, LCR	City/County: Citrus		_Sampling Date:_	11/3/09	
Applicant/Owner: Progress Energy Florida, Inc.			-			
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range: 35 17S 16E				
Landform (hillslope, terrace, etc.):N/A		Local relief (concave, conv	/ex, none): none	Slo	ope (%):	
Subregion (LRR or MLRA): LRR U	Lat: 28,96134	48 Long: -82,65	57720	Da	tum: WGS84	
Soil Map Unit Name: Boca fine sand			NWI classification:			
Are climatic / hydrologic conditions on the site typ	oical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in	Remarks)	
Are Vegetation, Soil,	or Hydrology		Are circumstances		sNo	
	or Hydrology		(If needed, explain	any answers in R	emarks)	
SUMMARY OF FINDINGS - Attach sit	te map showing sampl	ing point locations, t	ransects, impo	rtant features	s, etc.	
Hydrophytic Vegetation Present?	YesNo		-			
Hydric Soil Present?	YesNo	Is the Sampled Area w	rithin a Wetland?	YesNo	' <del></del>	
Wetland Hydrology Present?	YesNo					
HYDROLOGY						
Wetland Hydrology Indicators:				ors (minimum of tv	vo required)	
Primary Indicators (minimum of one is required; o			Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (	(B9)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B15) (LF	•	Moss Trim L			
Water Marks (B1)	Hydrogen Sulfide Odor		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Burrows (C8)			
Drift Deposits (B3)	Presence of Reduced Ir	on (C4)Saturation		isible on Aerial Ima	agery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction i			Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	•	Shallow Aqu			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	ırks)	FAC Neutral	Test (D5)		
Field Observations:			ļ			
Surface Water Present?	Yes No		.			
Water Table Present?	Yes No <u> </u>		Wetland			
Saturation Present?	Yes No	Depth (inches):3-6	Hydrology			
(includes capillary fringe)	<del> </del>		Present?	Yes <u>✓</u> No	·	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:				
Remarks:						

VEGETATION - Use scientific nar	mes of plants			Sampling Point:	13
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status		
1.				Number of Dominant Species	
2.				That Are OBL, FACW, or FAC: 4 (A	1)
3.				Total Number of Dominant	
4.				Species Across All Strata: 4 (B	5)
5.				Percent of Dominant Species 100.00 (A	
6.		<del>.</del>		That Are OBL, FACW, or FAC:	√B)
7.				Prevalance Index worksheet:	
		= Total Cove		Total % Cover of: Multiply by:	
Sapling Stratum (Plot size:	)	- 10tai 00vc	•	OBL speciesx1=	
Salix spp.	10	yes	FACW	FACW speciesx2=	
2.				FAC species x3=	
3.				FACU speciesx4=	
4.				UPL species x5=	
5.				Column Totals: (A) (B	3)
6.					
7.				Prevalance Index = B/A =	
	10	= Total Cove	1	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size:	_)			✓ Dominance Test is 50%	
1.				Prevalence Index is ≤3.0 <sup>1</sup>	
2.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	1)
3.					-
4.				Indicators of hydric soil and wetland hydrology must	Ł
5.				be present, unless disturbed or problematic.	
6.				Definitions of Vegetation Strata:	
7.			***************************************	1	
	0	= Total Cove	r	Tree- Woody plants, excluding woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or more in height and 3 in. (7.6	3
Carex spp.	25	yes	FACW	cm) or larger in diameter at breast height (DBH).	
Centella asiatica	20	yes	FACW	Sapling- Woody plants, excluding woody vines,	
<ol><li>Cyperus spp.</li></ol>	20	yes	FACW	approximately 20 ft (6m) or more in height and less thar	ก 3 🏻
4. Cirsium spp.	10	no	FAC	in. (7.6 cm) DBH.	
<ol><li>Rhynchospora colorata</li></ol>	10	no	OBL	Shrub- Woody plants, excluding woody vines,	
Muhlenbergia capillaris	5	no	FACU	approximately 3 to 20 ft (1 to 6 m) in height.	
Andropogon glomeratus	5	no	FACW	Herb- All herbaceous (non-woody)plants, including	
8.				herbaceous vines, regardless of size. Includes woody	
9.				plants, except woody vines, less than approximately 3 ft	: (1
10.				m) in height.	
11.				Woody vine- All woody vines, regardless of height.	
12.		****			
Woody Vine Stratum (Plot size:	95	= Total Cove	г		
1.				,	
2.	<del></del>				
3.				ł., , , , ,	
<u>4.</u>				Hydrophytic	
5.		- Total O-		Vegetation Present? Yes No	<u></u>
Domarka: (If phase and list as a set	0	= Total Cove	Г	<u> </u>	$\dashv$
Remarks: (If observed, list morpho Percent cover estimates based on			roader con	nmunity.	

County/soil: Citrus- Boca	
SOU	Sampling Point:

SOIL								Sampling Point: 13	
	scription: (Describe (	to the de	pth needed to doci	ument t	he indicator or o	confirm the ab	sence of indicators.)		
Depth	Matrix			Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks	
0-7	10 YR 4/2		10 YR 3/1	—			few fine roots	dark grayish brown fine sand	
							few medium		
1			10 YR 6/6; 10				distinct mottles		
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand	
<del></del>	10 111 07 1						common medium	ing it yet the the transfer of the	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand	
39-80	10 YR 7/3		10 11( 0/0				district motiles	very pale brown fine sand	
39-00	10 TK 1/3							very pale brown line sand	
								<u> </u>	
	Concentration, D=Depl	etion, RM	I=Reduced Matrix, C	:S=Cov	ered or Coated S	and Grains.	<sup>2</sup> Location: PL=Pore		
Hydric So	il Indicators:						1	Indicators for Problematic Hydric Soils 3:	
Histol	(A1)			Poh	yvalue Below Surf	face (S8) (LRR	≀S, T, U) .	1 cm Muck (a9) (LRR O)	
Histic	Epidon (A2)			Thir	n Dark Surface (S	39) (LRR S, T, 1	U)	2 cm Muck (A10) (LRR S)	
Black	Histic (A3)		•	Loa	amy Mucky Minera	al (F1) (LRR O)	)	Reduced Vertic (F18) (outside MLRA 150A, B)	
	gen Sulfide (A4)		•		amy Gleyed Matrix		•	Piedmont Floodplain Soils (F19) (LRR P, S, T)	
	ied Layers (A5)		•		pleted Matrix (F3)		-	Anomalous Bright Loamy Soils (F20)	
	ic Bodies (A6) (LRR P	. T. U)			dox Dark Surface		-	(MLRA 153B)	
						• •			
	Mucky Mineral (A7) (LF		) -		pleted Dark Surfac		-	Red Parent Material (TF2)	
Muck	Presence (A8) (LRR I	J)	-	Rec	dox Depressions (	(F8)	,	Very Shallow Dark Surface (TF12) (LRR T, U)	
1 cm l	Muck (A9) (LRR P,T)			Mar	rl (F10) (LRR U)			Other (Explain in Remarks)	
		18.441	-		pleted Orchric (F1	4 AM DA 454			
	ted Below Dark Surfac	e (ATT)	-		•		•		
Thick	Dark Surface (A12)			Iron	n-Manganese Mas	sses (F12) (LR	R O, P,T) 3	<sup>3</sup> Indicators of hydrophytic vegetation and wetland	
Coast	Prairie Redox (A16) (I	MLRA 15	.0Δ)	Umbric Surface (F13) (LRR P, T, U)				hydrology must be present, unless disturbed or	
	, , ,		•		,			problematic.	
1	Mucky Mineral (S1) (L	-RR 0, 8	) .		lta Orchric (F17) (		·	problematic.	
	Gleyed Matrix (S4)				duced Vertic (F18)				
Sandy	Redox (S5)			Pier	dmont Floodplain	Soils (F19) (MI	LRA 149A)		
Stripp	ed Matrix (S6)			And	omalous Bright Lo	oamy Soils (F20	O) (MLRA 149A, 153C,	, 153D)	
	Surface (S7) (LRR P, \$	* T III			_			•	
							т	···	
1	e Layer (If observed):	:							
	Туре:						1		
	Depth (inches):						Hydric Soil Present	t? Yes No	
Remarks:									
1									
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i	•								

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date:_	11/4/09		
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Point:_	14		
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range: _ 35 17S 16E					
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, con	vex, none): none	Slo	pe (%):		
Subregion (LRR or MLRA): LRR U	Lat: 28.9615	54Long:82.6	60493	Dat	tum: WGS84		
Soil Map Unit Name: Boca fine sand				: NA			
Are climatic / hydrologic conditions on the site typ	pical for this time of year?	Yes	_ No	(If no, explain in f	Remarks)		
Are Vegetation, Soil,	or Hydrology		Are circumstances		sNo		
	or Hydrology		(If needed, explain	n any answers in Re	emarks)		
SUMMARY OF FINDINGS - Attach sit			ransects, impo	ortant features	, etc.		
Hydrophytic Vegetation Present?	YesNo				•		
Hydric Soil Present?	Yes No	is the Sampled Area v	vithin a Wetland?	Yes <u></u> ✓ No			
Wetland Hydrology Present?	Yes No	]					
Remarks:	TO PARKE STREET, THE STREET, T						
			***	·			
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of tw	o required)		
Primary Indicators (minimum of one is required; of	check all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)	Water-Stained Leaves	B9)Sparsely Vegetated Concave Surface			urface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)					
✓ Saturation (A3)	Marl Deposits (B15) (LI	RR U)	Moss Trim L	ines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)Crayfish Burrows (C8)					
Drift Deposits (B3)	Presence of Reduced I	ron (C4)Saturation Visible on Aerial Imagery (C9)			agery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction						
Iron Deposits (B5)	Thin Muck Surface (C7						
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema						
Field Observations:			1				
Surface Water Present?	Yes No	_ Depth (inches):					
Water Table Present?	Yes No		1				
  Saturation Present?	Yes No		Wetland				
(includes capillary fringe)	<u> </u>	_ ' \	Hydrology Present?	Yes <u>✓ No</u>			
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previou	s inspections), if available:					
Remarks:							
				•			

County/soil:	Citrus-	Boca
SOIL		

SOIL							Sampling Point:14			
Profile De	scription: (Describe	to the de	pth needed to doc	ument the indicator or o	onfirm the ab	sence of indicators.	)			
Depth	Matrix			Redox Features	i					
(inches)	Color (moist)	%	Color (moist)	% Type'	Loc²	Texture	Remarks			
0-7	10 YR 4/2		10 YR 3/1			few fine roots	dark grayish brown fine sand			
						few medium	·			
			10 YR 6/6; 10			distinct mottles				
7-20	10 YR 6/4		YR 7/2			and streaks	light yellowish brown fine sand			
						common medium				
20-39	10 YR 7/4		10 YR 6/6			distinct mottles	very pale brown fine sand			
39-80	10 YR 7/3			<del></del>			very pale brown fine sand			
05-00	10 11( 7/0						very paic brown time dana			
		<u> </u>								
<b>.</b>			. <del></del>			7				
		letion, RM	=Reduced Matrix, (	CS=Covered or Coated S	and Grains.		e Lining, M=Matrix.			
	il Indicators:						Indicators for Problematic Hydric Soils 3:			
Histol				Polyvalue Below Sur			1 cm Muck (a9) (LRR O)			
Histic	Epidon (A2)			Thin Dark Surface (S			2 cm Muck (A10) (LRR S)			
Black	Histic (A3)			Loamy Mucky Minera	i (F1) (LRR O)	1	Reduced Vertic (F18) (outside MLRA 150A, B)			
Нудго	gen Sulfide (A4)			Loamy Gleyed Matrix	c (F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)			
Stratif	ied Layers (A5)			Depleted Matrix (F3)			Anomalous Bright Loamy Soils (F20)			
Organ	ic Bodies (A6) (LRR F	P, T, U)		Redox Dark Surface	(F6)		(MLRA 153B)			
5 cm !	Mucky Mineral (A7) (L	RRPTII	١	Depleted Dark Surfa	ce (F7)		Red Parent Material (TF2)			
			,	Redox Depressions			Very Shallow Dark Surface (TF12) (LRR T, U)			
	Presence (A8) (LRR	U)			(F0)					
1 cm I	Muck (A9) (LRR P,T)			Marl (F10) (LRR U)			Other (Explain in Remarks)			
Denie	ted Below Dark Surfac	·ρ (Δ11)		Depleted Orchric (F1	1) (MLRA 151	١				
	Dark Surface (A12)	~ (/ \		Iron-Manganese Mas		•				
							<sup>3</sup> Indicators of hydrophytic vegetation and wetland			
Coast	Prairie Redox (A16) (	MLRA 15	0A)	Umbric Surface (F13) (LRR P, T, U)			hydrology must be present, unless disturbed or			
Sandy	Mucky Mineral (S1) (	RROS	١	Delta Orchric (F17) (	MLRA 151)		problematic.			
	Gleyed Matrix (S4)		<b>,</b>	Reduced Vertic (F18		150R)				
	Redox (S5)			Piedmont Floodplain						
	• •			<del>_</del>		•	4500)			
Stripp	ed Matrix (S6)			Anomalous Bright Lo	amy Solis (F20	)) (MLRA 149A, 153C	, 1530)			
Dark S	Surface (S7) (LRR P,	S, T, U)								
Restrictiv	e Layer (If observed)	:								
	Type:									
	Depth (inches):					Hydric Soil Presen	t? Yes ✓ No			
Remarks:	Dopur (moneo).		<del></del>			111,0110 00111 100011				
Tellarks.	•									
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Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus	•	Sampling Date:	11/4/09	
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Point: 15		
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range				
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, convex, none): none Slop			De (%):	
Subregion (LRR or MLRA): LRR U				 Dati		
Soil Map Unit Name: Boca fine sand			NWI classification	n: NA		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes✓	_ No	_ (If no, explain in R	emarks)	
	or Hydrology		Are circumstance		No	
	or Hydrology		(If needed, explain	n any answers in Re	marks)	
SUMMARY OF FINDINGS - Attach sit			•	•		
Hydrophytic Vegetation Present?	YesNo					
Hydric Soil Present?	Is the Sampled Area v	vithin a Wetland?	YesNo	·····		
Wetland Hydrology Present?	Yes No					
HYDROLOGY			Sacandan Indica	tore (minimum of tue	o required)	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; c	hook all that apply)		Surface Soil	tors (minimum of two	o required)	
	Water-Stained Leaves	(P0)		getated Concave Si	ufaca (D9)	
Surface Water (A1)	Aquatic Fauna (B13)	(69)	Drainage Patterns (B10)			
High Water Table (A2)	• • • • • • • • • • • • • • • • • • • •	DD III	<del></del>	, ,		
✓ Saturation (A3)	Marl Deposits (B15) (LI		Moss Trim L			
Water Marks (B1)	Hydrogen Sulfide Odor	•	Dry-Season Water Table (C2)Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayrish Burrows (C6)Saturation Visible on Aerial Imagery (C9			
Drift Deposits (B3)	Presence of Reduced I				gery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction					
Iron Deposits (B5)	Thin Muck Surface (C7	·		•		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	FAC Neutra	rest (D5)		
Field Observations:	v No /	Dorth (inches)				
Surface Water Present?	YesNo		-			
Water Table Present?	Yes No		Wetland			
Saturation Present?	Yes No	_ Depth (inches):3	Hydrology			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previou	s inspections), if available:	Present?	Yes <u>✓</u> No		
Remarks:						
Remarks:	_					
,						

O 11.	0:4	D
County/soil:	Citrus-	воса

Profile Do	scription: (Describe					e		
		to the de	pth needed to doc			confirm the abs	sence of indicators.	)
Depth	Matrix				Features			
inches)	Color (moist)	%	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc²	Texture	Remarks
)-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	
00	40 VD 014		10 YR 6/6; 10				distinct mottles	Kalatara Nasalah kancara Sanan anad
-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
	40.VD 7/4		10.45.00				common medium	
0-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
9-80	10 YR 7/3							very pale brown fine sand
								**************************************
	<del></del>							
	-							
	Concentration, D=Dept	etion, RM	=Reduced Matrix, (	CS=Cover	ed or Coated Sa	and Grains.	*Location: PL=Por	e Lining, M=Matrix.
	il Indicators:							Indicators for Problematic Hydric Soils 3:
Histol						face (S8) (LRR		1 cm Muck (a9) (LRR O)
	Epidon (A2)					9) (LRR S, T, L	J)	2 cm Muck (A10) (LRR S)
	Histic (A3)					al (F1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				y Gleyed Matrix	(F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)				ted Matrix (F3)	(F6)		Anomalous Bright Loamy Soils (F20)
	nic Bodies (A6) (LRR P				x Dark Surface			(MLRA 153B)
5 cm 1	Mucky Mineral (A7) (LI	RR P,T,U	)	Deple	ted Dark Surfac	ce (F7)		Red Parent Material (TF2)
Muck	Presence (A8) (LRR I	U)		Redo:	x Depressions (	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
	Muck (A9) (LRR P,T)			Marl (	F10) (LRR U)			Other (Explain in Remarks)
_								
	ted Below Dark Surfac	e (A11)			•	1) (MLRA 151)		
Thick	Dark Surface (A12)			Iron-N	Manganese Mas	ses (F12) (LRF	R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (I	MLRA 15	0A)	Umbr	ic Surface (F13	) (LRR P, T, U)		hydrology must be present, unless disturbed or
Cond	/ Mucky Mineral (S1) (I	прос	,	Delta	Orchric (F17) (	MI DA 151)		problematic.
		LKK U, 3	,			•		F
	Gleyed Matrix (S4)					) (MLRA 150A,		
	Redox (S5)					Soils (F19) (ML	•	4500)
_ · ·	ed Matrix (S6)			Anom	alous Bright Lo	amy Soils (F20	) (MLRA 149A, 153C	, 153D)
	Surface (S7) (LRR P, S							
estrictiv	e Layer (If observed)	:						
	u, (u,							
	Type:						Hydric Soil Preser	nt? Yes √ No
							,	nt? Yes <u>✓ No</u> .
	Type:						1.1,2.1.0 00.1.1.1000.	Tr Yes V No .
	Type:						1	ITY YES V NO
	Type:						, , , <b>, .</b>	TY YES V NO
	Type:						<u>                                     </u>	nt/ Yes _ v _ No
	Type:						<u>, , , , , , , , , , , , , , , , , , , </u>	nt/ Yes V No
	Type:						<u>, , , , , , , , , , , , , , , , , , , </u>	TY YES V NO
	Type:						<u>                                     </u>	NO
	Type:						<u>, , , , , , , , , , , , , , , , , , , </u>	nt/ Yes <u>√</u> No
	Type:						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	nt/ Yes _v_ No
	Type:						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NO
	Type:						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NO
	Type:						, , , , , , , , , , , , , , , , , , ,	nt/ Yes <u>√</u> No
	Type:						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	nt/ Yes <u>√</u> No
	Type:						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Yes
	Type:						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Yes
	Type:						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TY YES
	Type:						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	TY YES V NO
	Type:						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Yes
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	Type:							TY YES V NO V
	Type:							Yes
	Type:							TY YES NO
	Type:							TY YES V NO
	Type:							TY YES V NO
	Type:							TY YES

Project/Site: Levy Baseload Transmission Progra	am, LCR	City/County: Citrus		_Sampling Date:	11/4/09	
Applicant/Owner: Progress Energy Florida, Inc.		State: FI	<u> </u>	Sampling Point: 16		
Investigator(s): Blake Meineke, Amy Piko		Section, Township, Range: 35 17S 16E				
Landform (hillslope, terrace, etc.): N//	4	Local relief (concave, convex, none): none Slope			oe (%):	
Subregion (LRR or MLRA): LRR U	Lat:28.96220	04 Long: -82.6	62865	Dati	um: <u>WGS84</u>	
Soil Map Unit Name: Boca fine sand		<del>.</del>	NWI classification	: <u>NA</u>		
Are climatic / hydrologic conditions on the site type	pical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in R	emarks)	
Are Vegetation, Soil,	or Hydrology		Are circumstances		No	
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain	any answers in Re	marks)	
SUMMARY OF FINDINGS - Attach si	te map showing sampl	ing point locations,	transects, impo	rtant features,	etc.	
Hydrophytic Vegetation Present?	Yes <u>√</u> No					
Hydric Soil Present?	Is the Sampled Area	vithin a Wetland?	Yes/_No			
Wetland Hydrology Present?	]	,				
Remarks:						
HYDROLOGY				107-004		
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two	o required)	
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Ve	getated Concave Su	urface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim L	ines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	1)Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)Crayfish Burrows (C8)				
Drift Deposits (B3)	Presence of Reduced In	ron (C4)Saturation Visible on Aerial Imagery (C			gery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction i	in Tilled Soils (C6)Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	7)Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	irks)	FAC Neutral	Test (D5)		
Field Observations:						
Surface Water Present?	Yes No		_			
Water Table Present?	Yes No	_ Depth (inches):				
Saturation Present?	Yes✓ No	_ Depth (inches):0	Wetland Hydrology			
(includes capillary fringe)			Present?	Yes <u>✓</u> No		
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous	s inspections), if available:				
Remarks:						
iremarks.						

VEGETATION - Use scientific nar	mes of plants				Sampling Poi	nt:16
				Dominance Test Works	heet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1. Quercus laurifolia	30	yes	FACW	Number of Dominant Spe		<u>3</u> (A)
Sabal palmetto	20	yes	FAC	That Are OBL, FACW, or		_
Fraxinus caroliniana	- 10 5	no	OBL	Total Number of Dominar		<u>3</u> (B)
Magnolia virginiana     5.		no	FACW	Species Across All Strata		
6.				Percent of Dominant Spe That Are OBL, FACW, or		100.00 (A/B)
7.	· ———			Prevalance Index works	<del></del>	*** ****
7.	· ———			+		
	. 65	= Total Cove	er	Total % Cover of:		iply by:
Sapling Stratum (Plot size:	)			OBL species	x1=	
1.				FACW species	x2=	
2. 3.				FAC species _	x3=	
3.				FACU species	x4=	
4.				UPL species	x5=	
5.				Column Totals:	(A)	(B)
6.				_		
7.				Brouglance Index =	D/A	
7.		- Tatal Caus		Prevalance Index =	<del></del>	
L	,	= Total Cove	er	Hydrophytic Vegetation		
Shrub Stratum (Plot size:	<u>_)</u> _			✓ Dominance Test is	s 50%	
Ilex cassine	20	yes	FACW	Prevalence Index		
2.				Problematic Hydro	phytic Vegetati	on <sup>1</sup> (Explain)
3.				]		
4.				Indicators of hydric soil a		
5.				be present, unless disturt		atic.
6.				Definitions of Vegetatio	n Strata:	
7.						
	20	= Total Cove	er	Tree- Woody plants, exclu-		
Herb Stratum (Plot size:)				approximately 20 ft (6m) or		
1.				cm) or larger in diameter a	t breast height (	⊅ВН).
2.				Sapling- Woody plants, ex		
3.				approximately 20 ft (6m) or	r more in height	and less than 3
4.				in. (7.6 cm) DBH.		
5.				Shrub- Woody plants, exc		
6.				approximately 3 to 20 ft (1		
7.				Herb- All herbaceous (non		
8.				herbaceous vines, regardle		
9. 10.		<del></del>		plants, except woody vines m) in height.	, iess tran appr	oximately 5 it (
	<u> </u>			4 ′ ŭ		
11.				Woody vine- All woody vir	ies, regardiess o	or neight.
12.						
	0	= Total Cove	er			
Woody Vine Stratum (Plot size:	)					
1.				]		
2.						
3.				]		
4.				Hydrophytic		
5.				Vegetation Present?	Yes	No
	0	= Total Cove	er	]		
Remarks: (If observed, list morph	ological adapta					
Percent cover estimates hased or	-		roader co	mmunity		

County/soil: Citrus- Boca

	Hydric Soils <sup>3</sup> : ) S) utside MLRA 150A, B)
0-7 10 YR 4/2 10 YR 3/1 few fine roots dark grayish brown fine said few medium distinct mottles and streaks and streaks common medium distinct mottles and streaks light yellowish brown fine said streaks and streaks common medium distinct mottles very pale brown fine sand streaks to pale	eand  Hydric Soils <sup>3</sup> : ) S) utside MLRA 150A, B)
7-20 10 YR 6/4 YR 7/2 few medium distinct mottles and streaks light yellowish brown fine s common medium distinct mottles and streaks light yellowish brown fine s common medium distinct mottles very pale brown fine sand very p	Hydric Soils <sup>3</sup> : ) S) utside MLRA 150A, B)
7-20 10 YR 6/4 YR 7/2 distinct mottles and streaks light yellowish brown fine s common medium distinct mottles common medium distinct mottles very pale brown fine sand sand streaks and Hydric Soils <sup>3</sup> : ) S) utside MLRA 150A, B)	
7-20 10 YR 6/4 YR 7/2 and streaks common medium distinct mottles very pale brown fine s common medium distinct mottles very pale brown fine s and very pale brown fine sand ve	Hydric Soils <sup>3</sup> : ) S) utside MLRA 150A, B)
20-39 10 YR 7/4 10 YR 6/6 common medium distinct mottles very pale brown fine sand very pale bro	Hydric Soils <sup>3</sup> : ) S) utside MLRA 150A, B)
20-39 10 YR 7/4 10 YR 6/6 distinct mottles very pale brown fine sand v	) S) utside MLRA 150A, B)
39-80 10 YR 7/3 very pale brown fine sand  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (a9) (LRR O)  Histic Epidon (A2) Polyvalue Below Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR O)  Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (Plydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soil  Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy	) S) utside MLRA 150A, B)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Hydric Soil Indicators:  Histol (A1)  Histol Epidon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix, CS=Covered or Coated Sand Grains.  **Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Findicators (Poly LRR S, T, U)  1 cm Muck (A9) (LRR O)  1 cm Muck (A9) (LRR O)  2 cm Muck (A10) (LRR O)  Reduced Vertic (F18) (SO)  Piedmont Floodplain Soil  Anomalous Bright Loamy  Anomalous Bright Loamy	) S) utside MLRA 150A, B)
Hydric Soil Indicators:  Histol (A1)  Histol (A2)  Histol Epidon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Indicators for Problematic 1  1 cm Muck (A9) (LRR O)  1 cm Muck (A9) (LRR O)  2 cm Muck (A10) (LRR O)  2 cm Muck (A10) (LRR O)  Reduced Vertic (F18) (o  Piedmont Floodplain Soil  Anomalous Bright Loamy	) S) utside MLRA 150A, B)
Hydric Soil Indicators:  Histol (A1)  Histol (A2)  Histol Epidon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Indicators for Problematic 1  1 cm Muck (A9) (LRR O)  1 cm Muck (A9) (LRR O)  2 cm Muck (A10) (LRR O)  2 cm Muck (A10) (LRR O)  Reduced Vertic (F18) (o  Piedmont Floodplain Soil  Anomalous Bright Loamy	) S) utside MLRA 150A, B)
Hydric Soil Indicators:  Histol (A1)  Histol (A2)  Histol Epidon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Indicators for Problematic 1  1 cm Muck (A9) (LRR O)  1 cm Muck (A9) (LRR O)  2 cm Muck (A10) (LRR O)  2 cm Muck (A10) (LRR O)  Reduced Vertic (F18) (o  Piedmont Floodplain Soil  Anomalous Bright Loamy	) S) utside MLRA 150A, B)
Histol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (a9) (LRR O) Histic Epidon (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) (ou Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soil Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy	) S) utside MLRA 150A, B)
Histic Epidon (A2)  Thin Dark Surface (S9) (LRR S, T, U)  Black Histic (A3)  Loarny Mucky Mineral (F1) (LRR O)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Anomalous Bright Loarny	S) utside MLRA 150A, B)
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (or Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soil Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy	utside MLRA 150A, B)
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soil Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy	
Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy	
Organic bodies (Ao) (Lan F, 1, 0)	/ Soils (F20)
	•
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	
1 cm Muck (A9) (LRR P,T)Marl (F10) (LRR U)Other (Explain in Remark	ks)
Depleted Below Dark Surface (A11)Depleted Orchric (F11) (MLRA 151)	
Thick Dark Surface (A12)Iron-Manganese Masses (F12) (LRR O, P,T) 31-21-11-11-11-11-11-11-11-11-11-11-11-11	
Coast Prairie Redox (A16) (MLRA 150A)Umbric Surface (F13) (LRR P, T, U) hydrology must be present, ur	
mydrology must be present, at	niess disturbed or
Sandy Militeral (51) (ERK 6, 5)	
Sandy Gleyed Matrix (S4)Reduced Vertic (F18) (MLRA 150A, 150B)	
Sandy Redox (S5)Piedmont Floodplain Soils (F19) (MLRA 149A)Stripped Matrix (S6)Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	
Dark Surface (S7) (LRR P, S, T, U)	
Restrictive Layer (If observed):	
Type:   Depth (inches):   Hydric Soil Present? Yes _ ✓ _ N	ı.
Remarks:	<u>•</u>
reliars.	

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		Sampling Date; 11/4/09		
Applicant/Owner: Progress Energy Florida, Inc.		State: FL		Sampling Point: 17		
Investigator(s): Blake Meineke		Section, Township, Range: <u>35 17S 16E</u>				
Landform (hillslope, terrace, etc.):N/A		Local relief (concave, conv	vex, none): <u>none</u>		_Slope (%):	
Subregion (LRR or MLRA): LRR U	Lat:28.96145	2Long:82.66	63889		_Datum: WGS84	
Soil Map Unit Name: Boca fine sand		NWI classification	: NA			
Are climatic / hydrologic conditions on the site typ	Yes <u>✓</u>	_ No	(If no, explain	n in Remarks)		
• •	or Hydrology		Are circumstances normal? Yes_✓_No			
	or Hydrology		(If needed, explain			
SUMMARY OF FINDINGS - Attach sit				•	,	
Hydrophytic Vegetation Present?						
Hydric Soil Present?	is the Sampled Area w	ithin a Wetland?	Yes	_No		
Wetland Hydrology Present?						
Remarks:		1				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum	of two required)	
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil			
Surface Water (A1)	Water-Stained Leaves (	B9)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Aquatic Fauna (B13)	,	Drainage Pa	-		
✓ Saturation (A3)	Marl Deposits (B15) (LR	RU)	Moss Trim L			
Water Marks (B1)	Hydrogen Sulfide Odor	•		Water Table (	C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres	, ,	Crayfish Bur	,	02)	
Drift Deposits (B3)	Presence of Reduced In				I Imagery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction in			Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	• •		uitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remai			l Test (D5)		
Field Observations:	Ottlor (Explain in Normal	KO)	1	100((00)	<del></del>	
Surface Water Present?	Yes No	Denth (inches):				
Water Table Present?	Yes No		-[			
Saturation Present?	Yes No		Wetland			
	NO	Deptit (inches).	Hydrology Present?	Van (	Na	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor)	ing well serial photos previous	inspections) if available:	Present?	Yes <u>✓</u>	No	
Besonde Necorded Pala (Stream gauge, mession	ing wen, dental priotos, previous	mopeodono), n avanabio.				
Remarks:						

County/soil: Citrus- Boca
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SOIL	. Ollus Boos							Sampling Point:17
Profile Des	scription: (Describe t	to the de	oth needed to doc	ument tl	he indicator or c	onfirm the ab	sence of indicators.)	
Depth	Matrix			Redox	r Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	•
			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
							common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
Type: C=C	Concentration, D=Depl	etion, RM	=Reduced Matrix, (	CS=Cove	red or Coated Sa	ind Grains.	2Location: PL=Pore	Lining, M=Matrix.
	I Indicators:					··		Indicators for Problematic Hydric Soils 3:
Histol	(A1)			Poly	value Below Surfa	ace (S8) (LRR	S, T, U)	1 cm Muck (a9) (LRR O)
	Epidon (A2)				Dark Surface (St			2 cm Muck (A10) (LRR S)
	Histic (A3)				my Mucky Mineral			Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				my Gleyed Matrix		•	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)				leted Matrix (F3)	·· -/	•	Anomalous Bright Loamy Soils (F20)
	ic Bodies (A6) (LRR P	, T, U)			ox Dark Surfacé (	(F6)	•	(MLRA 153B)
5 cm l	Mucky Mineral (A7) (LF	DD D T II		—— Den	leted Dark Surfac	e (F7)		Red Parent Material (TF2)
			!		ox Depressions (I	. ,	•	Very Shallow Dark Surface (TF12) (LRR T, U)
_	Presence (A8) (LRR U	J)		_		ro)	-	
1 cm N	Muck (A9) (LRR P,T)			Mar	I (F10) (LRR U)			Other (Explain in Remarks)
Deplet	ed Below Dark Surfac	e (A11)		Dep	leted Orchric (F1	1) (MLRA 151)	)	
	Dark Surface (A12)	. ,		Iron	-Manganese Mas	ses (F12) (LRI	R O. P.T)	
	` '				oric Surface (F13)			Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (	MLKA 15	JA)				•	hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (L	LRR O, S	)	Delt	a Orchric (F17) (N	VILRA 151)	1	problematic.
Sandy	Gleyed Matrix (S4)			Red	uced Vertic (F18)	(MLRA 150A,	150B)	
Sandy	Redox (S5)			Pied	lmont Floodplain	Soils (F19) (MI	LRA 149A)	
Strippe	ed Matrix (S6)			Ano	malous Bright Loa	amy Soils (F20	) (MLRA 149A, 153C	, 153D)
Dark S	Surface (S7) (LRR P, S	S T III						
	Layer (If observed):						1	<del></del>
		•						
	Type: Depth (inches):						Hudria Cail Bracan	t? Yes ✓ No .
Remarks:	Depth (inches):						Hydric Soil Presen	tr res v No .
Remarks.								
•								
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i								
l								
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1								

Project/Site: Levy Baseload Transmission Progra	am, LCR	City/County: Citrus		_Sampling Date:	11/4/09	
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Point:		
Investigator(s): Blake Meineke		Section, Township, Range				
	\	Local relief (concave, convex, none): none Slope (%				
Subregion (LRR or MLRA): LRR U			· ·			
Soil Map Unit Name: Boca fine sand		<u> </u>	NWI classification:			
Are climatic / hydrologic conditions on the site type	nical for this time of year?	Yes ✓	_ No	•	?emarks)	
	or Hydrology		Are circumstances		s✓_No	
	or Hydrology		(If needed, explain			
SUMMARY OF FINDINGS - Attach si			•	•	•	
Hydrophytic Vegetation Present?	Yes ✓ No		po	· · · · · · · · · · · · · · · · · · ·	, 0.0.	
Hydric Soil Present?	= Is the Sampled Area within a Wetland? Yes✓No					
Wetland Hydrology Present?	Yes✓No Yes✓No	7				
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of tw	o required)	
Primary Indicators (minimum of one is required; of	check all that apply)		Surface Soil			
Surface Water (A1)	Water-Stained Leaves	(B9)		getated Concave S	urface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)	,	Drainage Pa		` ,	
✓ Saturation (A3)	Marl Deposits (B15) (LI	RR U)	Moss Trim Li			
Water Marks (B1)	Hydrogen Sulfide Odor	•	<del></del>	Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	• ,	Crayfish Buri	-		
Drift Deposits (B3)	Presence of Reduced I		<del></del>	isible on Aerial Ima	ngery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction			Position (D2)	.90.7 (00)	
tron Deposits (B5)	Thin Muck Surface (C7					
Inundation Visible on Aerial Imagery (B7)		<del></del>				
Field Observations:	outer (Explain in None		, , , to it out a	, 551 (2-5)		
Surface Water Present?	Yes No <u>&lt;</u>	Denth (inches):				
Water Table Present?	Yes No <u>✓</u>		-			
	Yes No		Wetland			
Saturation Present?	162 1/10	_ Depth (inches)0	Hydrology	V / N-		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ing well periol photos previou	e inepections) if available:	Present?	Yes <u>✓ No</u>		
Describe Necorded Data (Stream gauge, monitor	ing well, aeliai priotos, previou	s inspections), it available.				
Remarks:						
1						

VEGETATION - Use scientific na	mes or plants				Sampling Po	ли	18
				Dominance Test Worksh	neet:		
	Absolute %	Dominant	Indicator				
Tree Stratum (Plot size:)	Cover	Species?	Status				
Quercus laurifolia	40	yes	FACW	Number of Dominant Spe		4	(A)
Fraxinus caroliniana	20	yes	OBL	That Are OBL, FACW, or		<u> -</u>	( ',
Salix caroliniana	10	no	OBL	Total Number of Dominan		5	(B)
Sabal palmetto	10	no	FAC	Species Across All Strata:		-	<b>\</b> -7
Persea palustris	5	no	<u>NL</u>	Percent of Dominant Spec		80.00	(A/B)
6.				That Are OBL, FACW, or	FAC:		
7.				Prevalance Index works	heet:		
	85	= Total Cove	r	Total % Cover of:	<u>Mul</u>	ltiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=		
. · · · · · · · · · · · · · · · · · · ·				FACW species	x2=		_
1.				<del>-</del>			_
2.				FAC species	x3=		
3.				FACU species	x4=		_
4.				UPL species	x5=		
5.				Column Totals:	(A)		(B)
6.				1 -			_ ` '
7.		<del></del>		Prevalance Index = E	R/A -		
7.		T-1-1-0		<del></del>			
	0	= Total Cove	r	Hydrophytic Vegetation			
Shrub Stratum (Plot size:	_)			✓ Dominance Test is	50%		
Myrica cerifera	15	yes	FAC	Prevalence Index i	s ≤3.0 <sup>1</sup>		
2.				Problematic Hydro	phytic Vegeta	tion <sup>1</sup> (Ex	olain)
3.	-				, , , , , ,		,
4.	-			Indicators of hydric soil a	nd wetland hy	drology r	nust
5.				be present, unless disturb			
6.				Definitions of Vegetation	n Strata:		
7.							
• •	15	= Total Cove		Tree Mondy plants evalue	lina woody vin	00	
Hart Charles (Distains)	13	- Total Cove	•	Tree- Woody plants, exclude approximately 20 ft (6m) or			(7.6
Herb Stratum (Plot size:)	4.0		0.01	cm) or larger in diameter at	•		. (7.0
Pontederia cordata	- 10	yes	OBL	<b>↓</b> ' ⁻	_		
Eupatorium capillifolium	5	yes	FACU	Sapling- Woody plants, ex			
3.	- ——			approximately 20 ft (6m) or in. (7.6 cm) DBH.	more in neign	t and less	rian 3
<b>4</b> . 5.				<b>→</b> ' '	udina woodu vi	inaa	
6.	- ———			Shrub- Woody plants, excl approximately 3 to 20 ft (1 the			
7.	- ——			<del>- </del>			
8.	- ——			Herb- All herbaceous (non- herbaceous vines, regardle	• • • •	-	
9.				plants, except woody vines			-
10.	· <del></del>			m) in height.	, icoo alan app	, oxiii idtoi	, ( ,
	- ——			4 ′ *	oe rogardione	of hoight	
11.				Woody vine- All woody vin	es, regardiess	or neight.	•
12.	. ———			4			
	15	= Total Cove	r				
Woody Vine Stratum (Plot size:	)						
1.							
2.							-
3.							
4.				Hydrophytic			
5.				Vegetation Present?	Yes	No	<u>.</u>
		= Total Cove					
		ations below).		1			

Percent cover estimates based on meandering survey of the broader community.

County/soil: Citrus- Boca		
SOIL	Sampling Point:	18

	scription: (Describe t	o the de	oth needed to doc			confirm the ab	sence of indicators.	)
Depth	Matrix Calar (maint)		Color (or sich)		x Features	Loc <sup>2</sup>	Tardina	Domorko
(inches) 0-7	Color (moist) 10 YR 4/2	<u>%</u>	Color (moist) 10 YR 3/1	<u>%</u>	Type'		Texture few fine roots	Remarks dark grayish brown fine sand
0-7	10 11 4/2		10 110 3/1				few medium	dark grayish brown line sand
			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
,-20	10 11( 0/4		111772				common medium	ight yellother brown line said
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3		10 11( 0/0				distinct motics	very pale brown fine sand
03-00	10 11(7/0		<del></del>					very paid brown in a dana
Type: C=	Concentration, D=Deple	etion RM	=Reduced Matrix	S=Cov	ered or Coated S	Sand Grains	2 ocation: PL =Por	e Lining, M=Matrix.
	il Indicators:	Juon, 1 (11)	Troduced Made N, C			dira Granie.		Indicators for Problematic Hydric Soils 3:
Histol				Poh	value Below Su	rface (S8) (LRR		1 cm Muck (a9) (LRR O)
	Epidon (A2)		•		Dark Surface (			2 cm Muck (A10) (LRR S)
	Histic (A3)		•		my Mucky Miner			Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				my Gleyed Matri			Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)		•		leted Matrix (F3			Anomalous Bright Loamy Soils (F20)
	nic Bodies (A6) (LRR P	, T, U)			lox Dark Surface			(MLRA 153B)
	Mucky Mineral (A7) (LF		1	Der	leted Dark Surfa	ace (F7)		Red Parent Material (TF2)
	Presence (A8) (LRR L		,		lox Depressions	. ,		Very Shallow Dark Surface (TF12) (LRR T, U)
		••	•	_	•	` '		Other (Explain in Remarks)
	Muck (A9) (LRR P,T)				1 (F10) (LRR U)			Other (Explain in Nemarks)
Deple	ted Below Dark Surface	e (A11)			oleted Orchric (F			
Thick	Dark Surface (A12)			lron	-Manganese Ma	sses (F12) (LRI	R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (M	ILRA 15	DA) .	Um	bric Surface (F1	3) (LRR P, T, U)		hydrology must be present, unless disturbed or
	Mucky Mineral (S1) (L		•	Delt	ta Orchric (F17)	(MI RA 151)		problematic.
	Gleyed Matrix (S4)	.KK 0, 3	,		luced Vertic (F1	•	150D)	
	Redox (S5)				dmont Floodplair			
ı— ´	ed Matrix (S6)						) (MLRA 149A, 1530	1530)
ı— ··					maious Dright L	oarny Sons (1 20	) (MEION 143A, 133C	, 1000)
	Surface (S7) (LRR P, S							
Restrictiv	e Layer (If observed):							
	Type:							(D. )
<u></u>	Depth (inches):						Hydric Soil Preser	nt? Yes <u>✓</u> No
Remarks:								
							•	
1								
1								

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		Sampling Date: 11/4/09		
Applicant/Owner: Progress Energy Florida, Inc.		State:FL		Sampling Point: 19		
Investigator(s): Blake Meineke		Section, Township, Range: 35 17S 16E				
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, con-	vex, none): <u>none</u>	Slope (%):		
Subregion (LRR or MLRA): LRR U	Lat: 28.96130	01 Long: -82.6	67899	Datum: WGS84		
Soil Map Unit Name: Boca fine sand				NA		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in Remarks)		
	or Hydrology		Are circumstances			
	or Hydrology			any answers in Remarks)		
SUMMARY OF FINDINGS - Attach sit			ransects, impo	rtant features, etc.		
Hydrophytic Vegetation Present?	Yes✓No					
Hydric Soil Present?	Yes No	Is the Sampled Area v	vithin a Wetland?	YesNo		
Wetland Hydrology Present?	Yes✓_No					
Remarks:		<b>=</b>		- 4		
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)		
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil	<u>-</u>		
Surface Water (A1)	Water-Stained Leaves (	(B9)		getated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)	()	Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR UN	Moss Trim Li			
Water Marks (B1)	Hydrogen Sulfide Odor	•	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres	• •	rows (C8)			
Drift Deposits (B3)	Presence of Reduced in			isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction i	. ,	Geomorphic			
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aqui	• •		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema		FAC Neutral			
Field Observations:	Other (Explain III Nema	iks)	I AC Neutral	Test (DO)		
Surface Water Present?	Yes No	Donth (inches):	İ			
	Yes No		-			
Water Table Present?	Yes No		Wetland			
Saturation Present?	163 ND	_ Deptil (inches)6	Hydrology	Was de Na		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor)	ing well periot photos, provious	increations) if available:	Present?	YesNo		
Describe Recorded Data (stream gauge, monitor	ing well, aerial priotos, previous	s inspections), il avallable.				
Remarks:						

epth	escription: (Describe t Matrix	.o the dep	All fleeded to doc		Features	Ommin are ab	serice of malcators.	,		
			0-1 (			1.002	T4		Describe	
nches)	Color (moist)	- %	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remarks	
-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish bro	wn tine sand	
							few medium			
			10 YR 6/6; 10				distinct mottles			
-20	10 YR 6/4		YR 7/2				and streaks	light yellowish b	rown fine sand	
							common medium			
0-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown	fine sand	
			30 110 0/0				district motiles			
9-80	10 YR 7/3							very pale brown	nne sand	
vne: C=	Concentration, D=Dept	etion RM	=Reduced Matrix	CS=Cove	red or Coated Sa	and Grains	2Location: PL=Por	e Lining, M=Matrix,		
	il Indicators:	cuon, raw	-/ (Caacca ividalix,	JO-0040	ica di dodica de	ina Oranis.		Indicators for Pro	blomatia Uuduia	Calla 3.
						(OO) (I BB			•	Solls :
Histol					value Below Surf			1 cm Muck (as		
Histic	Epidon (A2)			Thin	Dark Surface (S!	9) (LRR S, T,	U)	2 cm Muck (A	10) (LRR S)	
Black	Histic (A3)			Loar	ny Mucky Mineral	I (F1) (LRR O)	<b>\</b>	Reduced Verti	c (F18) (outside	MLRA 150A, B)
	gen Sulfide (A4)				ny Gleyed Matrix				dplain Soils (F19	
	ied Layers (A5)				leted Matrix (F3)	(1 2)				
		T 11			ox Dark Surface	(FC)			ight Loamy Soils	(F2U)
Organ	nic Bodies (A6) (LRR P	, 1, 0)				• /		(MLRA 153E		
5 cm	Mucky Mineral (A7) (LF	RR P,T,U)	i	Depl	leted Dark Surfac	e (F7)		Red Parent Ma	aterial (TF2)	
 ✓ Muck	Presence (A8) (LRR I	n .		Red	ox Depressions (I	F8)		Very Shallow (	Dark Surface (TF	12) (LRR T II)
		,				. •,			•	, ( ,, _,
1 cm	Muck (A9) (LRR P,T)			Mari	(F10) (LRR U)			Other (Explain	in Remarks)	
Denle	ted Below Dark Surfac	ο (Δ11)		Den	leted Orchric (F1	1) (MI RA 151	١			
		c (ATT)			•		•			
J hick	Dark Surface (A12)			Iron-	Manganese Mas	ses (F12) (LR	R O, P, I)	3Indicators of hydro	ophytic vegetation	and wetland
	D 11 D 1 (440)	MI DA 150	141	Umb	ric Surface (F13)	(LRR P, T, U		hydrology must be		
Coast	Praine Redox (A16) ((						•		present, uness c	iistarbed or
	Prairie Redox (A16) (I		•					arablamatia		
	: Praine Redox (A16) (I / Mucky Mineral (S1) (L		•		a Orchric (F17) (I	MLRA 151)		problematic.		
Sandy	/ Mucky Mineral (S1) (L		•	Delt	, ,,	,		problematic.		
Sandy Sandy	/ Mucky Mineral (S1) (L / Gleyed Matrix (S4)		•	Delta	uced Vertic (F18)	(MLRA 150A	, 150B)	problematic.		
Sandy Sandy Sandy	/ Mucky Mineral (S1) (L / Gleyed Matrix (S4) / Redox (S5)		•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A)			
Sandy Sandy Sandy	/ Mucky Mineral (S1) (L / Gleyed Matrix (S4)		•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B)			
Sandy Sandy Sandy Stripp	/ Mucky Mineral (S1) (L / Gleyed Matrix (S4) / Redox (S5)	LRR O, S)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A)			
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (L y Gleyed Matrix (S4) y Redox (S5) yed Matrix (S6) Surface (S7) (LRR P, S	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A)			
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (L y Gleyed Matrix (S4) y Redox (S5) led Matrix (S6) Surface (S7) (LRR P, Se e Layer (If observed):	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A)			
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)		
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (L y Gleyed Matrix (S4) y Redox (S5) led Matrix (S6) Surface (S7) (LRR P, Se e Layer (If observed):	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A)	;, 153D)		·
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	No	
Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	·
Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	<u> ✓</u> No	
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	_ ✓ No	
Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	· · · · · · · · · · · · · · · · · · ·
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	No	•
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	_ ✓ No	
Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	· · · · · · · · · · · · · · · · · · ·
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	· .
Sandy Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	· · · · · · · · · · · · · · · · · · ·
Sandy Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	<u>.</u>
Sandy Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	·
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	·
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	•
Sandy Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	
Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	· · · · · · · · · · · · · · · · · · ·
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No _	
Sandy Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	· .
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	
Sandy Sandy Sandy Stripp Dark estrictiv	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	
Sandy Sandy Sandy Stripp Dark	y Mucky Mineral (S1) (Ly Gleyed Matrix (S4) y Redox (S5) ed Matrix (S6) Surface (S7) (LRR P, S e Layer (If observed): Type:	LRR (), (S) (S, T, U)	•	Delta	uced Vertic (F18) mont Floodplain	(MLRA 150A Soils (F19) (M	, 150B) LRA 149A) )) (MLRA 149A, 153C	;, 153D)	✓ No	

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date: 11/4/09			
Applicant/Owner: Progress Energy Florida, Inc.		State: FL Sampling Point: 20					
Investigator(s): Blake Meineke		Section, Township, Range: <u>35 17S 16E/ 34 17S 16E</u>					
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, conv	/ex, none): <u>none</u>	Slope (%):			
Subregion (LRR or MLRA): LRR U	Lat: 28.96175	i0 Long: -82.67	1575	Datum: WGS84			
Soil Map Unit Name: Boca fine sand			NWI classification	: <u>N/A</u>			
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>√</u>	_ No	(If no, explain in Remarks)			
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstances	s normal? Yes <u>✓ No</u>			
Are Vegetation, Soil	or Hydrology	_naturally problematic?	(If needed, explain	n any answers in Remarks)			
SUMMARY OF FINDINGS - Attach sit			ransects, impo	ortant features, etc.			
Hydrophytic Vegetation Present?	Yes No						
Hydric Soil Present?	Yes No	Is the Sampled Area w	ithin a Wetland?	YesNo			
Wetland Hydrology Present?	Yes No						
Remarks:				<del></del>			
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)			
Primary Indicators (minimum of one is required; c	check all that apply)		Surface Soil	Cracks (B6)			
✓ Surface Water (A1)	Water-Stained Leaves (	(B9)	Sparsely Ve	getated Concave Surface (B8)			
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pat				
✓ Saturation (A3)	Marl Deposits (B15) (LR	RR U)	(R U)Moss Trim Lines (B16)				
Water Marks (B1)	Hydrogen Sulfide Odor			Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres						
Drift Deposits (B3)	Presence of Reduced In			isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Recent Iron Reduction in		Position (D2)				
tron Deposits (B5)	Thin Muck Surface (C7)		uitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remai		FAC Neutral	•			
Field Observations:		<u> </u>	T				
Surface Water Present?	Yes No	Depth (inches): 0-2					
Water Table Present?	Yes No		1				
Saturation Present?	Yes No		Wetland				
(includes capillary fringe)	<u></u>		Hydrology Present?	Yes <u>✓ No</u>			
Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previous	inspections), if available:	J. 1-2				
Remarks:							
Tremand.							

VEGETATION - Use scientific nar	nes of plants			Sa	mpling Point:	20/21
	-			Dominance Test Worksh	eet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status	Niverban of Dansin and Case	:	
1.				Number of Dominant Spec That Are OBL, FACW, or F		(A)
2. 3.				Total Number of Dominant		
4.		<del></del>		Species Across All Strata:	<u>2</u>	(B)
5.	<del></del>	<del></del>		Percent of Dominant Spec	ies	
6.				That Are OBL, FACW, or F	14361 (16)	(A/B)
7.				Prevalance Index worksh	<del>~</del>	<del></del>
		= Total Cove		Total % Cover of:	Multiply by:	
Capling Stratum (Blot size)	_	- Total Cove	•		x1=	
Sapling Stratum (Plot size:	/			OBL species		
1.				FACW species	x2=	_
2.				FAC species	x3=	
3.				FACU species	x4=	_
4.				UPL species	x5=	_
5.				Column Totals:	(A)	(B)
6.				]		
7.				Prevalance Index = B	/A =	
		= Total Cove		Hydrophytic Vegetation I		
Shrub Stratum (Plot size:	1	, , , , , , , , , , , , , , , , , , , ,		✓ Dominance Test is		
				Prevalence Index is		
1. 2.				<del></del>		
				Problematic Hydrop	ohytic Vegetation¹ (Ex	(piain)
3. 4.				Indicators of hydric soil ar	nd watland hydrology	must
5.				be present, unless disturbe	ed or problematic	iliust
6.				Definitions of Vegetation	····	
7.	•			Deminions of vegetation	Otrata.	
,		= Total Cove		Tros Maady slasta avalud	ina waadu winaa	
Herb Stratum (Plot size:)	U	- Total Cove	•	Tree- Woody plants, excluding approximately 20 ft (6m) or		1 (7 6
1. Typha spp.	60	yes	OBL	cm) or larger in diameter at		(
Polygonum punctatum	30	yes	FACW	Sapling- Woody plants, exc	luding woody vines	
Ludwigia peruviana	10	no	OBL	approximately 20 ft (6m) or		s than 3
4. Juncus effusus	5	no	FACW	in. (7.6 cm) DBH.	ŭ	
5.				Shrub- Woody plants, exclu	ding woody vines,	
6.				approximately 3 to 20 ft (1 to	o 6 m) in height.	
7.				Herb- All herbaceous (non-		
8.				herbaceous vines, regardles		•
9.	·			plants, except woody vines, m) in height.	iess than approximate	ely 3 π (1
10.				4 ′ <u> </u>		
11.				Woody vine- All woody vine	es, regardiess of neigh	τ
12.						
		= Total Cove	r			
Woody Vine Stratum (Plot size:						
1.				-		
2.				-		
3. 4.				┧		
5.				Hydrophytic	Von / Na	
<u></u>		T-1 10		Vegetation Present?	YesNo	<del></del>
Department (Market et al. 1911)		= Total Cove	Γ	L	······································	
Remarks: (If observed, list morpho Percent cover estimates based or		•	roader cor	mmunity		

SOIL								Sampling Point: 20/2
	escription: (Describe	to the de	pth needed to doc			confirm the ab	sence of indicators.	.)
Depth	Matrix				x Features		<b>.</b>	
inches) )-7	Color (moist) 10 YR 4/2		Color (moist) 10 YR 3/1		Type <sup>1</sup>	Loc²	Texture few fine roots	Remarks dark grayish brown fine sand
	- 10 TR 4/2		10 113/1	. —				dark grayish brown line sand
			10 YR 6/6; 10				few medium distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
-20	. 10 113 0/4		TRIIZ			- ——	common medium	light yellowish brown line sand
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3		10 110 0/0	· —	-		thounce motion	very pale brown fine sand
15-00	. 10 111 170							very pale brown into sairo
				. —				
				-				
Type: C=	Concentration, D=Dep	letion, RM	M=Reduced Matrix,	CS=Cove	ered or Coated	Sand Grains.	<sup>2</sup> Location: PL=Por	re Lining, M=Matrix.
	oil Indicators:						<del></del>	Indicators for Problematic Hydric Soils 3:
Histol				Poly	value Below Su	urface (S8) (LRR	₹ S, T, U)	1 cm Muck (a9) (LRR O)
Histic	Epidon (A2)			Thin	ı Dark Surface /	(S9) (LRR S, T,	U)	2 cm Muck (A10) (LRR S)
	Histic (A3)			Loar	my Mucky Mine	eral (F1) (LRR O)	)	Reduced Vertic (F18) (outside MLRA 150A, B)
	ogen Sulfide (A4)				my Gleyed Matr			Piedmont Floodplain Soils (F19) (LRR P, S, T)
	fied Layers (A5)				eleted Matrix (F3			Anomalous Bright Loamy Soils (F20)
	nic Bodies (A6) (LRR I				tox Dark Surface	• •		(MLRA 153B)
	Mucky Mineral (A7) (L		J)		leted Dark Surf	, ,		Red Parent Material (TF2)
Muck	Presence (A8) (LRR	U)		Red	lox Depressions	រ (F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm	Muck (A9) (LRR P,T)			Marl	1 (F10) (LRR U)	,		Other (Explain in Remarks)
	eted Below Dark Surface			Dep	leted Orchric (F	F11) (MLRA 151	1)	
	: Dark Surface (A12)	ω (, ,			•	asses (F12) (LR	•	-
		DA 41			-	, , ,		<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coas	t Prairie Redox (A16) (	(MLKA 15	.0A)		•	13) (LRR P, T, U	")	hydrology must be present, unless disturbed or
	y Mucky Mineral (S1) (	LRR O, S	<i>i</i> )		ta Orchric (F17)			problematic.
	y Gleyed Matrix (S4)					18) <b>(MLRA 150A</b>		
	y Redox (S5)			_		in Soils (F19) (M	•	
Stripp	oed Matrix (S6)			Anor	malous Bright L	oamy Soils (F20	0) (MLRA 149A, 1530	C, 153D)
Dark	Surface (S7) (LRR P,	S, T, U)						
Restrictiv	e Layer (If observed)	):				-		
	Type:							
·	Depth (inches):						Hydric Soil Preser	nt? Yes <u>√</u> No
Remarks:								
l								

Project/Site: Levy Baseload Transmission Program	m, LCR	City/County: Citrus		Sampling Date:	11/5/09
Applicant/Owner: Progress Energy Florida, Inc.					
Investigator(s): Blake Meineke		Section, Township, Range		- ·····, ····· <u>-</u>	
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, conv		Slor	ne (%):
Subregion (LRR or MLRA): LRR U					
Soil Map Unit Name: Boca fine sand			NWI classification:	NA	
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes	_ No	(If no, explain in R	temarks)
Are Vegetation, Soil	or Hydrology	_significantly disturbed?	Are circumstances	normal? Yes	No
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain	any answers in Re	marks)
SUMMARY OF FINDINGS - Attach sit	e map showing sampli	ing point locations, t	ransects, impo	rtant features,	etc.
Hydrophytic Vegetation Present?	Yes/ No				
Hydric Soil Present?	Yes No	Is the Sampled Area w	ithin a Wetland?	YesNo	
Wetland Hydrology Present?	Yes No				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two	o required)
Primary Indicators (minimum of one is required; c	heck all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (	(B9)	Sparsely Ve	getated Concave S	urface (B8)
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)	
✓ Saturation (A3)	Marl Deposits (B15) (LR	RR U)	Moss Trim L	Lines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (	(C1)	Dry-Season	on Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	urrows (C8)	
Drift Deposits (B3)	Presence of Reduced Ire	on (C4)	Saturation V	isible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction in	n Tilled Soils (C6)	Geomorphic	Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	)	Shallow Aqu	itard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remar	rks)	FAC Neutral	Test (D5)	
Field Observations:					
Surface Water Present?	Yes No				
Water Table Present?	Yes No	_ Depth (inches):	Wetland		
Saturation Present?	Yes No	_ Depth (inches):0	Hydrology		
(includes capillary fringe)			Present?	Yes <u>✓                                    </u>	<del>_</del>
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous	inspections), if available:			

Percent cover estimates based on meandering survey of the broader community.

County/soil:	Citrus-	Boca
SOIL		

OIL								Sampling Point:
	scription: (Describe t	to the dep	oth needed to doo			onfirm the ab	sence of indicators.	.)
epth	Matrix				x Features	<del></del>		
nches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	
			10 YR 6/6; 10				distinct mottles	
-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
							common medium	
<b>)</b> -39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
3-80	10 YR 7/3							very pale brown fine sand
	_							·
		—						
							-	
C-	Concentration, D=Depl	ation Dis	- Dadward Matrix	CC-C	arad ar Cantad Cr	and Cooling	21 continue DI =Der	e Lining, M=Matrix.
		etion, Rivi	=Reduced Matrix,	US=COV	ered or Coated Sa	and Grains.	Location. PL=Por	Indicators for Problematic Hydric Soils 3:
	il Indicators:					(00) (1.55		
_Histol					yvalue Below Surf			1 cm Muck (a9) (LRR O)
	Epidon (A2)			Thir	n Dark Surface (S	9) (LRR S, T, 1	U)	2 cm Muck (A10) (LRR S)
Black	Histic (A3)			Loa	ımy Mucky Minera	I (F1) (LRR O)	ı	Reduced Vertic (F18) (outside MLRA 150A, B)
Hvdro	gen Sulfide (A4)			Loa	my Gleyed Matrix	(F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)				oleted Matrix (F3)	` '		Anomalous Bright Loamy Soils (F20)
	ic Bodies (A6) (LRR P	), T, U)			dox Dark Surface	(F6)		(MLRA 153B)
	, , ,					. ,		
	Mucky Mineral (A7) (LI		1		oleted Dark Surfac			Red Parent Material (TF2)
Muck	Presence (A8) (LRR I	U)		Rec	dox Depressions (	F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm	Muck (A9) (LRR P,T)			Mai	rl (F10) (LRR U)			Other (Explain in Remarks)
_								
_Deple	ted Below Dark Surfac	e (A11)		Dep	oleted Orchric (F1	1) (MLRA 151	•	
Thick	Dark Surface (A12)			Iron	n-Manganese Mas	ses (F12) (LR	R O, P,T)	31-diseases of history balance and constant
	Desirio Dadov (A46) (I	MI DA 45/	241	I Im	bric Surface (F13)	M PP P T II	1	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
coasi	Prairie Redox (A16) (I	WILKA 130	JA)				,	hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (L	LRR O, S)	)	Del	ta Orchric (F17) (I	MLRA 151)		problematic.
Sand	Gleyed Matrix (S4)			Red	duced Vertic (F18)	(MLRA 150A	. 150B)	
	Redox (S5)			_	dmont Floodplain	•		
	• •						) (MLRA 149A, 1530	4520)
Stripp	ed Matrix (S6)			And	maious Bright Lo	arriy Solis (F2t	) (MLKA 149A, 153C	s, 153D)
Dark :	Surface (S7) (LRR P, S	S, T, U)						
strictiv	e Layer (If observed):	:						
	Type:						1	
	Depth (inches):						Hydric Soil Preser	nt? Yes✓ No
marks:	Deptit (inches).		,,				Triyana com ricoci	K. 100
marks.								
							•	
			•					
								•
								•

Project/Site: Levy Baseload Transmission Progra	ım LCR	City/County: Citrus	S	Sampling Date:	11/5/09
Applicant/Owner: Progress Energy Florida, Inc.				• • —	
Investigator(s): Blake Meineke		Section, Township, Range			-
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, con		Slor	ne (%):
Subregion (LRR or MLRA): LRR U		•			um: <u>WGS84</u>
Soil Map Unit Name: Broward fine sand			NWI classification: F	reshwater emerg	ent wetland
Are climatic / hydrologic conditions on the site typ	vical for this time of year?	Yes <u>✓</u>	_ No (l	If no, explain in R	emarks)
Are Vegetation, Soil,	•		Are circumstances n		No
Are Vegetation, Soil,			(If needed, explain a	ny answers in Re	marks)
SUMMARY OF FINDINGS - Attach sit			ransects, import	ant features,	etc.
Hydrophytic Vegetation Present?	Yes/_No				
Hydric Soil Present?	Yes No	Is the Sampled Area v	vithin a Wetland?	resNo_	
Wetland Hydrology Present?	Yes ✓ No	]			
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two	required)
Primary Indicators (minimum of one is required; of	hack all that annly)		Surface Soil Cr	-	<u>5 required)</u>
Surface Water (A1)	Water-Stained Leaves (	(B9)	<del></del>	, ,	uface (B8)
High Water Table (A2)	Aquatic Fauna (B13)	(00)	Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	DD 111	Moss Trim Line	, ,	
` ′	Hydrogen Sulfide Odor	•		n Water Table (C2)	
Water Marks (B1)	Oxidized Rhizospheres	· / ·		• •	
Sediment Deposits (B2)			Crayfish Burrov		non (C0)
Drift Deposits (B3)	Presence of Reduced In	• •	<del></del>	ble on Aerial Ima	gery (Ca)
Algal Mat or Crust (B4)	Recent Iron Reduction i		Geomorphic Pe		
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)		FAC Neutral To	, ,	
Field Observations:	Other (Explain in Nema	11/2)	TAC Neutral 10	est (D3)	
Surface Water Present?	Yes No	Denth (inches):			
Water Table Present?	Yes No		-		
Saturation Present?	Yes No		Wetland		
	, so NO	Deptit (mones)	Hydrology Present?	/es <u>√</u> No	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:	Fresent	ies <u> </u>	
Remarks:					
1					

Profile Description: (Describe to Depth Matrix (inches) Color (moist) 0-5 10 YR 3/1 5-15 10 YR 5/1 15-35 10 YR 6/6 35+ 10 YR 8/1  Type: C=Concentration, D=Deplet Hydric Soil Indicators: Histol (A1) Histic Epidon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, 5 cm Mucky Mineral (A7) (LRR U) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (MI Sandy Mucky Mineral (S1) (LR	rix t) %	Color (moist) 10 YR 8/1	Redox F	eatures Type¹	Loc²	Texture mixed grains	Remarks  very dark gray fine sand gray fine sand brownish yellow fine sand hard white limestone with solution holes and fracture		
(inches) Color (moist) 0-5 10 YR 3/1 5-15 10 YR 5/1 15-35 10 YR 6/6 35+ 10 YR 8/1  Type: C=Concentration, D=Deplet Hydric Soil Indicators: Histol (A1) Histic Epidon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, 5 cm Mucky Mineral (A7) (LRR V Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (Mineral (A2) (Mineral (A2))	t) %	10 YR 8/1	%	Type¹			very dark gray fine sand gray fine sand brownish yellow fine sand		
0-5 10 YR 3/1 5-15 10 YR 5/1 15-35 10 YR 6/6 35+ 10 YR 8/1  Type: C=Concentration, D=Depleting the state of t		10 YR 8/1					very dark gray fine sand gray fine sand brownish yellow fine sand		
5-15 10 YR 5/1 15-35 10 YR 6/6 35+ 10 YR 8/1  Type: C=Concentration, D=Depleit Hydric Soil Indicators: Histot (A1) Histic Epidon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, 5 cm Mucky Mineral (A7) (LRF / Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (Mineral (A16) (Mineral (A17) (Mineral (A17))	=Depletion, RN	f=Reduced Matrix,	CS=Covere	d or Coated Sa			gray fine sand brownish yellow fine sand		
10 YR 8/1  Type: C=Concentration, D=Deplete Hydric Soil Indicators: Histol (A1) Histic Epidon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, 1) 5 cm Mucky Mineral (A7) (LRR U) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (MI	=Depletion, RN	f=Reduced Matrix,	CS=Covere	d or Coated Sa					
'Type: C=Concentration, D=Deplet Hydric Soil Indicators:	=Depletion, RN	=Reduced Matrix,	CS=Covere	d or Coated Sa			hard white limestone with solution holes and fracture		
'Type: C=Concentration, D=Deplet Hydric Soil Indicators:     Histol (A1)     Histic Epidon (A2)     Black Histic (A3)     Hydrogen Sulfide (A4)     Stratified Layers (A5)     Organic Bodies (A6) (LRR P,     5 cm Mucky Mineral (A7) (LRF     Muck Presence (A8) (LRR U)     1 cm Muck (A9) (LRR P,T)     Depleted Below Dark Surface     Thick Dark Surface (A12)     Coast Prairie Redox (A16) (MI	=Depletion, RN	=Reduced Matrix,	CS=Covere	d or Coated Sa			hard white limestone with solution holes and fracture		
Hydric Soil Indicators:  Histol (A1)  Histic Epidon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, 1)  5 cm Mucky Mineral (A7) (LRR U)  1 cm Muck (A9) (LRR P,T)  Depleted Below Dark Surface  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MI	=Depletion, RN	1=Reduced Matrix,	CS=Covere	d or Coated Sa					
Hydric Soil Indicators:  Histol (A1)  Histic Epidon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, 1)  5 cm Mucky Mineral (A7) (LRR U)  1 cm Muck (A9) (LRR P,T)  Depleted Below Dark Surface  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MI	=Depletion, RN	=Reduced Matrix,	CS=Covere	d or Coated Sa					
Hydric Soil Indicators:  Histol (A1)  Histic Epidon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, 1)  5 cm Mucky Mineral (A7) (LRR U)  1 cm Muck (A9) (LRR P,T)  Depleted Below Dark Surface  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MI	=Depletion, RM	1=Reduced Matrix,	CS=Covere	d or Coated Sa					
Hydric Soil Indicators:  Histol (A1)  Histic Epidon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, 1)  5 cm Mucky Mineral (A7) (LRR U)  1 cm Muck (A9) (LRR P,T)  Depleted Below Dark Surface  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MI	=Depletion, RN	1=Reduced Matrix,	CS=Covere	d or Coated Sa					
Histol (A1) Histic Epidon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, 5 cm Mucky Mineral (A7) (LRF / Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (MI					and Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.		
Histic Epidon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, 5 cm Mucky Mineral (A7) (LRR V) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (MI							Indicators for Problematic Hydric Soils 3:		
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, 5 cm Mucky Mineral (A7) (LRR U) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (MI			Potyvalue Below Surface (S8) (LRR S				1 cm Muck (a9) (LRR O)		
Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, 5 cm Mucky Mineral (A7) (LRR U) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (MI			Thin Dark Surface (S9) (LRR S, T, U)			•	2 cm Muck (A10) (LRR S)		
Stratified Layers (A5) Organic Bodies (A6) (LRR P, 5 cm Mucky Mineral (A7) (LRR U) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (MI					I (F1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A, B)		
Organic Bodies (A6) (LRR P, 5 cm Mucky Mineral (A7) (LRR U) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (MI				Loamy Gleyed Matrix (F2)			Piedmont Floodplain Soils (F19) (LRR P, S, T)		
5 cm Mucky Mineral (A7) (LRR U) Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P,T) Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (MI				Depleted Matrix (F3) Redox Dark Surface (F6)			Anomalous Bright Loamy Soils (F20)		
Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P,T)  Depleted Below Dark Surface Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MI				Depleted Dark Surface (F7)			(MLRA 153B) Red Parent Material (TF2)		
1 cm Muck (A9) (LRR P,T)Depleted Below Dark SurfaceThick Dark Surface (A12)Coast Prairie Redox (A16) (MI					` '		Very Shallow Dark Surface (TF12) (LRR T, U)		
Depleted Below Dark Surface Thick Dark Surface (A12) Coast Prairie Redox (A16) (MI				Redox Depressions (F8)					
Thick Dark Surface (A12)Coast Prairie Redox (A16) (MI	1 cm Muck (A9) (LRR P,T)			Mart (F10) (LRR U)			Other (Explain in Remarks)		
Coast Prairie Redox (A16) (MI	Surface (A11)		Depleted Orchric (F11) (MLRA 151)						
. , ,	Thick Dark Surface (A12)			langanese Mas	ses (F12) (LR	R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland		
. , ,	Coast Prairie Redox (A16) (MLRA 150A)			Umbric Surface (F13) (LRR P, T, U)			hydrology must be present, unless disturbed or problematic.		
Sandy Mucky Mineral (S1) (LR	· /·			Delta Orchric (F17) (MLRA 151)					
			Reduced Vertic (F18) (MLRA 150A, 150B)				F		
Sandy Gleyed Matrix (S4)				ont Floodplain					
Sandy Redox (S5)					- · · · ·	) (MLRA 149A, 153	(C 153D)		
Stripped Matrix (S6)			AIOIII	alous Bright Loc	arry Suits (F20	) (INLICA 145A, 150	C, 155D)		
Dark Surface (S7) (LRR P, S,									
Restrictive Layer (If observed):	rved):					1			
Type:						l			
Depth (inches):				Hydric Soil Preser			ent? Yes <u> </u>		

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		Sampling Date: 11/5/09		
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Point: 24		
Investigator(s): Blake Meineke/ Amy Piko		Section, Township, Range: <u>36 17S 16E</u>				
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U		32 Long: <u>-82.65</u>	0278	Datum: WGS84		
Soil Map Unit Name: Boca fine sand				Freshwater emergent wetland		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u></u> ✓	. No	(If no, explain in Remarks)		
Are Vegetation, Soil,	or Hydrology	significantly disturbed? Are circumstances normal? Yes/_No				
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain a	any answers in Remarks)		
<b>SUMMARY OF FINDINGS - Attach sit</b>	e map showing sampli	ing point locations, t	ransects, impor	tant features, etc.		
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	Is the Sampled Area within a Wetland? YesNo					
Wetland Hydrology Present?	YesNo					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicator	rs (minimum of two required)		
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil C			
Surface Water (A1)	Water-Stained Leaves	(B9)		etated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)	(00)	Drainage Patt	• •		
✓ Saturation (A3)	Marl Deposits (B15) (LF	DD III	Moss Trim Lines (B16)			
· '		,		Vater Table (C2)		
Water Marks (B1)	Hydrogen Sulfide OdorOxidized Rhizospheres		Crayfish Burro	• •		
Sediment Deposits (B2)	Oxidized Rflizospheres		-	sible on Aerial Imagery (C9)		
Drift Deposits (B3)	Recent Iron Reduction i	•	Geomorphic F	• • • •		
Algal Mat or Crust (B4)	Recent from Reduction   Thin Muck Surface (C7)	Shallow A		• •		
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	•	FAC Neutral Test (D5)			
Field Observations:	Other (Explain in Rema	1185)	FAC Neutral I	rest (D3)		
	Yes No	Donth (inchas):				
Surface Water Present?	Yes No/					
Water Table Present?			Wetland			
Saturation Present?	Yes✓ No	_ Depth (inches)	Hydrology	Van ( Na		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ing well aerial photos, previous	s inspections) if available:	Present?	Yes <u>✓ No</u>		
Describe Necorded Bata (stream gauge, monitor	ing well, derial priotos, previous	s mapochona), ii dvandalo.				
Domosto						
Remarks:						

County/soil: Citrus- Boca	
SOIL	

	Matrix Color (moist)	%	Color (moist)	%	Features Type <sup>1</sup>	Loc²	Texture	Remarks		
nches) -7	10 YR 4/2	· <del></del>	10 YR 3/1		туре		few fine roots	dark grayish brown fine sand		
<u>,                                      </u>	10 117 4/2		10 11 3/1					dark grayish brown line sand		
			40.725.010.40				few medium			
			10 YR 6/6; 10				distinct mottles			
-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand		
							common medium			
3-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand		
<del>9-</del> 80	10 YR 7/3				<del> </del>			very pale brown fine sand		
								·		
				<del></del>						
	0		Dod ood Markey	·	-1010		2)ti Dt -D	- Children Manager		
	Concentration, D=Dep	letion, Riv	=Reduced Matrix, (	S=Cover	ed of Coated S	and Grains.	-Location: PL=Por	e Lining, M=Matrix.		
-	il Indicators:							Indicators for Problematic Hydric Soils 3:		
Histol						face (S8) (LRR		1 cm Muck (a9) (LRR O)		
Histic	Epidon (A2)			Thin	Dark Surface (S	89) (LRR \$, T, I	U)	2 cm Muck (A10) (LRR S)		
Black	Histic (A3)			Loan	y Mucky Miner	al (F1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A, B)		
Hydro	gen Sulfide (A4)			Loan	y Gleyed Matri:	x (F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)		
	ied Layers (A5)			Deple	ted Matrix (F3)			Anomalous Bright Loamy Soils (F20)		
	ic Bodies (A6) (LRR F	P, T, U)			x Dark Surface			(MLRA 153B)		
	Mucky Mineral (A7) (L				eted Dark Surfa			Red Parent Material (TF2)		
_	, , , , ,		,					• •		
✓_Muck	Presence (A8) (LRR	U)			x Depressions	(FØ)		Very Shallow Dark Surface (TF12) (LRR T, U)		
_	Muck (A9) (LRR P,T)				(F10) (LRR U)			Other (Explain in Remarks)		
Deple	ted Below Dark Surfac	æ (A11)		Deple	eted Orchric (F	[1) (MLRA 151)				
Thick	Dark Surface (A12)			Iron-l	Manganese Ma	sses (F12) (LR	R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland		
Coast	Prairie Redox (A16) (	MI DA 15	00)	Umb						
	,		-				,	hydrology must be present, unless disturbed or problematic.		
Sandy	Mucky Mineral (S1) (	LRR O, S	}	Delta	Orchric (F17)	MLRA 151)		problematic.		
Sandy	Gleyed Matrix (S4)			Redu	ced Vertic (F18	) (MLRA 150A,	, 150B)	•		
Sand\	Redox (S5)			Piedr	nont Floodplain	Soils (F19) (MI	LRA 149A)			
_ ^	ed Matrix (S6)				•		) (MLRA 149A, 1530	C. 153D)		
	• •				iniono bilgin ci	, a, come (. 20	, ,, ,	.,,		
	Surface (S7) (LRR P,						· · · · · · · · · · · · · · · · · · ·			
Restrictiv	e Layer (If observed)	):					i			
	Type:		<del> </del>							
	Depth (inches):						Hydric Soil Presei	nt? Yes <u>√</u> No		
emarks:	<del></del>						1			
								•		

Sampling Point: \_\_\_\_

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Project/Site: Low Resoland Transmission Progra	om LCB	City/County: Cityyo		Complian Date:	10/15/00
Project/Site: Levy Baseload Transmission Progra					
Applicant/Owner: Progress Energy Florida, Inc.	0.0000	State:FL		Sampling Point:	Х
Investigator(s): Mike Arrants, Colleen Cunn					
Landform (hillslope, terrace, etc.): N/F		Local relief (concave, conv			. ,
Subregion (LRR or MLRA): LRR U	Lat:28,9614	74 Long: -82	.626914	Datu	um: <u>WGS84</u>
Soil Map Unit Name: Broward fine sand			_NWI classification:		
Are climatic / hydrologic conditions on the site type	•		_ No	(If no, explain in R	emarks)
	or Hydrology		Are circumstances	normal? Yes	No
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain	any answers in Re	marks)
<b>SUMMARY OF FINDINGS - Attach si</b>	te map showing samp	ling point locations,	transects, impo	rtant features	, etc.
Hydrophytic Vegetation Present?	Yes No				
Hydric Soil Present?	YesNo	Is the Sampled Area w	ithin a Wetland?	YesNo_	
Wetland Hydrology Present?	YesNo				
Remarks: Depressional wetland within transmiss	•				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicate		required)
Primary Indicators (minimum of one is required; of			Surface Soil	` '	
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Vegetated Concave S		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pat	terns (B10)	
Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim Li	nes (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season \	Vater Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Burn	ows (C8)	
Drift Deposits (B3)	Presence of Reduced II	ron (C4)	Saturation Vi	sible on Aerial Imag	gery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction i	n Tilled Soils (C6)	Geomorphic	Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	)	Shallow Aqui	tard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutral	Test (D5)	
Field Observations:					
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?	Yes No	Depth (inches): > 10			
Saturation Present?	Yes <u>✓</u> No		Wetland		
(includes capillary fringe)			Hydrology Present?	Yes ✓ No	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previou	is inspections), if available:	T. rossint.	in the second se	
Remarks:			• •		
•					
			•		

VEGETATION - Use scientific na	mes of plants				Sampling Poir	nt: <u>X</u>	
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:			
1.				Number of Dominant Species	,	(4)	
2.				That Are OBL, FACW, or FAC:	4	(A)	
3.				Total Number of Dominant	, ,	(D)	
4.				Species Across All Strata:	4	(B)	
5.				Percent of Dominant Species	400.00		
6.				That Are OBL, FACW, or FAC:	100.00	(A/B)	
7.				Prevalance Index worksheet:			
		= Total Cove	r	Total % Cover of:	Multiply by:		
Sapling Stratum (Plot size:		70101 0070		OBL species	x1=		
1.				FACW species	x2=		
2.				FAC species	x3=		
3.				FACU species	x4=		
4.				UPL species	x5=		
5.				Column Totals:	(A)	(B)	
6.					. (~)	- (D)	
7.				Prevalance Index = B/A =			
1		= Total Cove		Hydrophytic Vegetation Indic	ators:		
Shrub Stratum (Plot size:		- Total Cove		✓ Dominance Test is 50%	ators.		
			ODI		v1		
Cephalanthus occidentalis	1	yes	OBL	Prevalence Index is ≤3.0		1.5.	
2.				Problematic Hydrophytic	vegetation (Exp	olain)	
3.				<u> </u>			
4.				Indicators of hydric soil and we		nust	
5.				be present, unless disturbed or			
6.				Definitions of Vegetation Stra	ita:		
7.							
	1	= Total Cove	r	Tree- Woody plants, excluding w			
Herb Stratum (Plot size:)				approximately 20 ft (6m) or more		(7.6	
Andropogon glomeratus	60	yes	FACW	cm) or larger in diameter at breas	it neight (DBH).		
Erianthus giganteus	20	yes	FACW	Sapling- Woody plants, excluding			
Solidago canadensis	5	no	FACU	approximately 20 ft (6m) or more	in height and less	than 3	
Phyla nodiflora	5	no	FACW	in. (7.6 cm) DBH.			
5.				Shrub- Woody plants, excluding			
6.				approximately 3 to 20 ft (1 to 6 m	) in height.		
7.				Herb- All herbaceous (non-wood)			
8.				herbaceous vines, regardless of			
9.				plants, except woody vines, less	than approximately	y 3 ft (1	
10.				m) in height.			
11.				Woody vine- All woody vines, re	gardless of height.		
12.							
	90	= Total Cove	r				
Woody Vine Stratum (Plot size:_	)						
Ampelopsis arborea	1	yes	FAC				
2.				ī s			
3.							
4.				Hydrophytic			
5.					No		
	1	= Total Cove	r	- vegetation Flesent: 1es			
Remarks: (If observed, list morpl				1			
Percent cover estimates based of			roader co	mmunity.			

County/soil: Citrus- Broward Sampling Point: SOIL Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features Loc (inches) Color (moist) Color (moist) % Type Remarks very dark gray fine sand 0-5 10 YR 3/1 gray fine sand 10 YR 5/1 5-15 brownish yellow fine sand 15-35 10 YR 6/6 35+ 10 YR 8/1 hard white limestone Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils 3: Hydric Soil Indicators: \_1 cm Muck (a9) (LRR O) Histol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Histic Epidon (A2) Reduced Vertic (F18) (outside MLRA 150A, B) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) \_Anomalous Bright Loamy Soils (F20) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) (MLRA 153B) Depleted Dark Surface (F7) Red Parent Material (TF2) \_5 cm Mucky Mineral (A7) (LRR P,T,U) ✓ Muck Presence (A8) (LRR U) Redox Depressions (F8) \_Very Shallow Dark Surface (TF12) (LRR T, U) Marl (F10) (LRR U) Other (Explain in Remarks) \_1 cm Muck (A9) (LRR P,T) Depleted Orchric (F11) (MLRA 151) \_Depleted Below Dark Surface (A11) \_Iron-Manganese Masses (F12) (LRR O, P,T) \_Thick Dark Surface (A12) <sup>3</sup>Indicators of hydrophytic vegetation and wetland \_Umbric Surface (F13) (LRR P, T, U) Coast Prairie Redox (A16) (MLRA 150A) hydrology must be present, unless disturbed or problematic. Delta Orchric (F17) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Reduced Vertic (F18) (MLRA 150A, 150B) Piedmont Floodplain Soils (F19) (MLRA 149A) Sandy Redox (S5) \_Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes X No Remarks:

Project/Site: Levy Baseload Transmission Progr	am, LCR	_ City/County:Citrus		_Sampling Date:_	10/15/09
Applicant/Owner: Progress Energy Florida, Inc.		State:FL		Sampling Point:	Y
Investigator(s): Mike Arrants, Colleen Cun	ningham	Section, Township, Range	e:31 17S 17E		
Landform (hillslope, terrace, etc.):N/					ope (%):
Subregion (LRR or MLRA): LRR U	Lat:28.9619			Da	
Soil Map Unit Name: Boca fine sand			_ NWI classification		
Are climatic / hydrologic conditions on the site ty	pical for this time of year?		_ _ No		Remarks)
	or Hydrology				sNo
Are Vegetation, Soil			(If needed, explain		
SUMMARY OF FINDINGS - Attach s			•	•	•
Hydrophytic Vegetation Present?	YesNo	J			2, 2021
Hydric Soil Present?	Yes No_✓	Is the Sampled Area v	vithin a Wetland?	Yes✓No	·
Wetland Hydrology Present?	Yes No ✓				
Remarks:		<u></u>			
·					
			***		
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of tv	vo required)
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves	(B9)Sparsely Vegetated Concave Surface (B8			Surface (B8)
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)	
✓ Saturation (A3)	Marl Deposits (B15) (LI	RR U)	Moss Trim L	ines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	1)Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Roots (C3)Crayfish Burrows (C8)		
Drift Deposits (B3)	Presence of Reduced I				agery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction			Position (D2)	3-7(/
Iron Deposits (B5)	Thin Muck Surface (C7				
Inundation Visible on Aerial Imagery (B7)	•				
Field Observations:			1		
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?	Yes_ ✓ No			•	
	YesNo		Wetland		
Saturation Present?	162	Depth (inches): < 2	Hydrology	W / N-	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monito	vring well serial photos previou	us inspections) if available:	Present?	Yes <u>√</u> No	<u> </u>
Describe Necosada Data (stream gauge, monte	aring well, actial priotos, previou	us mspections), il available.			
	Th				
Remarks:					

VEGETATION - Use scientific na	mes of plants				Sampling Poin	it: <u>Y</u>	
	Absolute %	Dominant	Indicator	Dominance Test Worksheet:			
Tree Stratum (Plot size:)	Cover	Species?	Status				
Quercus laurifolia	1	yes	<b>FACW</b>	Number of Dominant Species	c	/A)	
2.	-			That Are OBL, FACW, or FAC:	<u>5</u>	(A)	
3.	-			Total Number of Dominant	_		
4.				Species Across All Strata:	<u>5</u>	(B)	
5.				Percent of Dominant Species			
6.			-	That Are OBL, FACW, or FAC:	<u>100.00</u>	(A/B)	
7.	- —			Prevalance Index worksheet:			
		= Total Cove		Total % Cover of:	Multiply by:		
Sapling Stratum (Plot size:	•	10101 0010	<b>.</b> '	OBL species	x1=		
1. Salix spp.		yes	FACW	· · —	x2=	_	
2.					x3=	-	
3.				FACU species	x4=	_	
4.	- ——			UPL species	x5=	-	
5.				Column Totals:	(A)	- (В)	
6.				Column Totals.	.(^)	- (D)	
7.				Prevalance Index = B/A =			
	15	= Total Cove		Hydrophytic Vegetation Indica	atore:		
Shrub Stratum (Plot size:	١٥	- Total Cove	<b>3</b> 1	✓ Dominance Test is 50%	11015.		
	_/		EAC		.1		
Myrica cerifera     2.	1	yes	FAC	Prevalence Index is ≤3.0			
				Problematic Hydrophytic	vegetation (Exp	Hain)	
3.				1			
4.				Indicators of hydric soil and we	, ,,	nust	
5.	- ——			be present, unless disturbed or			
6.	- ——			Definitions of Vegetation Stra	ta:		
7.				4			
Hards Overs on (District	1	= Total Cove	er	Tree- Woody plants, excluding wo			
Herb Stratum (Plot size:)				approximately 20 ft (6m) or more		(7.6	
Andropogon glomeratus		yes	FACW	cm) or larger in diameter at breas	- , ,		
Eupatorium capillifolium	- 5	no	FACU	Sapling- Woody plants, excluding			
Sagittaria lancifolia	5	no	OBL	approximately 20 ft (6m) or more	in height and less	than 3	
4. Hyptis alata	1	no	OBL	in. (7.6 cm) DBH.			
Andropogon virginicus	1	no	FAC	Shrub- Woody plants, excluding v			
Erianthus giganteus	1	no	FACW	approximately 3 to 20 ft (1 to 6 m)	in height.		
7. Phyla nodiflora	1	no	FACW	Herb- All herbaceous (non-woody	)plants, including		
8. Dichromena spp.	1	no	FACW	herbaceous vines, regardless of s		•	
9. Pluchea spp.	1	no	FACW	plants, except woody vines, less the	han approximately	/ 3 ft (1	
10. Centella asiatica	1	no	FACW	m) in height.			
11. Urochloa plantaginea	1	no	NL	Woody vine- All woody vines, reg	jardless of height.		
12. Coreopsis spp.	1	no	FACW	1			
	69	= Total Cove	er				
Woody Vine Stratum (Plot size:	)						
Mikania scandens	5	yes	FACW				
2. Ampelopsis arborea	1	no	FAC				
3.							
4.	-			Hydrophytic			
5.				1	No		
	6	= Total Cove	er	Aederation Lieseurt 1es 140			
Remarks: (If observed, list morph	ological adapta						
Percent cover estimates based or		•	roader cor	mmunity.			
			,				

County/soil:	Citrus-	Boca
SOIL		

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)   Depth Matrix Redox Features (inches)
(inches) Color (moist) % Color (moist) % Type¹ Loc² Texture Remarks  0-7 10 YR 4/2 10 YR 3/1 few fine roots dark grayish brown fine sand  10 YR 6/6; 10 few medium distinct mottles and streaks light yellowish brown fine sand  20-39 10 YR 7/4 10 YR 6/6  39-80 10 YR 7/3 formon medium distinct mottles very pale brown fine sand  7-20 10 YR 7/3 very pale brown fine sand  10 YR 6/6 distinct mottles very pale brown fine sand  10 YR 7/3 very pale brown fine sa
0-7 10 YR 4/2 10 YR 3/1 few fine roots dark grayish brown fine sand  10 YR 6/6; 10  10 YR 6/4 YR 7/2 and streaks light yellowish brown fine sand  20-39 10 YR 7/4 10 YR 6/6  39-80 10 YR 7/3 very pale brown fine 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 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=Deple
few medium distinct mottles and streaks light yellowish brown fine sand  20-39 10 YR 7/4 10 YR 6/6  39-80 10 YR 7/3
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.  Hydric Soil Indicators:  Histol (A1)  Histic Epidon (A2)  Black Histic (A3)  Hydrogen Suffide (A4)  Loamy Gleyed Matrix (F2)  Depleted Matrix (F3)  Depleted Matrix (F3)  Idistinct mottles and streaks light yellowish brown fine sand very pale brown fine sand very pale brown fine sand  **Location: PL=Pore Lining, M=Matrix.*  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Loamy Mucky Mineral (F1) (LRR S, T, U)  Reduced Vertic (F18) (outside MLRA 150A, B)  Peldmont Floodplain Soils (F19) (LRR P, S, T)  Anomalous Bright Loamy Soils (F20)  Anomalous Bright Loamy Soils (F20)
7-20 10 YR 6/4 YR 7/2 and streaks common medium distinct mottles very pale brown fine sand  20-39 10 YR 7/4 10 YR 6/6 distinct mottles very pale brown fine 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.  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic
20-39 10 YR 7/4 10 YR 6/6  39-80 10 YR 7/3
20-39 10 YR 7/4 10 YR 6/6 distinct mottles very pale brown fine sand v
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Hydric Soil Indicators:  Histol (A1)  Histol Epidon (A2)  Black Histic (A3)  Hydrogen Suffide (A4)  Stratified Layers (A5)  Depleted Matrix (F3)  Very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand  very pale brown fine sand
Hydric Soil Indicators:    Histol (A1)
Histol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (a9) (LRR O)  Histic Epidon (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 Sutfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T)  Stratified Layers (A5) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20)
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)
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)
Stratified Layers (A5)
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) (LRR T, U)
1 cm Muck (A9) (LRR P,T)Marl (F10) (LRR U)Other (Explain in Remarks)
Depleted Below Dark Surface (A11)Depleted Orchric (F11) (MLRA 151)
Thick Dark Surface (A12) Iron Manageres Massas (E12) / I PR O. P. T.)
Sandy Mucky Mineral (S1) (LRR O, S)Delta Orchric (F17) (MLRA 151) problematic.
Sandy Gleyed Matrix (S4)Reduced Vertic (F18) (MLRA 150A, 150B)
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A)
Stripped Matrix (S6)Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Dark Surface (S7) (LRR P, S, T, U)
Restrictive Layer (If observed):
Type:     Depth (inches):   Hydric Soil Present? Yes X No .
Remarks:
·
·

,

Project/Site: Levy Baseload Transmission Progra	am, LCR	City/County: Citrus		Sampling Date:	10/26/09	
Applicant/Owner: Progress Energy Florida, Inc.						
Investigator(s): Mike Arrants, Stacy Rizzo		Section, Township, Range	e: <u>31 17S 17E</u>			
Landform (hillslope, terrace, etc.): N//	Α	Local relief (concave, con	vex, none): none	Slo	pe (%):	
Subregion (LRR or MLRA): LRR U	Lat: 28.9600	63 Long: -82.6	32261	Dat	um: WGS84	
Soil Map Unit Name: Boca and Redlevel fine s			_NWI classification:			
Are climatic / hydrologic conditions on the site ty	pical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in F	Remarks)	
Are Vegetation, Soil,	or Hydrology		Are circumstances		No	
	or Hydrology		(If needed, explain	any answers in Re	emarks)	
SUMMARY OF FINDINGS - Attach si			ransects, impo	rtant features	, etc.	
Hydrophytic Vegetation Present?	Yes ✓ No					
Hydric Soil Present?	Yes No	Is the Sampled Area v	vithin a Wetland?	Yes <u>✓</u> No		
Wetland Hydrology Present?	Yes No					
Remarks:		<del></del>				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicato		o required)	
Primary Indicators (minimum of one is required;			Surface Soil (			
Surface Water (A1)	Water-Stained Leaves	(B9)		sely Vegetated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B15) (LI	RR U)	Moss Trim Li	nes (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor	• •	<del></del> ·			
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Burr			
Drift Deposits (B3)	Presence of Reduced I			sible on Aerial Ima	gery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction	n Tilled Soils (C6)Geomorpl		Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7	· · · · · · · · · · · · · · · · · · ·				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	FAC Neutral	Test (D5)		
Field Observations:			1			
Surface Water Present?	Yes No✓		-			
Water Table Present?	Yes No	Depth (inches):	_     Wetland			
Saturation Present?	Yes No	Depth (inches):6	Hydrology			
(includes capillary fringe)			Present?	Yes <u>✓</u> No		
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previou	s inspections), if available:				
Remarks:						
1						

County/soil: Citrus- Boca

SOIL								Sampling Point:
	, ,	to the de	pth needed to doc			r confirm the ab	sence of indicators.)	)
Depth	Matrix			Redox	r Features			
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc²	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1			- —	few fine roots	dark grayish brown fine sand
	_						few medium	
			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
7-20	10 11( 0/4		111/1/2					ight yellowish brown fine sand
00.00	40 VD 7/4		40 VO C/C				common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3		<del> </del>					very pale brown fine sand
<u></u>								
					•			
						-		
Type: C=0	Concentration, D=Dep	letion, RM	/=Reduced Matrix, (	CS=Cove	red or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore	e Lining, M=Matrix.
	il Indicators:							Indicators for Problematic Hydric Soils 3:
Histol				Poly	value Below S	urface (S8) (LRR		1 cm Muck (a9) (LRR O)
	Epidon (A2)		•			(S9) (LRR S, T,		2 cm Muck (A10) (LRR S)
	Histic (A3)					eral (F1) (LRR O)	) .	Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				my Gleyed Mat		•	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)				leted Matrix (F3			Anomalous Bright Loamy Soils (F20)
Organ	nic Bodies (A6) (LRR F	P, T, U)		Red	ox Dark Surfac	зе (F6)		(MLRA 153B)
5 cm	Mucky Mineral (A7) (L	RR P.T.U	n	Dep'	leted Dark Surf	face (F7)		Red Parent Material (TF2)
	•		,			• •	•	
Muck	Presence (A8) (LRR	U)		_	ox Depressions		-	Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm	Muck (A9) (LRR P,T)			Marl	I (F10) (LRR U	<i>i</i> )		Other (Explain in Remarks)
i —	ted Below Dark Surfac	(844)				F11) (MLRA 151	<b>A</b>	
		Se (A 11)					•	
Thick	Dark Surface (A12)			Iron-	Manganese M	lasses (F12) (LR	.R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
l Coast	Prairie Redox (A16) (	MLRA 15	30A1	Umbric Surface (F13) (LRR P, T, U) Delta Orchric (F17) (MLRA 151)				hydrology must be present, unless disturbed or
I								problematic.
	Mucky Mineral (S1) (	LRR O, S	<i>i</i> )				problematic.	
Sandy	Gleyed Matrix (S4)			Red	uced Vertic (F1	18) (MLRA 150A	, 150B)	
Sandy	Redox (S5)			Pied	mont Floodpla	ain Soils (F19) (M	LRA 149A)	
	ed Matrix (S6)						0) (MLRA 149A, 153C,	. 153D)
1	, ,	~ * 111	•				, , , , , , , , , , , , , , , , , , , ,	,,
	Surface (S7) (LRR P,							
Restrictiv	e Layer (If observed)	<b>)</b> :						
	Type:						ļ	
1	Depth (inches):						Hydric Soil Presen	t? Yes _ ✓ No
Remarks:							1	
Tromain.								
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Project/Site: Levy Baseload Transmission Progra	ım, LCR	City/County: Citrus		_Sampling Date:	10/26/09	
Applicant/Owner: Progress Energy Florida, Inc.		State: FL		Sampling Point:_	AA	
Investigator(s): Mike Arrants, Stacy Rizzo						
Landform (hillslope, terrace, etc.):N/A	·	Local relief (concave, conv	ex, none): none	Slo	pe (%):	
Subregion (LRR or MLRA): LRR U	Lat: 28,95941	14 Long: -82.6	37358	Dat	tum: WGS84	
Soil Map Unit Name: Boca fine sand			NWI classification:			
Are climatic / hydrologic conditions on the site typ	pical for this time of year?	Yes <u></u> ✓	_ No	(If no, explain in F	Remarks)	
Are Vegetation, Soil,	or Hydrology		Are circumstances		s∕No	
	or Hydrology		(If needed, explain	any answers in Re	emarks)	
<b>SUMMARY OF FINDINGS - Attach sit</b>			ransects, impo	rtant features	, etc.	
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	Yes/ No	Is the Sampled Area w	rithin a Wetland?	Yes/_No		
Wetland Hydrology Present?	Yes/No	]				
Remarks:		•				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of tw	o required)	
Primary Indicators (minimum of one is required; of	theck all that apply)		Surface Soil		o roquirou <sub>j</sub>	
Surface Water (A1)	Water-Stained Leaves (	<del></del>			urface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)			unace (Bo)	
✓ Saturation (A3)	Marl Deposits (B15) (LR					
Water Marks (B1)	Hydrogen Sulfide Odor					
Sediment Deposits (B2)	<del></del>	on Living Roots (C3)Crayfish Burrows (C8)				
Drift Deposits (B3)	Presence of Reduced In	-				
Algal Mat or Crust (B4)	Recent Iron Reduction is				igery (C3)	
Iron Deposits (B5)	Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remai					
Field Observations:	Other (Explain in Nema)	ikoj	I AC NEBIJAI	Test (D3)		
Surface Water Present?	Yes No	Denth (inches):				
Water Table Present?	Yes No		1			
Saturation Present?	Yes No		Wetland			
	100	_ Deput (inches)0-12	Hydrology Present?	Vac ( Na		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previous	inspections) if available	Present?	Yes <u>✓ No</u>		
	g, a p, p	mapa and may, in a valuable.				
Pomodro						
Remarks:						
·					•	

SOIL	oil: Citrus- Boca			-				Sampling Point:
	escription: (Describe	to the de	pth needed to doc			confirm the a	bsence of indicators.	)
Depth	Matrix				Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc2	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
			10 YR 6/6; 10				few medium distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
		. —					common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
							· ———	
<sup>1</sup> Type: C	Concentration, D=Dep	letion, RN	/=Reduced Matrix, (	CS=Cover	ed or Coated S	and Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.
	oil Indicators:							Indicators for Problematic Hydric Soils 3:
Histol (A1)			Polyvalue Below Surface (S8) (LRR S, T, U)				1 cm Muck (a9) (LRR O)	
	c Epidon (A2)			Thin Dark Surface (S9) (LRR S, T, U)			•	2 cm Muck (A10) (LRR S)
	( Histic (A3)			Loamy Mucky Mineral (F1) (LRR O)			))	Reduced Vertic (F18) (outside MLRA 150A, B)
	ogen Sulfide (A4)			Loamy Gleyed Matrix (F2)				Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ified Layers (A5)			Depleted Matrix (F3)				Anomalous Bright Loamy Soils (F20)
Orga	nic Bodies (A6) (LRR F	٠, ١, ١)		Redox Dark Surface (F6)				(MLRA 153B)
5 cm	Mucky Mineral (A7) (L	RR P,T,L	J)	Depleted Dark Surface (F7)				Red Parent Material (TF2)
Muc	k Presence (A8) (LRR	U)		Redox Depressions (F8)				Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm	Muck (A9) (LRR P,T)			Mart (F10) (LRR U)				Other (Explain in Remarks)
Depl	eted Below Dark Surfac	ce (A11)		Deple	eted Orchric (F	11) (MLRA 151	1)	
Thic	Dark Surface (A12)			Iron-I	Manganese Ma	sses (F12) (LF	RR O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coa	st Prairie Redox (A16) (	MLRA 1	50A)	Umbi	ic Surface (F13	3) (LRR P, T, l		hydrology must be present, unless disturbed or
Sand	ty Mucky Mineral (S1) (	LRR O, S	S)	Delta Orchric (F17) (MLRA 151)				problematic.
Sand	ly Gleyed Matrix (S4)			Reduced Vertic (F18) (MLRA 150A, 150B)				
Sand	ly Redox (S5)			Piedmont Floodplain Soils (F19) (MLRA 149A)				
Stripped Matrix (S6)			Anon	nalous Bright Lo	oamy Soils (F2	(MLRA 149A, 153C	C, 153D)	

Hydric Soil Present?

Yes <u>✓</u> No

\_\_\_\_Dark Surface (S7) (LRR P, S, T, U)

Restrictive Layer (If observed):

Type:

Depth (inches):

Remarks:

Project/Site: Levy Baseload Transmission Progra	ım, LCR	City/County: Citrus		Sampling Date:	10/26-28/09	
Applicant/Owner: <u>Progress Energy Florida, Inc.</u>		State:FL	·	Sampling Point:_	AB	
Investigator(s): Mike Arrants, Stacy Rizzo,	fony Davanzo	_ Section, Township, Range	: 36 17S 16E			
Landform (hillslope, terrace, etc.): N/A	·	Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U	Lat: <u>28.9593</u>	58 Long: -82.6	47488	Dat	um: <u>WGS84</u>	
Soil Map Unit Name: Boca and Redlevel fine sa	ands		_NWI classification: !	NA		
Are climatic / hydrologic conditions on the site typ	pical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in F	Remarks)	
Are Vegetation, Soil,	or Hydrology		Are circumstances		No	
	or Hydrology		(If needed, explain a	any answers in Re	marks)	
SUMMARY OF FINDINGS - Attach si			ransects, impor	tant features	etc.	
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	Yes No	Is the Sampled Area v	vithin a Wetland?	YesNo		
Wetland Hydrology Present?	Yes/No					
Remarks:					***	
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicator	rs (minimum of tw	o required)	
Primary Indicators (minimum of one is required;	check all that apply)				o required/	
Surface Water (A1)	Water-Stained Leaves	Surface Soil Cracks (B6)  B9) Sparsely Vegetated Concave Surface (				
High Water Table (A2)	Aquatic Fauna (B13)	(55)	Drainage Patt		anace (Bo)	
✓ Saturation (A3)		DD III	Moss Trim Lin	` ,		
<del></del>	Marl Deposits (B15) (LI	•	·	Vater Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor	•				
Sediment Deposits (B2)	Oxidized Rhizospheres	<del>-</del> • • • • • • • • • • • • • • • • • • •				
Drift Deposits (B3)	Presence of Reduced I				gery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction					
Iron Deposits (B5)	Thin Muck Surface (C7					
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	T PAC Neutral 1	est (D5)		
Field Observations:	v No /	5 " 6 1 )				
Surface Water Present?	Yes No		-			
Water Table Present?	Yes No/		Wetland			
Saturation Present?	Yes No	Depth (inches):0-12	Hydrology			
(includes capillary fringe)	dan	a incompliance) if a callable.	Present?	Yes <u>✓ No</u>		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previou	is inspections), if available:				
Remarks:						
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VEGETATION - Use scientific na	mes of plants				Sampling Point:	AB
				Dominance Test Worksho	eet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	_ Cover	Species?	Status	No. 10 10 10 10 10 10 10 10 10 10 10 10 10		
1.	· ———			Number of Dominant Speci		(A)
2. 3.	-		-	That Are OBL, FACW, or F Total Number of Dominant	AC:	
<u>4.</u>				Species Across All Strata:	<u>8</u>	(B)
5.	- ———			Percent of Dominant Speci	es	
6.	- ——			That Are OBL, FACW, or F	10010	(A/B)
7.				Prevalance Index worksh		
		= Total Cove		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:		- 10121 0010	••	OBL species	x1=	
			0.01	_ · _		_
Salix caroliniana	1	yes	OBL	FACW species	x2=	_
2.	- <del></del>			FAC species	x3=	_
3.				FACU species	x4=	
4.				UPL species	x5=	_
5.				Column Totals:	(A)	(B)
6.						
7.				Prevalance Index = B/	'A =	
		= Total Cove	er	Hydrophytic Vegetation I	ndicators:	
Shrub Stratum (Plot size:	1		-	✓ Dominance Test is		
<u></u>	<del>-</del> /			Prevalence Index is		
1.		<del></del>		<del></del>		
2.				Problematic Hydrop	hytic Vegetation <sup>1</sup> (Ex	plain)
<u>3.</u> <u>4.</u>	<del></del>			<sup>1</sup> Indicators of hydric soil an	d wotland bydrology i	nuct
5.				be present, unless disturbe		nust
6.				Definitions of Vegetation	· ·	
7.	- ——			Deminitions of Vegetation	Strata.	
		= Total Cove		Tree- Woody plants, excludi	na woody vinos	
Herb Stratum (Plot size:)	Ů	- 10tal 00V	.,	approximately 20 ft (6m) or r		. (7.6
Rhyncospora spp.	60	yes	FACW	cm) or larger in diameter at t		. (, , , ,
Fuirena pumila	40	yes	OBL	Sapling- Woody plants, excl	luding woody vines	
Bacopa spp.	25	yes	OBL	approximately 20 ft (6m) or r	- ·	than 3
Bidens spp.	25	yes	FACW	in. (7.6 cm) DBH.		
Rhynchospora colorata	20	yes	OBL	Shrub- Woody plants, exclu	ding woody vines,	
Phyla nodiflora	10	no	FACW	approximately 3 to 20 ft (1 to	6 m) in height.	
<ol><li>Andropogon glomeratus</li></ol>	10	no	FACW	Herb- All herbaceous (non-v		
Leptochloa spp.	10	no	FACW	herbaceous vines, regardles		
9. Hydrocotyle spp.		no	OBL	plants, except woody vines, Im) in height.	iess than approximatei	y 3 π (1
10. Sagittaria graminea		no	OBL	4 ' ·		
11. Solidago canadensis	5	no	FACU	Woody vine- All woody vine	s, regardless of height	
12. Galium spp.	5	no	FACU	4		
	220	= Total Cove	er			
Woody Vine Stratum (Plot size:	)					
Ampelopsis arborea		yes	FAC	_		
2. Mikania scandens	1	yes	FACW	·		
3.				<del> </del>		
4.				Hydrophytic	V / N	
5.				Vegetation Present?	Yes <u>√</u> No_	<del></del>
	2	= Total Cove	er			
Remarks: (If observed, list morph		•				
Percent cover estimates based o	n meandering :	survey of the b	roader co	mmunity.		

County/soil:	Citrus-	Boca
SOIL		

SOIL								Sampling Point:A
Profile De	scription: (Describe	to the de	pth needed to doc			confirm the ab	sence of indicators.	
Depth	Matrix				k Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	
			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
							common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
						····		
			<del></del>					
					•			
T : O	Concentration, D=Depl	ntion Di	-Dadwaad Matrix (			and Crains	ZI continu DI Dor	e Lining, M=Matrix.
	concentration, D=Dept	etion, Riv	=Reduced Matrix, C	S=COV	ered or Coaled S	sanu Grains.		Indicators for Problematic Hydric Soils 3:
				0-1		f (CO) (1 DE		•
Histol					value Below Sur			1 cm Muck (a9) (LRR O)
	Epidon (A2)				Dark Surface (\$			2 cm Muck (A10) (LRR S)
	Histic (A3)				my Mucky Miner	., , ,		Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				my Gleyed Matri			Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)				leted Matrix (F3)			Anomalous Bright Loamy Soils (F20)
Organ	nic Bodies (A6) (LRR F	P, T, U)		Rec	lox Dark Surface	(F6)		(MLRA 153B)
5 cm	Mucky Mineral (A7) (Li	RR P.T.U	1	Dep	leted Dark Surfa	ice (F7)		Red Parent Material (TF2)
	Presence (A8) (LRR		,		lox Depressions			Very Shallow Dark Surface (TF12) (LRR T, U)
		υ,			-	(1 0)		
1 cm	Muck (A9) (LRR P,T)			Mar	i (F10) (LRR U)			Other (Explain in Remarks)
Deple	ted Below Dark Surfac	æ (A11)		Der	leted Orchric (F	11) (MLRA 151	)	
	Dark Surface (A12)	,		Iron	-Manganese Ma	sses (F12) (I R	ROPTI	•
					-			<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (	MLRA 15	0A)	Um	bric Surface (F1	3) (LKK P, 1, U	•	hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (I	LRR O. S	)	Delt	a Orchric (F17)	(MLRA 151)		problematic.
	Gleyed Matrix (S4)		•	Rec	luced Vertic (F18	B) (MLRA 150A	. 150B)	
	Redox (S5)				mont Floodplair			
	ed Matrix (S6)				•		) (MLRA 149A, 153C	: 153D)
					malodo Bright Et	ourny cono (i ze	, (meior 1407), 1000	, 1005)
	Surface (S7) (LRR P,							
Restrictiv	e Layer (If observed)	:						
	Type:							
	Depth (inches):						Hydric Soil Presen	t? Yes <u>√</u> No
Remarks:	<del></del>							
ĺ								

Project/Site: Levy Baseload Transmission Progra	am, LCR	City/County: Citrus		Sampling Date: 10/29/09			
Applicant/Owner: Progress Energy Florida, Inc.		State: FL		Sampling Point: AJ			
Investigator(s): Stacy Rizzo, Tony Davanzo	)	Section, Township, Range: 33 17S 16E					
Landform (hillstope, terrace, etc.): N//	Α	Local relief (concave, convex, none): none Slope (%):					
Subregion (LRR or MLRA): LRR U	Lat: <u>28,9621</u>	11 Long: <u>-82.69</u>	94738	Datum: WGS84			
Soil Map Unit Name: Quartzipsamments, 0 to 9	5 percent slopes		NWI classification:	. <u>N/A</u>			
Are climatic / hydrologic conditions on the site ty	pical for this time of year?	Yes <u></u> ✓	_ No	(If no, explain in Remarks)			
Are Vegetation, Soil,	or Hydrology						
Are Vegetation, Soil,	or Hydrology	_ naturally problematic?	(If needed, explain	any answers in Remarks)			
SUMMARY OF FINDINGS - Attach sit			ansects, impoi	rtant features, etc.			
Hydrophytic Vegetation Present?	Yes No						
Hydric Soil Present?	Yes No	Is the Sampled Area w	ithin a Wetland?	Yes No			
Wetland Hydrology Present?	Yes No						
Remarks:							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)		il Cracks (B6)				
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Veg	getated Concave Surface (B8)			
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pat	iterns (B10)			
Saturation (A3)	Marl Deposits (B15) (LI	RR U)	Moss Trim Li	nes (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor						
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)Crayfish Burrows (C8)					
Drift Deposits (B3)	Presence of Reduced I	on (C4)Saturation Visible on Aerial Imagery (					
Algal Mat or Crust (B4)	Recent Iron Reduction	in Tilled Soils (C6)	Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7	)	itard (D3)				
✓ Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutral	Test (D5)			
Field Observations:				•			
Surface Water Present?	Yes No		•				
Water Table Present?	Yes No		Wetland				
Saturation Present?	Yes No	_ Depth (inches):0	Hydrology				
(includes capillary fringe)			Present?	Yes No			
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previo	us inspections), if available:					
Damouka							
Remarks:							

VEGETATION - Use scientific nar	nes of plants			Sam	pling Point:	AJ
				Dominance Test Worksheet:		
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Species	. <u>1</u>	(A)
2.				That Are OBL, FACW, or FAC:	· •	(17)
3.				Total Number of Dominant	1	(B)
4.				Species Across All Strata:	- <del></del>	(-,
5.				Percent of Dominant Species	100.00	(A/B)
6.				That Are OBL, FACW, or FAC:		· ·
7.				Prevalance Index worksheet:	•	
	0	= Total Cove	r	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:)				OBL species	x1=	
1.				FACW species	x2=	_
2.				FAC species	_^2- _x3=	-
					_	_
3.				FACU species	_x4=	_
4.				UPL species	_x5=	_
5.				Column Totals:	(A)	_ _(B)
6.				1		_ '
7.				Prevalance Index = B/A =		
		= Total Cove		Hydrophytic Vegetation Indic		
Ober the Oterations (Distriction	`	- 10tai 00v0	<b>a</b>	· · · · · · · · · · · · · · · · · · ·		
Shrub Stratum (Plot size:)	)			✓ Dominance Test is 50%		
1.				Prevalence Index is ≤3.0		
2.				Problematic Hydrophytic	c Vegetation <sup>1</sup> (Exp	olain)
3.				<u></u>		
4.				<sup>1</sup> Indicators of hydric soil and we		nust
5.				be present, unless disturbed or		
6.				Definitions of Vegetation Stra	ata:	
7.				1		
	0	= Total Cove	r	Tree- Woody plants, excluding w	ondv vines.	
Herb Stratum (Plot size:	)			approximately 20 ft (6m) or more		(7.6
1. Cladium spp.	50	yes	OBL	cm) or larger in diameter at breas		`
Cyperus spp.	5	no	FACW	Sapling- Woody plants, excludin	ng woody vines	
Ludwigia leptocarpa	1	no	OBL	approximately 20 ft (6m) or more		than 3
4.	<del></del>			in. (7.6 cm) DBH.		
5.				Shrub- Woody plants, excluding	woody vines,	
6.				approximately 3 to 20 ft (1 to 6 m		
7.				Herb- All herbaceous (non-wood	y)plants, including	
8.				herbaceous vines, regardless of	size. Includes woo	
9.				plants, except woody vines, less	than approximately	3 ft (1
10.				m) in height.		
11.				Woody vine- All woody vines, re-	gardless of height.	
12.				1		
	56	= Total Cove	r	1		
Woody Vine Stratum (Plot size:		, , , , , , , , , , , , , , , , , , , ,				
1.	<u> </u>					
2.	•			1		
3		<del></del>				
3. 4.				l bodon skodin		
5.				Hydrophytic	. / No	
J.				Vegetation Present? Yes	s <u> </u>	<del></del>
	0	= Total Cove	r			
Remarks: (If observed, list morpho	ological adapta	itions below).				
Percent cover estimates based on	meandering s	urvey of the b	roader con	nmunity.		

County/soil: Citrus- Quartzipsamments		

SOIL								Sampling Point: AJ
Profile De	scription: (Describe t	o the de	pth needed to doc	ument tl	ne indicator or	confirm the at	sence of indicators.)	
Depth	Matrix		='	Redox	Features		·	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0-6	10 YR 4/2	100	Color (moist)		Турс		TEXICIE	dark grayish brown sand
0-6	10 TR 4/2							dark grayish brown sand
			10 YR 6/2; 10					
1			YR 8/1; 10 YR				splotches and	
6-32	N 5/0; 10 YR 7/1	80	5/2	20	RM	M	pockets	gray and light gray sand
32-42	7.5 YR 5/8	80	5 YR 3/4	20	RM	M	splotches	strong brown sand
42-60	10 YR 5/2	100				. ——		grayish brown sand
42-00	10 11( 3/2							grayish brown sand
<u></u>								
Type: C=0	Concentration, D=Deple	etion, RM	=Reduced Matrix, C	S=Cov€	red or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Hydric So	il Indicators:		· · · · · · · · · · · · · · · · · · ·					ndicators for Problematic Hydric Soils 3:
Histol				Poly	value Below Si	ırface (S8) (LRF		1 cm Muck (a9) (LRR O)
	Epidon (A2)		-			(S9) (LRR S, T,		2 cm Muck (A10) (LRR S)
			-					
	Histic (A3)					ral (F1) (LRR O	) -	Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				my Gleyed Matr		-	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)				leted Matrix (F3		_	Anomalous Bright Loamy Soils (F20)
Organ	ic Bodies (A6) (LRR P	, T, U)		Red	ox Dark Surfac	e (F6)		(MLRA 153B)
5 cm (	Mucky Mineral (A7) (LF	RR P.T.U	1	Dep	leted Dark Surf	ace (F7)		Red Parent Material (TF2)
	Presence (A8) (LRR L		,		ox Depressions	` '	-	Very Shallow Dark Surface (TF12) (LRR T, U)
	Muck (A9) (LRR P,T)	-1	•		(F10) (LRR U)		-	Other (Explain in Remarks)
	ted Below Dark Surface	e (A11)	•			11) (MLRA 151	)	,
	Dark Surface (A12)	,	•	Iron-	-Manganese Ma	asses (F12) (LR	RO, P.T)	
_	Prairie Redox (A16) (M	MLRA 15	0A)		=	3) (LRR P, T, U		Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
	Mucky Mineral (S1) (L		•	—— Delt	a Orchric (F17)	(MLRA 151)		problematic.
1	Gleyed Matrix (S4)	.ra.c 0, 5	,			8) (MLRA 150A	150B)	•
	Redox (S5)		•		,	n Soils (F19) (M		
	, ,		•	_	•		•	450D)
Stripp	ed Matrix (S6)			Ano	maious Bright L	oamy Solls (F20	) (MLRA 149A, 153C,	1530)
Dark	Surface (S7) (LRR P, S	S, T, U)						•
Restrictiv	e Layer (If observed):							
	Type:							
	Depth (inches):						Hydric Soil Present	? Yes ✓ No .
	Deptit (inches).						Inyunc Son Fresen	tr tes v No
Remarks:								
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Project/Site: Levy Baseload Transmission Progr	ram, LCR	City/County: Sampling Date:10			e: 10/29/09	
Applicant/Owner: Progress Energy Florida, Inc.	State:FL		Sampling Poir	ıt: <u>AK</u>		
Investigator(s): Stacy Rizzo, Tony Davanz		Section, Township, Range: 33 17S 16E				
Landform (hillslope, terrace, etc.): N/	/A	Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U		76 Long: <u>-82.6</u>	93900		Datum: WGS84	
Soil Map Unit Name: Quartzipsamments, 0 to			_NWI classification:			
Are climatic / hydrologic conditions on the site ty		Yes✓	_ _ No	(If no, explain	in Remarks)	
	or Hydrology				Yes <u> √</u> No	
Are Vegetation, Soil,			(If needed, explain	any answers in	n Remarks)	
SUMMARY OF FINDINGS - Attach sit	te map showing sampli	ing point locations, t	ransects, impo	rtant feature	es, etc.	
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	Yes No	Is the Sampled Area w	ithin a Wetland?	Yes	No	
Wetland Hydrology Present?	Yes No	]				
Remarks:						
					•	
	<del></del>					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum o	f two required)	
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1)	Water-Stained Leaves (	(B9)Sparsely Vegetated Concave Surface			e Surface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pat	tterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	·	Dry-Season	Water Table (C	2)	
Sediment Deposits (B2)	Oxidized Rhizospheres	•	Crayfish Buri	•		
Drift Deposits (B3)	Presence of Reduced In		•	ion Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction i	, ,		Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	· · · · · · · · · · · · · · · · · · ·				
✓ Inundation Visible on Aerial Imagery (B7)		<del></del>				
Field Observations:	7	,	T			
Surface Water Present?	Yes No	Depth (inches):				
Water Table Present?	Yes No		1			
Saturation Present?	Yes No		Wetland			
	162 <u>·</u> NO	_ Deput (iliches). 0-12	Hydrology Present?	Yan d	NI.	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monito	oring well serial photos previo	us inspections) if available		Yes <u>✓</u>	No	
Describe (1000) and Date (2000). Sange,	Jing Hon, donas prieses, p	do mopositione, il available	•			
Remarks:						
:						

VEGETATION - Use scientific nar	nes of plants			Sampling Point:	AK
				Dominance Test Worksheet:	
·	Absolute %	Dominant	Indicator		
Tree Stratum (Plot size:)	Cover	Species?	Status		
1.				Number of Dominant Species	(A)
2.				That Are OBL, FACW, or FAC: □	(/-)
3.				Total Number of Dominant	(B)
4.				Species Across All Strata:	(D)
5.				Percent of Dominant Species	(A/B)
6.				That Are OBL, FACW, or FAC:	(,,,,
7.				Prevalance Index worksheet:	
	0	= Total Cove	er	Total % Cover of: Multiply by:	
Sapling Stratum (Plot size: )				OBL species x1=	
	. 40		OBL		
Salix caroliniana	40	yes	OBL	FACW speciesx2=	_
Sabal palmetto	5	no	FAC	FAC speciesx3=	_
Fraxinus caroliniana	1	no	OBL	FACU speciesx4=	_
4.				UPL species x5=	
5.				Column Totals: (A)	— (B)
6.					_(''
		•		1 5 , , , 54	
7.				Prevalance Index = B/A =	
	46	= Total Cove	er	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is 50%	
Cephalanthus occidentalis	5	yes	OBL	Prevalence Index is ≤3.0 <sup>1</sup>	
Baccharis sp.	1	no	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	olain)
3.	<del></del>	110	1710	1 roblemato riyarophytic vegetation (Ex	Jidiiii)
4.				Indicators of hydric soil and wetland hydrology r	nust
5.				be present, unless disturbed or problematic.	
6.				Definitions of Vegetation Strata:	
<del>7</del> .			· <del></del>	Definitions of Vegetation Strata.	
1.				4	
	6	= Total Cov	er	Tree- Woody plants, excluding woody vines,	
Herb Stratum (Plot size:	)			approximately 20 ft (6m) or more in height and 3 in.	(7.6
1. Typha spp.	10	yes	OBL	cm) or larger in diameter at breast height (DBH).	
2. Diodia spp.	5	no	FAC	Sapling- Woody plants, excluding woody vines,	
<ol><li>Cyperus spp.</li></ol>	5	no	FACW	approximately 20 ft (6m) or more in height and less	than 3
Sagittaria spp.	5	no	OBL	in. (7.6 cm) DBH.	
5. Pluchea odorata	5	no	FACW	Shrub- Woody plants, excluding woody vines,	
6. Ludwigia peruviana	2	no	OBL	approximately 3 to 20 ft (1 to 6 m) in height.	
7. Spilanthes spp.	2	no	FACW	Herb- All herbaceous (non-woody)plants, including	
8. Eupatorium serotinum	1	no	FAC	herbaceous vines, regardless of size. Includes woo	
9. Cladium spp.	1	no	OBL	plants, except woody vines, less than approximately	y 3 ft (1
10. Erianthus spp.	1	no	FAC	m) in height.	
11.				Woody vine- All woody vines, regardless of height.	
12.					
	37	= Total Cov	er		
Woody Vine Stratum (Plot size:	)				
Mikania scandens	/ 	yes	FACW		
Ampelopsis arborea	20	yes	FAC	1	
Parthenocissus quinquefolia	5	no	FAC		
4.				Hydrophytic	
5.	-			Hydrophytic Vegetation Present? Yes ✓ No	
J.	. –	<del>-</del>		_Vegetation Present? YesNo	<del></del>
	45	= Total Cov	er		
Remarks: (If observed, list morphe	ological adapta	itions below).			1
Percent cover estimates based or	n meandering s	survey of the I	broader co	mmunity.	

County/soil: Citrus- Quartzipsamments	
SOIL	San

SOIL	i. Ola do Guarte pour li	110.110						Sampling Point: AK	
	scription: (Describe t	o the de	pth needed to doc	ument t	he indicator	or confirm the ab	sence of indicators		
Depth	Matrix			Redox	x Features			•	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks	
0-6	10 YR 4/2	100						dark grayish brown sand	
			10 YR 6/2; 10						
			YR 8/1; 10 YR				splotches and		
6-32	N 5/0; 10 YR 7/1	80	5/2	20	RM	M	pockets	gray and light gray sand	
32-42	7.5 YR 5/8	80	5 YR 3/4	20	RM	M	splotches	strong brown sand	
42-60	10 YR 5/2	100						grayish brown sand	
<b></b>								<del>-</del>	
<del>                                     </del>					-				
Type: C=(	Concentration, D=Deple	etion, RM	l=Reduced Matrix, (	CS=Cove	ered or Coate	ed Sand Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.	
	il Indicators:							Indicators for Problematic Hydric Soils 3:	
Histol				Poly	value Below	Surface (S8) (LRR	₹ S, T, U)	1 cm Muck (a9) (LRR O)	
	Epidon (A2)					ce (S9) (LRR S, T, I		2 cm Muck (A10) (LRR S)	
Black	Histic (A3)			Loar	my Mucky Mi	lineral (F1) (LRR O)	)	Reduced Vertic (F18) (outside MLRA 150A, B)	
Hydro	gen Sulfide (A4)			Loar	my Gleyed M	/latrix (F2)	•	Piedmont Floodplain Soils (F19) (LRR P, S, T)	
	ied Layers (A5)		•		oleted Matrix (			Anomalous Bright Loamy Soils (F20)	
Organ	ic Bodies (A6) (LRR P	, T, U)		Red	dox Dark Surf	iace (F6)		(MLRA 153B)	
5 cm !	Mucky Mineral (A7) (LF	RR P.T.U	1	Dер	oleted Dark S	iurface (F7)		Red Parent Material (TF2)	
	Presence (A8) (LRR L		,	Red	tox Depression	ons (F8)		Very Shallow Dark Surface (TF12) (LRR T, U)	
_	` ' '	••	•		1 (F10) (LRR	• •		Other (Explain in Remarks)	
<u> </u>	Muck (A9) (LRR P,T)					•		Other (Explain in Remarks)	
Deplet	ted Below Dark Surface	e (A11)		Dep	leted Orchric	c (F11) (MLRA 151)	.)		
Thick	Dark Surface (A12)			Iron	-Manganese	Masses (F12) (LRI	(R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland	
Coast	Prairie Redox (A16) (N	VILRA 15	(A)	Uml	bric Surface	(F13) (LRR P, T, U	T, U) hydrology must be present, unless disturbed or		
			•		•	17) (MLRA 151)	•	problematic.	
	Mucky Mineral (S1) (L	.RR U, 5			•		4530)	problema.s.	
_ ′	Gleyed Matrix (S4)					(F18) (MLRA 150A,			
<u> </u>	Redox (S5)				•	plain Soils (F19) (MI	•	0.4500	
_ ''	ed Matrix (S6)			Ano	matous Brign	it Loamy Soils (FZU	0) (MLRA 149A, 1530	G, 163D)	
	Surface (S7) (LRR P, S								
1	e Layer (If observed):								
	Type:								
	Depth (inches):						Hydric Soil Prese	ent? Yes <u>√</u> No	
Remarks:									
								,	
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Project/Site: Levy Baseload Transmission Progr	am, LCR	City/County: Citrus		Sampling Date:	10/29/09
Applicant/Owner: Progress Energy Florida, Inc.	•	State: FL		Sampling Point:	AL
Investigator(s): Stacy Rizzo, Tony Davanzo	0				
Landform (hillslope, terrace, etc.): N/	Α	Local relief (concave, con-	vex, none): none	Slop	e (%):
Subregion (LRR or MLRA): LRR U	Lat: 28.96144	16 Long: -82.69	93500	Datu	m: WGS84
Soil Map Unit Name: Quartzipsamments, 0 to			NWI classification:	N/A	
Are climatic / hydrologic conditions on the site ty	pical for this time of year?	Yes _✓	_ _ No	(If no, explain in Re	emarks)
·	or Hydrology		Are circumstances		✓ No
Are Vegetation, Soil,			(If needed, explain		marks)
SUMMARY OF FINDINGS - Attach sit				•	
Hydrophytic Vegetation Present?	Yes No	]			
Hydric Soil Present?	YesNo	Is the Sampled Area w	ithin a Wetland?	Yes No _	
Wetland Hydrology Present?	Yes✓ No	1			
Remarks:		<del>-</del>			
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two	required)
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil (	Cracks (B6)	İ
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Veg	etated Concave Su	ırface (B8)
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor		Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	•	Crayfish Burrows (C8)		
Drift Deposits (B3)	Presence of Reduced In			sible on Aerial Imag	iery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction i	• •	Geomorphic I	_	jery (00)
· · ·	Thin Muck Surface (C7)	• • •			
Iron Deposits (B5)  ✓ Inundation Visible on Aerial Imagery (B7)			Shallow Aquit		
	Other (Explain in Rema	rks)	FAC Neutral	rest (D5)	
Field Observations:	Ma (		1		
Surface Water Present?	Yes No		1		
Water Table Present?	Yes No		Wetland		
Saturation Present?	Yes No	_ Depth (inches):0-12	Hydrology		
(includes capillary fringe)			Present?	Yes V No	
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previo	us inspections), if available:			
Remarks:					
				•	

VEGETATION - Use scientific na	mes of plants				Sampling Point:	AL
				Dominance Test Worksl	neet:	
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status			
1. 2.				Number of Dominant Spe That Are OBL, FACW, or	<b>–</b>	(A)
3.		***************************************		Total Number of Dominar	nt	(D)
4.				Species Across All Strata	<u>5</u>	(B)
5.				Percent of Dominant Spe		(A/B)
6.				That Are OBL, FACW, or	FAC:	(,,,,,
7.				Prevalance Index works		
Sapling Stratum (Plot size:)	0	= Total Cov	er	Total % Cover of: OBL species	Multiply by: x1=	
Salix caroliniana	40	ves	OBL	FACW species	x2=	<del></del>
Sabal palmetto	5			<del>-</del>	<del></del>	_
		no	FAC	FAC species	x3=	_
Fraxinus caroliniana	1	no	OBL	FACU species	x4=	_
4.		<u> </u>		UPL species	x5=	_
5.				Column Totals:	(A)	_(B)
6.						
7.				Prevalance Index = E	3/A =	
	46	= Total Cov	er	Hydrophytic Vegetation	Indicators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is	50%	
Cephalanthus occidentalis	5	yes	OBL	Prevalence Index i	s ≤3.0 <sup>1</sup>	
Baccharis sp.	1	no	FAC	Problematic Hydro	phytic Vegetation¹ (Exp	plain)
3.				<u>]</u> ,		
4.				Indicators of hydric soil a		must
5.				be present, unless disturb	·	
6. 7.				Definitions of Vegetation	n Strata:	
1.		- T-4-I O		<u>.</u>		
Hart Otal (BL)		= Total Cov	er	Tree- Woody plants, exclud	•	/7.C
Herb Stratum (Plot size:	•	•	0.01	approximately 20 ft (6m) or cm) or larger in diameter at	•	0.1)
<ol> <li>Typha spp.</li> <li>Diodia spp.</li> </ol>	- 10 5	yes	OBL	4 ' -	• ,	
Diodia spp.     Cyperus spp.	5	no	FACW	Sapling- Woody plants, ex		46 2
Sagittaria spp.	5	no	OBL	approximately 20 ft (6m) or in. (7.6 cm) DBH.	more in neight and less	man 3
Pluchea odorata	5	no	FACW	Shrub- Woody plants, excl	uding woody vinos	
Ludwigia peruviana		no	OBL	approximately 3 to 20 ft (1 t		
7. Spilanthes spp.	2	no	FACW	Herb- All herbaceous (non-	•	
8. Eupatorium serotinum	1	no	FAC	herbaceous vines, regardle	ss of size. Includes woo	odv
9. Cladium spp.	1	no	OBL	plants, except woody vines,	less than approximately	y Śft (1
10. Erianthus spp.	1	no	FAC	m) in height.		
11.				Woody vine- All woody vine	es, regardless of height.	
12.				]		
	37	= Total Cov	er			
Woody Vine Stratum (Plot size:	)					
Mikania scandens		yes	FACW			
Ampelopsis arborea	20	yes	FAC	1		
3. Parthenocissus quinquefolia	5	no	FAC			
4.	·			Hydrophytic		
5.				Vegetation Present?	Yes <u> </u>	<u>.</u>
	45	= Total Cov	er	1		
Remarks: (If observed, list morphe	ological adapta					
Percent cover estimates based or	n meandering s	urvey of the I	broader cor	mmunity.		

County/soil: Citrus- Quartzipsamments		

SOIL								Sampling Point:AL
Profile De	scription: (Describe t	o the de	pth needed to doc	ument ti	ne indicator or	confirm the at	sence of indicators.)	
Depth	Matrix		,		Features		,	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0-6	10 YR 4/2	100	Coloi (moist)	-70	Туре		Texture	
0-0	10 17 4/2	100					· · · · · · · · · · · · · · · · · · ·	dark grayish brown sand
			10 YR 6/2; 10					
			YR 8/1; 10 YR				splotches and	
6-32	N 5/0; 10 YR 7/1	80	5/2	20	RM	М	pockets	gray and light gray sand
32-42	7.5 YR 5/8	80	5 YR 3/4	20	RM	M	splotches	strong brown sand
42-60	10 YR 5/2	100					<del></del>	grayish brown sand
<del></del>							<del></del>	grayion brown said
<del></del>								
<b>└</b>								
Type: C=0	Concentration, D=Deple	etion, RM	I=Reduced Matrix, C	CS=Cove	ered or Coated S	Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.
Hydric So	I Indicators:						li	ndicators for Problematic Hydric Soils 3:
Histol	(A1)			Polv	value Below Sur	rface (S8) (LRF	RS, T, U)	1 cm Muck (a9) (LRR O)
	Epidon (A2)		•		Dark Surface (			2 cm Muck (A10) (LRR S)
	Histic (A3)		•		my Mucky Miner			Reduced Vertic (F18) (outside MLRA 150A, B)
			•				' -	
	gen Sulfide (A4)				my Gleyed Matri		-	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)				leted Matrix (F3		_	Anomalous Bright Loamy Soils (F20)
Organ	ic Bodies (A6) (LRR P	, T, U)		Red	ox Dark Surface	e (F6)		(MLRA 153B)
5 cm f	Mucky Mineral (A7) (LF	R P.T.U	}	Dep	leted Dark Surfa	ace (F7)		Red Parent Material (TF2)
	Presence (A8) (LRR L		,		ox Depressions		_	Very Shallow Dark Surface (TF12) (LRR T, U)
		"			•		-	
	Muck (A9) (LRR P,T)				(F10) (LRR U)			Other (Explain in Remarks)
	ed Below Dark Surface	e (A11)			leted Orchric (F		•	
Thick	Dark Surface (A12)			Iron-	-Manganese Ma	isses (F12) (LR	RO, P,T) 3	Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (M	ILRA 15	0A)	Umb	oric Surface (F1:	3) (LRR P, T, U		hydrology must be present, unless disturbed or
i —	, , ,		•				•	problematic.
	Mucky Mineral (S1) (L	RR O, S	) .		a Orchric (F17)	. ,	•	nobicinatic.
	Gleyed Matrix (S4)				uced Vertic (F18	, ,		
Sandy	Redox (S5)				lmont Floodplair			
Strippe	ed Matrix (S6)			Ano	malous Bright L	oamy Soils (F20	)) (MLRA 149A, 153C,	153D)
Dark 9	Surface (S7) (LRR P, S	T IN						
	Layer (If observed):						T	
1							1	
	Type:						I	
	Depth (inches):					·	Hydric Soil Present	? Yes <u>√</u> No
Remarks:								
i								
l .								
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1								
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1								

Project/Site: Levy Baseload Transmission Progr	ram, LCR	City/County: Citrus		_ Sampling Date:10/29/09	
Applicant/Owner: Progress Energy Florida, Inc.	,	State:FL		Sampling Point: AM	
Investigator(s): Stacy Rizzo, Tony Davanz	0	Section, Township, Range: 33 17S 16E			
Landform (hillstope, terrace, etc.): N	'A	Local relief (concave, con	vex, none): <u>none</u>	Slope (%):	
Subregion (LRR or MLRA): LRR U	Lat: 28,96098	33 Long: -82.6	93680	Datum: WGS84	
Soil Map Unit Name: Quartzipsamments, 0 to	5 percent slopes		_NWI classification	n: <u>N/A</u>	
Are climatic / hydrologic conditions on the site ty	pical for this time of year?	Yes✓	_ No	_ (If no, explain in Remarks)	
Are Vegetation, Soil	or Hydrology	_significantly disturbed?	Are circumstance	s normal? YesNo	
Are Vegetation, Soit	or Hydrology	_naturally problematic?	(If needed, explai	n any answers in Remarks)	
SUMMARY OF FINDINGS - Attach si	te map showing sampli	ing point locations, t	ransects, impo	rtant features, etc.	
Hydrophytic Vegetation Present?	Yes✓ No				
Hydric Soil Present?	Yes No	Is the Sampled Area w	rithin a Wetland?	Yes No	
Wetland Hydrology Present?	Yes No				
Remarks:					
		· · · · · ·			
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil	Cracks (B6)	
✓ Surface Water (A1)	Water-Stained Leaves (	(B9)	Sparsely Ve	getated Concave Surface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor		Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bu	rrows (C8)	
Drift Deposits (B3)	Presence of Reduced In		Saturation \	/isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction i	, ,	· <u></u>	Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	, ,	Shallow Aqu	, ,	
Inundation Visible on Aerial Imagery (B7	)Other (Explain in Rema	rks)	FAC Neutra		
Field Observations:					
Surface Water Present?	Yes No	Depth (inches): 12			
Water Table Present?	Yes ✓ No		1		
Saturation Present?	Yes_ ✓ No		Wetland		
(includes capillary fringe)		, (,-	Hydrology Present?	Yes ✓ No	
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previo	us inspections), if available	·	100	
		, ,,			
Damada					
Remarks:					

<b>VEGETATION</b> - Use scientific nar	mes of plants			Sa	ampling Point:	<u> </u>
	•			Dominance Test Workshee	et:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size: )	Cover	Species?	Status			
1.		•		Number of Dominant Specie	es .	
2.				That Are OBL, FACW, or FA	4	(A)
3.				Total Number of Dominant		
4.				Species Across All Strata:	<u>3</u>	(B)
5.	<del></del>	<del></del>		Percent of Dominant Specie	.e	
6.				That Are OBL, FACW, or FA		(A/B)
				† · · · · · · · · · · · · · · · · · · ·		
7.				Prevalance Index workshe	et:	
	0	= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:)				OBL species	x1=	
1.				FACW species	x2=	_
				· · · · · · · · · · · · · · · · · · ·		_
2.				FAC species	x3=	_ '
3.				FACU species	x4=	_
4.				UPL species	x5=	
5.				Column Totals:	(A)	– (B)
6.	•					_\'
				4		
7.				Prevalance Index = B/A	\ =	
	0	= Total Cove	er	Hydrophytic Vegetation In	dicators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is 5	0%	
	<i>'</i>					
1.				Prevalence Index is :		
2.				Problematic Hydroph	ytic Vegetation' (Exp	olain)
3.				1,		
4.				<sup>1</sup> Indicators of hydric soil and		nust
5.				be present, unless disturbed	l or problematic.	
6.				Definitions of Vegetation S	Strata:	
7.				1		
		= Total Cove		Tree- Woody plants, excludin	a woody vines	
Herb Stratum (Plot size:		rota, core		approximately 20 ft (6m) or m		(7.6
•			OBL	cm) or larger in diameter at br		(,,,
1. Cladium spp.	. 10 5	yes	OBL	4		
2. Spilanthes spp.		yes	FACW	Sapling- Woody plants, exclu	•	41 2
<ol> <li>Proserpinaca spp.</li> <li>Sesbania spp.</li> </ol>	5	yes	OBL	approximately 20 ft (6m) or m in. (7.6 cm) DBH.	ore in neight and less	tnan 3
	2	no	FAC	4 ` ′		
Saururus cernuus     Diodia spp.		no	OBL	Shrub- Woody plants, exclud	• •	
6. Diodia spp. 7.	1	no	FAC	approximately 3 to 20 ft (1 to 6		
				Herb- All herbaceous (non-wo		
8. 9.				herbaceous vines, regardless		•
				plants, except woody vines, le	ess than approximately	y 3 π (1
10.				m) in height.		
11.				Woody vine- All woody vines	, regardless of height.	
12.				]		
	24	= Total Cove	er	1		
Moody Vina Stratum (Plot size:						
Woody Vine Stratum (Plot size:	)					
1. 2.	· ——			-		
3.		<del></del>				
	·			4		
4.	<u> </u>			Hydrophytic		
5.				Vegetation Present?	Yes <u> </u>	·
	0	= Total Cove	er			
Remarks: (If observed, list morph-	ological adapta	tions below).		•		
Percent cover estimates based or	•	•	roader coi	mmunity		

County/soil:	Citrus-	Quartzipsamments
SOIL		

SOIL Profile De	escription: (Describe	to the de	pth needed to doc	ument ti	he indicator or	r confirm the al	sence of indicator	Sampling Point: All		
Depth	Matrix				k Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks		
0-6	10 YR 4/2	100						dark grayish brown sand		
			10 YR 6/2; 10							
			YR 8/1; 10 YR				splotches and			
6-32	N 5/0; 10 YR 7/1	80	5/2	20	RM	М	pockets	gray and light gray sand		
32-42	7.5 YR 5/8	80	5 YR 3/4	20	RM	M	splotches	strong brown sand		
42-60	10 YR 5/2	100						grayish brown sand		
		—						<u> </u>		
							•			
							<del> </del>			
Type: C=	Concentration, D=Dept	etion, RM	=Reduced Matrix,	CS=Cove	ered or Coated	Sand Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.		
Hydric Sc	oil Indicators:							Indicators for Problematic Hydric Soils 3:		
Histol	I (A1)			Poly	value Below Si	urface (S8) (LRF	₹ S, T, U)	1 cm Muck (a9) (LRR O)		
Histic	Epidon (A2)			Thin	Dark Surface	(S9) (LRR S, T,	U)	2 cm Muck (A10) (LRR S)		
Black	Histic (A3)			Loai	my Mucky Mine	eral (F1) (LRR O	)	Reduced Vertic (F18) (outside MLRA 150A, B)		
	ogen Sulfide (A4)			Loai	my Gleyed Mat	rix (F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)		
	fied Layers (A5)				leted Matrix (F			Anomalous Bright Loamy Soils (F20)		
Orga	nic Bodies (A6) (LRR P	P, T, U)		Red	ox Dark Surfac	ce (F6)		(MLRA 153B)		
5 cm	Mucky Mineral (A7) (LI	RR P,T.U	)	Dер	leted Dark Surl	face (F7)		Red Parent Material (TF2)		
	Presence (A8) (LRR I		•	Red	ox Depressions	s (F8)		Very Shallow Dark Surface (TF12) (LRR T, U)		
_	Muck (A9) (LRR P,T)	-,			I (F10) (LRR U			Other (Explain in Remarks)		
						•		Other (Explain in Nemarks)		
	eted Below Dark Surfac	e (A11)			•	F11) (MLRA 151	•			
Thick	Dark Surface (A12)				_	lasses (F12) (LR		<sup>3</sup> Indicators of hydrophytic vegetation and wetland		
Coas	t Prairie Redox (A16) (I	MLRA 15	0A)	Uml	oric Surface (F	13) (LRR P, T, L	1)	hydrology must be present, unless disturbed or		
Sand	y Mucky Mineral (S1) (I	RR O. S	<b>)</b>	Delt	a Orchric (F17)	(MLRA 151)		problematic.		
	y Gleyed Matrix (S4)	0, 0	,			18) (MLRA 150A	150B)			
	y Redox (S5)				•	in Soils (F19) (M				
_	ped Matrix (S6)						D) (MLRA 149A, 153	3C. 153D)		
	` ,				maiouo birgini		, ( <u>-</u>	,,		
	Surface (S7) (LRR P, S						1			
Restrictiv	e Layer (If observed):	:								
	Type: Depth (inches):						Hydric Soil Pres	ent? Yes ✓ No		
Remarks:	Depth (inches):						Inyunc Son Presi	ent? Yes ✓ No		
Remarks.										
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Project/Site: Levy Baseload Transmission Progra	ım, LCR	City/County: Citrus		Sampling Date: 10/29/09		
Applicant/Owner: Progress Energy Florida, Inc.		State: FL	Sampling Point: AN			
Investigator(s): Stacy Rizzo, Tony Davanzo		Section, Township, Range: 33 17S 16E				
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U	Lat: 28.96043	33Long:82.68	39096	Datum: WGS84		
Soil Map Unit Name: Boca fine sand			NWI classification			
Are climatic / hydrologic conditions on the site typ	pical for this time of year?	Yes✓	_ No	(If no, explain in Remarks)		
Are Vegetation, Soil,	or Hydrology		Are circumstances			
	or Hydrology		(If needed, explain	any answers in Remarks)		
SUMMARY OF FINDINGS - Attach si			ransects, impo	ortant features, etc.		
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present? Yes ✓ No		Is the Sampled Area w	rithin a Wetland?	Yes No		
Wetland Hydrology Present?	Yes✓No					
Remarks:	<del></del>	<del> </del>				
	•					
HYPROLOGY						
HYDROLOGY						
Wetland Hydrology Indicators:			•	ors (minimum of two required)		
Primary Indicators (minimum of one is required; of			Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (	B9)		getated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)			
Saturation (A3)	Mart Deposits (B15) (LF	RR U)	Moss Trim L	ines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	rows (C8)		
Drift Deposits (B3)	Presence of Reduced Ir	on (C4)	Saturation V	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction i	n Tilled Soils (C6)	Geomorphic	Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	•	Shallow Aqu	iitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutral	Test (D5)		
Field Observations:						
Surface Water Present?	Yes No	_ Depth (inches):	_			
Water Table Present?	Yes No	_ Depth (inches):	]			
Saturation Present?	Yes No		Wetland			
(includes capillary fringe)			Hydrology Present?	Yes ✓ No		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	inspections), if available:	,			
(	<b></b>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Remarks:						
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VEGETATION - Use scientific nar	nes of plants				Sampling Point: _	AN
				Dominance Test Works	heet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Spe	9	(A)
2.				That Are OBL, FACW, or	FAC:	(**)
3.				Total Number of Dominar	9	(B)
4				Species Across All Strata	:	<b>\-</b> /
5.				Percent of Dominant Spe	100.	.00 (A/B)
6.				That Are OBL, FACW, or		
7				Prevalance Index works	heet:	
	0	= Total Cove	r	Total % Cover of:	Multiply	by:
Sapling Stratum (Plot size:	)			OBL species	x1=	
Sabal palmetto	10	yes	FAC	FACW species	x2=	
Salix caroliniana	10		OBL	FAC species	x3=	
		yes		·		
Pinus elliottii	10	yes	FACW	FACU species _	x4=	
Chamaecyparis thyoides	10	yes	OBL	UPL species _	x5=	
Acer rubrum	5	no	OBL	Column Totals:	(A)	(B)
6.						
7.				Prevalance Index = I	B/A =	
	45	= Total Cove	r	Hydrophytic Vegetation		
Chrish Stratum (Blat aire)	\	10101 0010	•	1		
Shrub Stratum (Plot size:	_ <i>-</i> /					
Baccharis sp.	60	yes	FAC	Prevalence Index		
Myrica cerifera	30	yes	FAC	Problematic Hydro	ophytic Vegetation	(Explain)
Ilex cassine	10	no	FACW	1		
4.				Indicators of hydric soil a		
5.				be present, unless disturt	· · · · · · · · · · · · · · · · · · ·	
6.				Definitions of Vegetatio	n Strata:	
7.				1		
	100	= Total Cove	r	Tree- Woody plants, exclu-		
Herb Stratum (Plot size:)				approximately 20 ft (6m) or		•
Andropogon glomeratus	20	yes	FACW	cm) or larger in diameter a	t breast height (DBI	H).
2. Flaveria spp.	10	yes	FACW	Sapling- Woody plants, ex	cluding woody vine	s,
<ol><li>Lobelia spp.</li></ol>	10	yes	OBL	approximately 20 ft (6m) or	r more in height and	less than 3
Cladium spp.	5	no	OBL	in. (7.6 cm) DBH.		
<ol><li>Erianthus spp.</li></ol>	5	no	FAC	Shrub- Woody plants, exc		
6. Solidago spp.	5	no	FACU	approximately 3 to 20 ft (1	to 6 m) in height.	
7. Hyptis alata	5	no	OBL	Herb- All herbaceous (non		
Andropogon virginicus	5	no	FAC	herbaceous vines, regardle		-
Rhynchospora colorata	2	no	OBL	plants, except woody vines	s, iess tnan approxir	nately 3 ft (1
10. Eupatorium serotinum	1	no	FAC	m) in height.		
11.				Woody vine- All woody vir	nes, regardiess of h	eight.
12.				1		
	68	= Total Cove	er			
Woody Vine Stratum (Plot size:	)					
1.				]		
2.						
3.						
4.				Hydrophytic		
5.				Vegetation Present?	YesN	lo
	<u> </u>	= Total Cove	r	1		
Remarks: (If observed, list morph				ı		
Percent cover estimates based or		•	roader coi	mmunitv.		

County/soil:	Citrus-	Boca

Office De	escription: (Describe	to the de	pth needed to doo	ument th	e indicator or	confirm the ab	sence of indicators	.)
epth	Matrix				Features			
ches)	Color (moist)	%	Color (moist)	_%_	Type	Loc²	Texture	Remarks
7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	
			10 YR 6/6; 10				distinct mottles	
20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
							common medium	
-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
-80	10 YR 7/3							very pale brown fine sand
				—				· · · · · · · · · · · · · · · · · · ·
ne: C=	Concentration, D=Dep	letion RM	=Reduced Matrix (	^S=Cove	red or Coated S	and Grains	21 ocation: D1 = Por	re Lining, M=Matrix.
	oil Indicators:	iction, mi	I-reduced Matrix,	30-00VE	red or Coaled C	and Oranis.	LOCATION, I L-I O	Indicators for Problematic Hydric Soils 3:
Histol				Doba	John Dolom Com	face (CO) (I DD	C T III	
	Epidon (A2)				value Below Sur			1 cm Muck (a9) (LRR O)
					Dark Surface (S			2 cm Muck (A10) (LRR S)
	Histic (A3)				ny Mucky Miner		1	Reduced Vertic (F18) (outside MLRA 150A, E
	gen Sulfide (A4)				ny Gleyed Matri			Piedmont Floodplain Soils (F19) (LRR P, S, T)
	fied Layers (A5)				eted Matrix (F3)			Anomalous Bright Loamy Soils (F20)
_Orgai	nic Bodies (A6) (LRR I	P, T, U)		Red	ox Dark Surface	(F6)		(MLRA 153B)
5 cm	Mucky Mineral (A7) (L	RR P,T,U	)	Depl	eted Dark Surfa	ice (F7)		Red Parent Material (TF2)
	Presence (A8) (LRR		•	Red	ox Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
		-,			(F10) (LRR U)	(-)		Other (Explain in Remarks)
1 cm	Muck (A9) (LRR P,T)				(F10) (LKK U)			Other (Explain in Remarks)
Deple	ted Below Dark Surface	æ (A11)		Depl	eted Orchric (F	11) (MLRA 151	)	
Thick	Dark Surface (A12)			Iron-	Manganese Ma	sses (F12) (LR	R O. P.T)	3
	, ,	MI DA 45	0.0.		ric Surface (F13			<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coas	t Prairie Redox (A16) (	MLKA 15	UA)		inc Surface (F 13	) (LKK P, 1, U	,	hydrology must be present, unless disturbed or
Sand	y Mucky Mineral (S1) (	LRR O, S	)	Delta	a Orchric (F17) (	(MLRA 151)		problematic.
Sand	Gleyed Matrix (S4)		•	Redu	uced Vertic (F18	3) (MLRA 150A	. 150B)	
	Redox (S5)				mont Floodplain			
_	ed Matrix (S6)						) (MLRA 149A, 1530	: 153D)
	` '				naious Brigin Ec	outry cons (1 Ec	, (ME101 140A, 100C	, 1000/
	Surface (S7) (LRR P,							
strictiv	e Layer (If observed)	:						
	Type:							
	Depth (inches):						Hydric Soil Presei	nt? Yes <u></u> No
narks:								
						-		
								•

Project/Site: Levy Baseload Transmission Progra	City/County: Citrus		_Sampling Date:	10/29/09			
Applicant/Owner: Progress Energy Florida, Inc.	State: FL		Sampling Point	:AO			
Investigator(s): Stacy Rizzo, Tony Davanzo	_ Section, Township, Range: <u>33 17S 16E</u>						
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, conv	ex, none): <u>none</u>	s	lope (%):		
Subregion (LRR or MLRA): LRR U	Lat: 28.96113	6Long;82.68	35416		atum: WGS84		
Soil Map Unit Name: Boca fine sand			NWI classification				
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>√</u>	_ No	(If no, explain ir	n Remarks)		
	or Hydrology		Are circumstances		esNo		
	or Hydrology		(If needed, explain		Remarks)		
SUMMARY OF FINDINGS - Attach sit			•	-	*		
Hydrophytic Vegetation Present?	Yes✓No	. <b></b>			,		
Hydric Soil Present?	Yes ✓ No	Is the Sampled Area within a Wetland? Yes ✓ No					
Wetland Hydrology Present?	Yes✓No	1					
Remarks:							
L							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of	two required)		
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil Cracks (B6)				
✓ Surface Water (A1)	Water-Stained Leaves (I	B9)Sparsely Vegetated Concave Surface (B8			Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)				
✓ Saturation (A3)	Marl Deposits (B15) (LR	R U)	Moss Trim Lines (B16)				
Water Marks (B1)	C1)	Dry-Season Water Table (C2)					
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Burrows (C8)				
Drift Deposits (B3)	on (C4)	Saturation Visible on Aerial Imagery (C9)					
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)Geomorphic Position (D2)					
Iron Deposits (B5)							
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)Other (Explain in Remar	·					
Field Observations:	<u> </u>				- 1		
Surface Water Present?	Yes No	Depth (inches): 0-12					
Water Table Present?	Yes✓ No		1				
Saturation Present?	Yes✓ No	Depth (inches): 0	Wetland				
(includes capillary fringe)		. Dop (ooo)	Hydrology Present?	Yes <u>✓</u> N	lo		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	inspections), if available:	riesenti	163			
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Remarks:							
<u>'</u>							

VEGETATION - Use scientific nar	mes of plants			Sampling Point:	<u> AO</u>
:				Dominance Test Worksheet:	
	Absolute %	Dominant	Indicator		
Tree Stratum (Plot size:)	Cover	Species?	Status		
1.				Number of Dominant Species	(A)
2.				I mat Are OBL, FACVV, or FAC:	('')
3.				Total Number of Dominant	(B)
4.				Species Across All Strata:	(5)
5.				Percent of Dominant Species 100.00	(A/B)
6.				That Are OBL, FACW, or FAC:	(, , , ,
7.				Prevalance Index worksheet:	ļ
		= Total Cove		Total % Cover of: Multiply by:	
Sapling Stratum (Plot size:	-		•	OBL species x1=	
. · • · · · · · · · · · · · · · · · · ·	<i>'</i>			<u> </u>	-
1.				FACW speciesx2=	- 1
2.				FAC speciesx3=	_
3.				FACU speciesx4=	
4.				UPL species x5=	_
5.	. ——			Column Totals: (A)	– (B)
6.		<del></del>		(//	- (5)
				4 <u></u> ,	
7.				Prevalance Index = B/A =	
	0	= Total Cove	:r	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is 50%	
1.				Prevalence Index is ≤3.0 <sup>1</sup>	
				<del></del>	1-1-1
2.				Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	lain)
3.				] ]	.
4.				Indicators of hydric soil and wetland hydrology m	nust
5.	· <del></del>			be present, unless disturbed or problematic.	
6.				Definitions of Vegetation Strata:	
7.				_	
	0	= Total Cove	er	Tree- Woody plants, excluding woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or more in height and 3 in.	(7.6
1. Chara spp.	10	yes	NL	cm) or larger in diameter at breast height (DBH).	
Setaria spp.	5	yes	FAC	Sapling- Woody plants, excluding woody vines,	
Panicum repens	5	yes	FACW	approximately 20 ft (6m) or more in height and less	than 3
Cyperus spp.	2	no	FACW	in. (7.6 cm) DBH.	
5. Typha spp.	2	no	OBL	Shrub- Woody plants, excluding woody vines,	
6. Eclipta alba	2	no	FACW	approximately 3 to 20 ft (1 to 6 m) in height.	
7. Pluchea spp.	1	no	FACW	Herb- All herbaceous (non-woody)plants, including	
8.				herbaceous vines, regardless of size. Includes woo	dy
9.				plants, except woody vines, less than approximately	-
10.				m) in height.	
11.				Woody vine- All woody vines, regardless of height.	
12.				1	
112.		= Total Cove		1	
	. 21	= Total Cove	d <b>T</b>		
Woody Vine Stratum (Plot size:	)			<b>\</b>	
1.				4	
2.					
3.					
4.				Hydrophytic	
5				Vegetation Present? Yes <u>√</u> No	<del></del>
	0	= Total Cove	r		
Remarks: (If observed, list morphe	ological adapta	ations below).			
Percent cover estimates based or			roader cor	mmunity	

County/soil:	Citron	Dage

Profile Description: (Describe to the depth needed to document the indicator or conf					confirm the ab	sence of indicators.)		
epth	Matrix	·			x Features		<u>.</u> .	
nches) 7	Color (moist)	%	Color (moist)	%_	Type¹	Loc <sup>2</sup>	Texture	Remarks
	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
			10 YR 6/6; 10				few medium	
20	10 YR 6/4		YR 7/2				distinct mottles and streaks	light yellowish brown fine sand
	10 11( 0/4		111/1/2				common medium	light yellowish brown line sailu
39	10 YR 7/4		10 YR 6/6				distinct mottles	your note brown fine cond
80	10 YR 7/3		10 11 0/0				distilict motiles	very pale brown fine sand
50	10 1 1 1/3		<del></del>			<del></del>		very pale brown fine sand
	· - <del></del>							<u> </u>
	Concentration, D=Depl	etion, RM	=Reduced Matrix, (	CS=Cov	ered or Coated S	and Grains.	<sup>2</sup> Location: PL=Pore	
	oil Indicators:							Indicators for Problematic Hydric Soils 3:
_Histo				Poh	yvalue Below Su	face (\$8) (LRR	S, T, U)	1 cm Muck (a9) (LRR O)
_Histic	Epidon (A2)			Thir	n Dark Surface (	59) (LRR S, T, 1	U)	2 cm Muck (A10) (LRR S)
_Black	Histic (A3)			Loa	my Mucky Miner	al (F1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A, B
	ogen Sulfide (A4)				my Gleyed Matri			Piedmont Floodplain Soils (F19) (LRR P, S, T)
	fied Layers (A5)				oleted Matrix (F3)			Anomalous Bright Loamy Soils (F20)
_Orga	nic Bodies (A6) (LRR P	, T, U)		Rec	lox Dark Surface	(F6)	•	(MLRA 153B)
5 cm	Mucky Mineral (A7) (LI	RR P.T.U	)	Der	oleted Dark Surfa	ce (F7)		Red Parent Material (TF2)
	Presence (A8) (LRR I		•		lox Depressions	. ,	•	Very Shallow Dark Surface (TF12) (LRR T, U)
	Muck (A9) (LRR P,T)	.,			1 (F10) (LRR U)	· -/	•	Other (Explain in Remarks)
	eted Below Dark Surfac	ο /Λ11\			eleted Orchric (F	11) /MI DA 451)		
	Dark Surface (A12)	E (ATT)	•		⊩Manganese Ma		ROPTI	
	t Prairie Redox (A16) (I	41 DA 45			bric Surface (F1:			Indicators of hydrophytic vegetation and wetland
			•		•			hydrology must be present, unless disturbed or problematic.
	y Mucky Mineral (S1) (L	.RR O, S	) .		ta Orchric (F17)			problematic.
	y Gleyed Matrix (S4)				luced Vertic (F18			
_	y Redox (S5)				dmont Floodplain			
_Stripp	ed Matrix (S6)			And	malous Bright Lo	oamy Soils (F20	) (MLRA 149A, 153C	, 153D)
_Dark	Surface (S7) (LRR P, S	6, T, U)						
strictiv	e Layer (if observed):							
	Type:							
	Depth (inches):						Hydric Soil Presen	t? Yes <u>√</u> No
narks:								
								•
				•				

Project/Site: Levy Baseload Transmission Progra	City/County: Citrus Sampling Date: 11/2					
Applicant/Owner: Progress Energy Florida, Inc.	State: FL	Sampling Point: AP				
Investigator(s): Stacy Rizzo, Tony Davanzo						
Landform (hillslope, terrace, etc.):N/A	Local relief (concave, convex, none): none Slope (%):					
Subregion (LRR or MLRA): LRR U	2Long:82.68	30804	Datum:WG\$84			
Soil Map Unit Name: Boca fine sand			NWI classification			
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>✓</u>	_ No	_ (If no, explain in Remarks)		
Are Vegetation, Soil,	or Hydrology	significantly disturbed?	Are circumstances normal? Yes_ ✓ No			
		naturally problematic?	(If needed, explain	n any answers in Remarks)		
SUMMARY OF FINDINGS - Attach sit		ng point locations, t	ransects, impo	ortant features, etc.		
Hydrophytic Vegetation Present?	YesNo					
Hydric Soil Present?	YesNo	Is the Sampled Area w	ithin a Wetland?	YesNo		
Wetland Hydrology Present?	Yes No					
Remarks:						
LIVEROL COV						
HYDROLOGY						
Wetland Hydrology Indicators:				tors (minimum of two required)		
Primary Indicators (minimum of one is required; c			Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (E	39)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)			
Saturation (A3)	Marl Deposits (B15) (LR	•	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor (	C1)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres of	on Living Roots (C3)	Crayfish Burrows (C8)			
Drift Deposits (B3)	Presence of Reduced Iro	on (C4)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)Geomorphic Position (D2)				
ron Deposits (B5)	Thin Muck Surface (C7)	<del></del>				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remark	ks)	FAC Neutra	I Test (D5)		
Field Observations:						
Surface Water Present?	Yes No					
Water Table Present?	Yes No		Wetland			
Saturation Present?	Yes No	Depth (inches): 0-12	Hydrology			
(includes capillary fringe)			Present?	Yes No		
Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previous	inspections), if available:				
Remarks:						

County/soil: Citrus- Boca	-	
SOIL		Sampling Point:

SOIL	-								Sampling Point:	AP
Profile De	scription: (Describe t	to the de	pth needed to doc	ument t	he indicator or c	onfirm the ab	sence of indicators.)			
Depth	Matrix		•	Redo	x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc	Texture		Remarks	
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish bro		
							few medium			
			10 YR 6/6; 10				distinct mottles			
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish br	our fine cand	
7-20	10 TR 0/4		TR 1/2			<del></del>		light yellowish bi	OWITHIRE SAING	
l							common medium		_	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown		
39-80	10 YR 7/3							very pale brown	fine sand	
<b></b>										
Transi C=	Concentration, D=Dept	otion DM	-Dadward Matrix (	~=	arad or Contad Co	and Crains	<sup>2</sup> Location: PL=Pore	Lining Maddeise		
		ellon, Riv	=Reduced Matrix, (	-S=C0V	sted of Coated Sa	and Grains.			blooming the date Calle 3.	
	il Indicators:								blematic Hydric Soils 3:	
Histol					yvalue Below Surf			1 cm Muck (a9		
Histic	Epidon (A2)			Thir	n Dark Surface (S	9) (LRR S, T, 1	U) _	2 cm Muck (A1		
Black	Histic (A3)			Loa	my Mucky Minera	I (F1) (LRR O)		Reduced Vertice	c (F18) (outside MLRA 150A,	, B)
Hvdro	gen Sulfide (A4)			Loa	my Gleyed Matrix	(F2)	-	Piedmont Floo	dplain Soils (F19) (LRR P, S,	T)
	ied Layers (A5)				oleted Matrix (F3)	. (- –)	•		ight Loamy Soils (F20)	• •
	ic Bodies (A6) (LRR P	P. T. UI			dox Dark Surface	(F6)	-	(MLRA 153B		
I -	, , ,		_					•	•	
_	Mucky Mineral (A7) (LI		)		oleted Dark Surfac	. ,		Red Parent Ma		
Muck	Presence (A8) (LRR I	U)		Rec	dox Depressions (	F8)		Very Shallow D	Dark Surface (TF12) (LRR T, L	J)
1	Muck (A9) (LRR P.T)			Mai	d (F10) (LRR U)			Other (Explain	in Remarks)	
	. , , , , ,								tottle	
Deple	ted Below Dark Surfac	e (A11)		Dep	oleted Orchric (F1	1) (MLRA 151)	)			
Thick	Dark Surface (A12)			Iror	-Manganese Mas	ses (F12) (LR	R O, P,T)			
		MI DA 45	0.4.)		bric Surface (F13)	1/1 PP P T 11			phytic vegetation and wetland	
Coasi	Prairie Redox (A16) (I	WILKA 15	UA)				•		present, unless disturbed or	
Sandy	Mucky Mineral (S1) (L	LRR O, S	)	Del	ta Orchric (F17) (I	MLRA 151)	1	problematic.		
Sandy	Gleyed Matrix (S4)			Red	duced Vertic (F18)	(MLRA 150A	. 150B)			
<u> </u>	Redox (S5)				dmont Floodplain	•				
	• •				•	, ,,	)) (MLRA 149A, 153C,	4.E.2.D.)		
Suipp	ed Matrix (S6)				illialous bligili Lo	arriy Solis (F20	) (INILITA 143A, 133C,	1930)		
Dark S	Surface (S7) (LRR P, S	S, T, U)								
Restrictive	e Layer (If observed):									
1	Type:	-								
	Depth (inches):						Hydric Soil Present	? Yes	./ No	
	Depth (inches):						Inyuric Soil Presen	res_	No	
Remarks:										
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Project/Site: Levy Baseload Transmission Progra	m LCR	City/County: Citrus		Sampling Date:	11/2/09	
Applicant/Owner: Progress Energy Florida, Inc.	, 45.1					
Investigator(s): Stacy Rizzo, Tony Davanzo		_Section, Township, Range		–	7100	
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U						
Soil Map Unit Name: Boca and Redlevel fine sa		55E011g02.05	NWI classification:			
		Yes ✓	_ No		Pemarke)	
Are climatic / hydrologic conditions on the site typ	or Hydrology		Are circumstances		No	
Are Vegetation, Soil, Are Vegetation, Soil,						
SUMMARY OF FINDINGS - Attach sit			(If needed, explain	-	•	
Hydrophytic Vegetation Present?	Yes No		ransects, impo	rtant leatures	, etc.	
Hydric Soil Present?	YesNo	Is the Sampled Area v	vithin a Wetland?	Yes ✓ No		
			nami a vvedana.	res		
Wetland Hydrology Present? Remarks:	Yes No					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of tw	o required)	
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil			
Surface Water (A1)	Water-Stained Leaves	(B9)		retated Concave S	urface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)	()	Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15) (LF	2R III	Moss Trim Li			
Water Marks (B1)	Hydrogen Sulfide Odor	-	·	Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Buri			
Drift Deposits (B3)	Presence of Reduced I			Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction			ic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7	, ,				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	· — ·		` .		
Field Observations:	Other (Explain III Nema	ii koj		Test (Do)		
Surface Water Present?	Yes No	Donth (inches):				
	Yes No		-			
Water Table Present?	Yes No		Wetland			
Saturation Present?	100	_ Deptit (inches)0-12	Hydrology	Voc. / No.		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ing well serial photos, previous	s inspections) if available:	Present?	YesNo		
Describe Recorded Data (stream gauge, monitor	ing well, deliai photos, previou	s inspections), ii available.				
Remarks:						

VEGETATION - Use scientific nar	mes of plants				Sampling Point:	AQ
				Dominance Test Works	heet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Spe		(A)
2.				That Are OBL, FACW, or	FAC:	` ,
3. 4. 5. 6.				Total Number of Dominar	h	(B)
4.				Species Across All Strata		
6				Percent of Dominant Spe That Are OBL, FACW, or	101100	(A/B)
7.	·			Prevalance Index works		
7.	. —			+		
	0	= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species _	x1=	
Liquidambar styraciflua	20	yes	FAC	FACW species	x2=	_
Salix caroliniana	15	yes	OBL	FAC species	x3=	_
Acer rubrum	10	yes	OBL	FACU species	x4=	
4.				UPL species	x5=	
5.				Column Totals:	(A)	— (B)
6.				-		_ (_/
7.	·			Brovolanco Indox - I	D/A -	
1.		- T-1-1 O		Prevalance Index = I		
	45	= Total Cove	er	Hydrophytic Vegetation		
Shrub Stratum (Plot size:	<del></del> )			✓ Dominance Test is	s 50%	
Myrica cerifera	20	yes	FAC	Prevalence Index	is ≤3.0 <sup>1</sup>	
2.				Problematic Hydro	phytic Vegetation <sup>1</sup> (Ex	plain)
3.				]_	•	
4.				Indicators of hydric soil a		nust
5.				be present, unless disturb		
6.				Definitions of Vegetatio	n Strata:	
7.				1		
	20	= Total Cove	er	Tree- Woody plants, exclude		
Herb Stratum (Plot size:)				approximately 20 ft (6m) or		. (7.6
1. Cladium spp.	20	yes	OBL	cm) or larger in diameter a	t breast height (DBH).	
Erianthus giganteus	10	yes	FACW	Sapling- Woody plants, ex	cluding woody vines,	
<ol><li>Typha spp.</li></ol>	5	no	OBL	approximately 20 ft (6m) or	more in height and less	than 3
4.				in. (7.6 cm) DBH.		
5.				Shrub- Woody plants, excl	•	
6.	·			approximately 3 to 20 ft (1	, <del>-</del>	
7. 8.	· <del></del>			Herb- All herbaceous (non		
9.	·			herbaceous vines, regardle plants, except woody vines		
10.	· ——			m) in height.	, less than approximate	y 5 it ( i
	<del></del>			Woody vine- All woody vir	on reportions of height	
11. 12.	· <del></del>			Twoody vine- All woody vii	ies, regardiess of fielgrit	•
12.				1		
		= Total Cove	er			
Woody Vine Stratum (Plot size:						
1.				1		
2.						
3.				-		
4.			·	Hydrophytic		
5.				Vegetation Present?	Yes <u>√</u> No	<del></del>
		= Total Cove	er			
Remarks: (If observed, list morph	ological adapta	itions below).				
Percent cover estimates based or	n meandering s	survey of the b	oroader co	mmunity.		

Depth	Matrix			Redox	Features			
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
7-20	10 YR 6/4	-	10 YR 6/6; 10 YR 7/2				few medium distinct mottles and streaks	light yellowish brown fine sand
20-39	10 YR 7/4		10 YR 6/6				common medium distinct mottles	very pale brown fine sand
9-80	10 YR 7/3							very pale brown fine sand

7-20	10 YR 6/4	YR 7/2		and streaks	light yellowish brown fine sand
				common medium	
20-39	10 YR 7/4	10 YR 6/6		distinct mottles	very pale brown fine sand
39-80	10 YR 7/3				very pale brown fine sand
				·	
	<u> </u>	M=Reduced Matrix	, CS=Covered or Coated Sand Grains.	Location: PL=Po	re Lining, M=Matrix.
•	oil Indicators:				Indicators for Problematic Hydric Soils 3:
_	ol (A1)		Polyvalue Below Surface (S8) (LR		1 cm Muck (a9) (LRR O)
	c Epidon (A2)		Thin Dark Surface (S9) (LRR S, T,	,	2 cm Muck (A10) (LRR S)
	k Histic (A3)		Loamy Mucky Mineral (F1) (LRR C	))	Reduced Vertic (F18) (outside MLRA 150A, B)
	ogen Sulfide (A4)		Loamy Gleyed Matrix (F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ified Layers (A5)		Depleted Matrix (F3)		Anomalous Bright Loarny Soils (F20)
Orga	nic Bodies (A6) (LRR P, T, U)		Redox Dark Surface (F6)		(MLRA 153B)
5 cm	Mucky Mineral (A7) (LRR P,T,I	J)	Depleted Dark Surface (F7)		Red Parent Material (TF2)
Muc	k Presence (A8) (LRR U)		Redox Depressions (F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm	Muck (A9) (LRR P,T)		Marl (F10) (LRR U)		Other (Explain in Remarks)
			Depleted Orchric (F11) (MLRA 15	ı,	
·	eted Below Dark Surface (A11)		<b>—</b> · · · ·	•	
i hici	k Dark Surface (A12)		Iron-Manganese Masses (F12) (LF	(R O, P, I)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coas	st Prairie Redox (A16) (MLRA 1	50A)	Umbric Surface (F13) (LRR P, T, I	J)	hydrology must be present, unless disturbed or
Sano	ty Mucky Mineral (\$1) (LRR O, S	S)	Delta Orchric (F17) (MLRA 151)		problematic.
	ty Gleyed Matrix (S4)	-,	Reduced Vertic (F18) (MLRA 150)	A. 150B)	
	ty Redox (S5)		Piedmont Floodplain Soils (F19) (M		
	ped Matrix (S6)		Anomalous Bright Loamy Soils (F2	•	C. 153D)
			viornalisas singin assamy sens (v a	o, (m.2.01 140/1, 100	5, 1552,
	Surface (S7) (LRR P, S, T, U) ve Layer (If observed):				
Restricti	• •				
	Type:			Uhadeia Cail Deana	nt? Yes ✓ No
Remarks	Depth (inches):	<del>,</del>		Hydric Soil Prese	nt? Yes <u></u> No
Remarks	•				
			•		

County/soil: Citrus- Boca

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus	_ Sampling Date: 11/2/09			
Applicant/Owner: Progress Energy Florida, Inc.		State:FL	Sampling Po	int: AR		
Investigator(s): Stacy Rizzo, Tony Davanzo		_Section, Township, Range:	_34 17S 16E			
Landform (hillslope, terrace, etc.): N/A	·	Local relief (concave, conv	ex, none): none		Slope (%):	
Subregion (LRR or MLRA): LRR U	Lat: 28.96011	10 Long: -82.677790 Datum: WG				
Soil Map Unit Name: Boca fine sand			NWI classification	: <u>NA</u>		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>✓</u>	. No	_ (If no, explair	in Remarks)	
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstances	s normal?	YesNo	
Are Vegetation, Soil	or Hydrology	_naturally problematic?	(If needed, explain	n any answers i	n Remarks)	
SUMMARY OF FINDINGS - Attach sit	e map showing sampli	ing point locations, t	ransects, impo	ortant featu	res, etc.	
Hydrophytic Vegetation Present?	Yes/ No					
Hydric Soil Present?	YesNo	Is the Sampled Area w	ithin a Wetland?	Yes	_No	
Wetland Hydrology Present?	YesNo					
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum	of two required)	
Primary Indicators (minimum of one is required; of	heck all that apply)		Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Ve	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)		
Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim L	ines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (0	C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	urrows (C8)		
Drift Deposits (B3)	Presence of Reduced In	on (C4)Saturation Visible on A			Imagery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction i	n Tilled Soils (C6)	Geomorphic	Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	)	Shallow Aqu	itard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutra	l Test (D5)		
Field Observations:						
Surface Water Present?	Yes No	_ Depth (inches):	l			
Water Table Present?	Yes No	_ Depth (inches):				
Saturation Present?	Yes✓ No		Wetland Hydrology			
(includes capillary fringe)		- , , , ,	Present?	Yes <u></u> ✓	No	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	inspections), if available:	1			
Remarks:						
Remarks.						

VEGETATION - Use scientific na	mes of plants				Sampling Point:	AR
				Dominance Test Worksh	eet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Spec		(A)
2.	<del></del>		-	That Are OBL, FACW, or I		
3. 4.	· ——		-	Total Number of Dominan Species Across All Strata:	1	(B)
5.				Percent of Dominant Spec		
6.			-	That Are OBL, FACW, or	100 00	(A/B)
7.	<del></del>			Prevalance Index works		
1.		<del></del>		-		
	0	= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	
Fraxinus caroliniana	10	yes	OBL	FACW species	x2=	_
<ol><li>Diospyros virginiana</li></ol>	10	yes	FAC	FAC species	x3=	_
Persea palustris	10	yes	NL	FACU species	x4=	
Sabal palmetto	5	no	FAC	UPL species	x5=	_
5.				Column Totals:	(A)	— (B)
6.	<del></del>			- Column Totals.	(^)	— (B)
7.					N/A -	
1.	·	<del></del>	. ———	Prevalance Index = B		
	35	= Total Cove	er	Hydrophytic Vegetation		
Shrub Stratum (Plot size:	_)			✓ Dominance Test is	50%	
Ilex cassine	10	yes	FACW	Prevalence Index is	s ≤3.0 <sup>1</sup>	
Myrica cerifera	10	yes	FAC	Problematic Hydro	phytic Vegetation <sup>1</sup> (Ex	plain)
3.						
4.				Indicators of hydric soil a		must
5.				be present, unless disturb	ed or problematic.	
6.				Definitions of Vegetation	n Strata:	
7.						
	20	= Total Cove	er	Tree- Woody plants, exclud	ling woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or		. (7.6
Imperata cylindrica	15	yes	NL	cm) or larger in diameter at	breast height (DBH).	
<ol><li>Flaveria spp.</li></ol>	10	yes	FACW	Sapling- Woody plants, exc		
<ol><li>Cladium spp.</li></ol>	10	yes	OBL	approximately 20 ft (6m) or	more in height and les	s than 3
Erianthus spp.	10	yes	FAC	in. (7.6 cm) DBH.		
5. Lobelia spp.	5	no	OBL	Shrub- Woody plants, exclu		
6. Sagittaria spp.	5	no	OBL	approximately 3 to 20 ft (1 t	, -	
7.				Herb- All herbaceous (non-		
8.				herbaceous vines, regardle		
9.				plants, except woody vines,	iess than approximate	ıy 3 π (1
10.				m) in height.		
11.				Woody vine- All woody vine	es, regardless of heigh	t.
12.						
	55	= Total Cov	er			
Woody Vine Stratum (Plot size:	)					
1.						
2.						
3.						
4.				Hydrophytic		
5.				Vegetation Present?	YesNo	<del></del>
	0	= Total Cov	er			
Remarks: (If observed, list morph	ological adapta			•		
Percent cover estimates hased of	•	•	aroador co	mmunity		

County/soil: Citrus- Boca	
SOIL	Sampling Point:AR

Depth	Matrix			Redox Features			
(inches)	Color (moist)	%	Color (moist)	% Type¹	Loc²	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1			few fine roots	dark grayish brown fine sand
						few medium	
			10 YR 6/6; 10			distinct mottles	
7-20	10 YR 6/4		YR 7/2			and streaks	light yellowish brown fine sand
	• •			· — —		common medium	
20-39	10 YR 7/4		10 YR 6/6			distinct mottles	very pale brown fine sand
39-80	10 YR 7/3	- —	10 111 0/0	<del></del>		diotiriot motico	very pale brown fine sand
35-00	10 11( 7/3			·			very pale brown line sails
				. <del> </del>	<del>-</del>	-	
		eletion, RN	/I=Reduced Matrix,	CS=Covered or Coated	Sand Grains.	*Location: PL=Por	e Lining, M=Matrix.
	oil Indicators:						Indicators for Problematic Hydric Soils 3:
Histol	(A1)			Polyvalue Below S	Surface (S8) (LRF	₹ S, T, U)	1 cm Muck (a9) (LRR O)
Histic	Epidon (A2)			Thin Dark Surface	(S9) (LRR S, T,	U)	2 cm Muck (A10) (LRR S)
Black	Histic (A3)			Loamy Mucky Min	eral (F1) (LRR O	)	Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)			Loamy Gleved Ma		•	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	fied Layers (A5)			Depleted Matrix (F			Anomalous Bright Loamy Soils (F20)
	nic Bodies (A6) (LRR I	P. T. U)		Redox Dark Surfa			(MLRA 153B)
				Depleted Dark Su			Red Parent Material (TF2)
	Mucky Mineral (A7) (L		1)				
Muck	Presence (A8) (LRR	U)		Redox Depression	ns (F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm	Muck (A9) (LRR P,T)			Marl (F10) (LRR L	J)		Other (Explain in Remarks)
Deple	ted Below Dark Surface	ce (A11)		Depleted Orchric		•	
Thick	Dark Surface (A12)			Iron-Manganese N	/lasses (F12) (LR	R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast	t Prairie Redox (A16) (	MLRA 15	50A)	Umbric Surface (F	13) (LRR P, T, U	1)	hydrology must be present, unless disturbed or
	, , ,	•	•	Delta Orchric (F17			problematic.
	y Mucky Mineral (S1) (	LRR O, S	<b>&gt;</b> }				problematio.
	y Gleyed Matrix (S4)			Reduced Vertic (F			
	y Redox (S5)			Piedmont Floodpla		•	
Stripp	ed Matrix (S6)			Anomalous Bright	Loamy Soils (F20	0) (MLRA 149A, 1530	C, 153D)
Dark	Surface (S7) (LRR P,	S. T. U)					
	e Layer (If observed)					T	
11000110111	Type:	,,					
	Depth (inches):					Hydric Soil Preser	nt? Yes ✓ No .
Demodes	Depth (inches).		<del></del>			Invaric Soil Presei	itr res v no
Remarks:							
i							
ĺ							
į							

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus	1/2/09			
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Point:		
Investigator(s): Stacy Rizzo, Tony Davanzo		_ Section, Township, Range: <u>34 17S 16E</u>				
Landform (hillslope, terrace, etc.): N/A	1	Local relief (concave, convex, none): none Slope (%				
Subregion (LRR or MLRA): LRR U		94 Long: -82.6	80652	Datum	: <u>WGS84</u>	
Soil Map Unit Name: Boca fine sand				NA		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>√</u>	_ No	(If no, explain in Ren	narks)	
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstances	normal? Yes	<u>√</u> No	
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain	any answers in Rema	arks)	
SUMMARY OF FINDINGS - Attach sit	te map showing sampli	ing point locations, t	ransects, impo	rtant features, e	tc.	
Hydrophytic Vegetation Present?						
Hydric Soil Present?	Yes No	Is the Sampled Area w	vithin a Wetland?	Yes No	**************************************	
Wetland Hydrology Present?	Yes No					
HYDROLOGY			Sagadar Indian	ora (minimum of two	Conjuga	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; of	shook all that apply)			Oracks (RS)	equilea	
	Water-Stained Leaves (	(PQ)	· <u></u>	il Cracks (B6)		
Surface Water (A1)	Aquatic Fauna (B13)	(69)	Sparsely Vegetated Concave Surface (B8)Drainage Patterns (B10)			
High Water Table (A2)	• , ,	DD 111				
✓ Saturation (A3)	Marl Deposits (B15) (LF		Moss Trim L	, ,		
Water Marks (B1)	Hydrogen Sulfide Odor		Dry-Season Water Table (C2)Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres	• ,		• •		
Drift Deposits (B3)	Presence of Reduced In	. ,		Saturation Visible on Aerial Imagery (C9)Geomorphic Position (D2)		
Algal Mat or Crust (B4)	Recent Iron Reduction i	, ,				
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7)		Shallow Aqu			
Field Observations:	Other (Explain in Rema	iks)	FAC Neutral	Test (D5)		
Surface Water Present?	Yes No	Donth (inches):				
Water Table Present?	Yes No/		-			
	Yes No		Wetland			
Saturation Present?	103 NO	Deptir (inches). 0-12	Hydrology	Von ( No		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ing well aerial photos, previous	s inspections) if available:	Present?	Yes <u>✓ No</u>		
Data (et dati) gaage, monte	mg won, donar photos, providus	mopositorio,, il aranabio.				
Remarks:						

VEGETATION - Use scientific nar	mes of plants				Sampling Point:	AS
				Dominance Test Works	heet:	
_	Absolute %	Dominant	Indicator	1		
Tree Stratum (Plot size:)	Cover	Species?	Status	N		
1.				Number of Dominant Spe That Are OBL, FACW, or		<u>7</u> (A)
<u>2.</u> 3.	· <del></del>			Total Number of Dominar		
4.				Species Across All Strata		<u>7</u> (B)
5.	· · · · · · · · · · · · · · · · · · ·			Percent of Dominant Spe	ries	
6.				That Are OBL, FACW, or	111	<u>0.00</u> (A/B)
7.				Prevalance Index works		
		= Total Cove		Total % Cover of:	Multip	ly by:
Sapling Stratum (Plot size:	,	- 10101 0010	•	OBL species	x1=	<u>., ., .</u>
	/		OBL			<del></del>
Fraxinus caroliniana	10	yes	OBL	FACW species	x2=	<del></del>
2. Diospyros virginiana	10	yes	FAC	FAC species	x3=	
Persea palustris	10	yes	NL	FACU species	x4=	
Sabal palmetto	5	no	FAC	UPL species	x5=	
5.				Column Totals:	(A)	(B)
6.						
7.				Prevalance Index =	B/A =	
	35	= Total Cove	er	Hydrophytic Vegetation	Indicators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test i	s 50%	
Ilex cassine	<sup>,</sup> 10	yes	FACW	Prevalence Index		
Myrica cerifera	10	yes	FAC	Problematic Hydro		n <sup>1</sup> (Evolain)
3.		<u>yes</u>	TAC	1 Toblematic Hydro	opriyiic vegetation	ii (Cxpiaiii)
4.				<sup>1</sup> Indicators of hydric soil a	and wetland hydro	ology must
5.				be present, unless distur	•	••
6.				Definitions of Vegetation	n Strata:	
7.				1		
	20	= Total Cove	er	Tree- Woody plants, exclu	ding woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6m) o	r more in height ar	nd 3 in. (7.6
Imperata cylindrica	15	yes	NL	cm) or larger in diameter a	nt breast height (DI	BH).
2. Flaveria spp.	10	yes	FACW	Sapling- Woody plants, ex	xcluding woody vin	nes,
<ol><li>Cladium spp.</li></ol>	10	yes	OBL	approximately 20 ft (6m) o	r more in height ar	nd less than 3
Erianthus spp.	10	yes	FAC	in. (7.6 cm) DBH.		
5. Lobelia spp.	5	no	OBL	Shrub- Woody plants, exc	•	s,
6. Sagittaria spp. 7.	5	no	OBL	approximately 3 to 20 ft (1	, -	
8.	· ——			Herb- All herbaceous (nor herbaceous vines, regardle	• • • • • • • • • • • • • • • • • • • •	•
9.	· ———			plants, except woody vines		
10.				m) in height.	-,	
11.	. ———			Woody vine- All woody vii	nes, regardless of	height.
12.	· ——			1 1	, 0	ŭ
	55	= Total Cove	r	1		
Woody Vine Stratum (Plot size:		, otal oove	•			
1.						
2.				1		
3.	·			1		
4.				Hydrophytic		
5.				Vegetation Present?	Yes <u></u> ✓	No
		= Total Cove		1		
Remarks: (If observed, list morph-	ological adapta	tions below).		· L		
Percent cover estimates based or		· ·	roader cor	mmunity.		

Count	de oil:	Citrus-	Roca
Count	//SOII:	Citrus-	Boca

SOIL								Sampling Point: AS
	scription: (Describe	to the de	pth needed to doc	ument tl	ne indicator or	confirm the ab	sence of indicators.)	1
Depth	Matrix			Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc <sup>2</sup>	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	
			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
<del></del>							common medium	-3,
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3		10 110 0/0				distilled	very pale brown fine sand
39-80	10 TK 1/3							very pale brown line sand
<u> </u>								
L								
	Concentration, D=Dep	etion, RN	1=Reduced Matrix, C	CS=Cove	red or Coated S	and Grains.	<sup>2</sup> Location: PL=Pore	
Hydric So	il Indicators:							Indicators for Problematic Hydric Soils 3:
Histol	(A1)		_	Poly	value Below Sur	face (S8) (LRR	S, T, U)	1 cm Muck (a9) (LRR O)
Histic	Epidon (A2)			Thin	Dark Surface (S	9) (LRR S. T.	U)	2 cm Muck (A10) (LRR S)
_	Histic (A3)		•		ny Mucky Minera			Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)		•		ny Gleyed Matri		•	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)		•		leted Matrix (F3)		•	
	ic Bodies (A6) (LRR F	T 11)	•		ox Dark Surface			Anomalous Bright Loamy Soils (F20)
			•	_		• /		(MLRA 153B)
5 cm	Mucky Mineral (A7) (L.	RR P,T,U	) .	Dер	leted Dark Surfa	ce (F7)		Red Parent Material (TF2)
_ ✓ Muck	Presence (A8) (LRR	J)		Red	ox Depressions	(F8)	_	Very Shallow Dark Surface (TF12) (LRR T, U)
1 000	Muck (A9) (LRR P,T)	•	•	Mark	(F10) (LRR U)		•	Other (Explain in Remarks)
			•				-	Otter (Explain in Nemarks)
Deple	ted Below Dark Surfac	e (A11)		Dep	leted Orchric (F1	1) (MLRA 151)	)	
Thick	Dark Surface (A12)			Iron-	Manganese Ma:	sses (F12) (LR	R O, P,T)	
	, ,			_	oric Surface (F13			Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (	WILKA 15	OUA) .		and Sunace (Fire	) (LKK F, 1, U		hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (I	RR O, S		Delt	a Orchric (F17) (	MLRA 151)	ı	problematic.
	Gleyed Matrix (S4)		•	Red	uced Vertic (F18	) (MLRA 150A	. 150B)	
	Redox (S5)				lmont Floodplain			
	ed Matrix (S6)		•	_		, ,,	) (MLRA 149A, 153C,	153D)
J	, ,		•		maious bright co	Jamy Sons (F20	/) (MERA 145A, 1550,	, 1990)
Dark	Surface (S7) (LRR P,	S, T, U)						
Restrictiv	e Layer (If observed)	:						
	Type:							
l	Depth (inches):						Hydric Soil Present	t? Yes _ ✓ No
Remarks:								
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Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date:	11/3/09		
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Point:	AT		
Investigator(s): Stacy Rizzo, Tony Davanzo		_Section, Township, Range	34 17S 16E				
Landform (hillslope, terrace, etc.):N/A	·	Local relief (concave, conv	ex, none): none	Slop	e (%):		
Subregion (LRR or MLRA): LRR U	Lat: 28.96084	5Long:82.67	Long: <u>-82.671111</u> Datum: _				
Soil Map Unit Name: Boca fine sand			NWI classification:				
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u></u> ✓	_ No	(If no, explain in Re	emarks)		
Are Vegetation, Soil,	or Hydrology		Are circumstances		No		
Are Vegetation, Soil,			(If needed, explain	any answers in Rer	marks)		
SUMMARY OF FINDINGS - Attach sit			ransects, impo	rtant features,	etc.		
Hydrophytic Vegetation Present?	YesNo						
Hydric Soil Present?	Yes No	Is the Sampled Area w	Is the Sampled Area within a Wetland? Yes No				
Wetland Hydrology Present?	Yes/_No						
Remarks:		•					
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two	required)		
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)	Water-Stained Leaves (	B9)	Sparsely Veg	getated Concave Su	rface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15) (LR	RR U)	Moss Trim Li	ines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)		Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Buri				
Drift Deposits (B3)	Presence of Reduced In	on (C4)	Saturation Vi	sible on Aerial Imag	jery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction is	• •	· <del></del>	Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	· · · — · ·		, ,			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remai			Test (D5)			
Field Observations:				<del></del>			
Surface Water Present?	Yes No	Depth (inches):					
Water Table Present?	Yes No		}				
Saturation Present?	Yes No		Wetland				
	140	_ Deptil (iliches)	Hydrology	V / N-			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ing well serial photos previous	inspections) if available:	Present?	Yes No _	<del></del>		
Describe Nescrata Sata (circum gauge, monitor	ing well, deliai priotos, previodo	mspections), il available.					
	·						
Remarks:							
					;		
1							

VEGETATION - Use scientific nar	nes of plants				Sampling Point:	AT
				Dominance Test Works	heet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Spe		(A)
<b>2</b> . <b>3</b> .				That Are OBL, FACW, or		
3. 4.			·	Total Number of Dominar Species Across All Strata	1.4	(B)
5.				Percent of Dominant Spe		
6.				That Are OBL, FACW, or	111111111	(A/B)
7.			-	Prevalance Index works	•	
				1		
	, 0	= Total Cov	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species _	x1=	
Liquidambar styraciflua	25	yes	FAC	FACW species	x2=	_
Acer rubrum	20	yes	OBL	FAC species _	x3=	
<ol><li>Carpinus caroliniana</li></ol>	20	yes	FAC	FACU species	x4=	
4. Sabal palmetto	20	yes	FAC	UPL species	x5=	
5. Ulmus americana	20	yes	FACW	Column Totals:	(A)	— (B)
Quercus laurifolia	20	yes	FACW	1 -		—` ´ ;
7. Diospyros virginiana	15	no	FAC	Prevalance Index = I	B/A =	
	140	= Total Cov		Hydrophytic Vegetation		
Shrub Stratum (Plot size:	1			✓ Dominance Test is		
Baccharis sp.	_/ 5	V00	FAC	Prevalence Index		
2.		yes	FAC	<del> </del>		
3.				Problematic Hydro	phytic Vegetation <sup>1</sup> (E	xpiain)
4,				Indicators of hydric soil a	and watland hydrology	must
5.				be present, unless disturt		iliust
6.				Definitions of Vegetatio		
7.	<del></del>	•		Tomminono or regoration	otrutu.	
		= Total Cov	er	Tree- Woody plants, exclud	dina woody vinos	
Herb Stratum (Plot size:)	Ü	rotal cov	<b>.</b> ,	approximately 20 ft (6m) or	•	n. (7.6
Flaveria spp.	10	yes	FACW	cm) or larger in diameter a		(
Andropogon virginicus	10	yes	FAC	Sapling- Woody plants, ex	cluding woody vines	
Andropogon glomeratus	10	yes	FACW	approximately 20 ft (6m) or	•	s than 3
4. Centella asiatica	10	yes	FACW	in. (7.6 cm) DBH.	· ·	
5. Erianthus spp.	10	yes	FAC	Shrub- Woody plants, excl	luding woody vines,	
<ol><li>Thelypteris spp.</li></ol>	5	no	FACW	approximately 3 to 20 ft (1	to 6 m) in height.	
7. Lobelia spp.	5	no	OBL	Herb- All herbaceous (non		
8. Rhynchospora colorata	5	no	OBL	herbaceous vines, regardle		,
9. Cladium spp.	5	no	OBL	plants, except woody vines m) in height.	, less than approximate	ely 3 ft (1
10.			. ———	4 ′		
11.				Woody vine- All woody vin	ies, regardless of heigr	it.
12.				1		
	70	= Total Cov	er			
Woody Vine Stratum (Plot size:						
1. Vitus rotundifolia	2	yes	FAC			
2.						
3. 4.			-	1		
5.				Hydrophytic	Vac / N-	
J.				Vegetation Present?	Yes <u>√</u> No_	<del></del>
Demorks (If above and Estar and	2	= Total Cov	er	<u> </u>		
Remarks: (If observed, list morpho		•				
Percent cover estimates based or	ı meandering s	survey of the b	oroader cor	mmunity.		

County/soil: Citrus- Boca	

SOIL								Sampling Point:
Profile De	scription: (Describe	to the de	pth needed to doo	ument the	indicator or co	onfirm the ab	sence of indicators.)	
Depth	Matrix			Redox	Features			
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
)-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
		- —		—			few medium	
			10 YR 6/6; 10				distinct mottles	
7 20	10 VD 6/4							light vallourish brown fine sand
7-20	10 YR 6/4		YR 7/2	,			and streaks	light yellowish brown fine sand
							common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
-		- —						
		- —					<del></del>	
		- —		<del></del> .				
						<del></del>		
	Concentration, D=Dep	letion, RM	=Reduced Matrix,	CS=Covere	ed or Coated Sar	nd Grains.	<sup>2</sup> Location: PL=Pore	
Hydric So	il Indicators:						lr lr	ndicators for Problematic Hydric Soils <sup>3</sup> :
Histol	(A1)			Polyv	alue Below Surfa	ace (S8) (LRR	(S, T, U)	1 cm Muck (a9) (LRR O)
	Epidon (A2)				Dark Surface (S9			2 cm Muck (A10) (LRR S)
	Histic (A3)				ny Mucky Mineral			Reduced Vertic (F18) (outside MLRA 150A, B)
							-	
	gen Sulfide (A4)				y Gleyed Matrix	(F2)	-	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)				eted Matrix (F3)		_	Anomalous Bright Loamy Soils (F20)
Organ	ic Bodies (A6) (LRR F	P, T, U)		Redo:	x Dark Surface (	,F6)		(MLRA 153B)
5 cm l	Mucky Mineral (A7) (L.	DDDTII	١	Deple	eted Dark Surface	:e (F7)		Red Parent Material (TF2)
			,				-	
M⊓CK	Presence (A8) (LRR	U)		Keau	x Depressions (F	-8)	-	Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm l	Muck (A9) (LRR P,T)			Marl (	(F10) (LRR U)		_	Other (Explain in Remarks)
Deple	ted Below Dark Surfac	ce (A11)		Depie	eted Orchric (F11	i) (MLRA 151)	)	
Thick	Dark Surface (A12)			Iron-N	Manganese Mass	ses (F12) (LRF	R O. P.T) 3.	and the state of the second section and section
i :					-			Indicators of hydrophytic vegetation and wetland
Coast Prairie Redox (A16) (MLRA 150A)			0A)	UIIIVII	ric Surface (F13)	(LKK P, 1, 0,		ydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (	IL RR O. S	١	Delta	Orchric (F17) (N	JLRA 151)	p	roblematic.
		Line	,	_			450D)	
	Gleyed Matrix (S4)				ced Vertic (F18)			
	Redox (S5)			_	nont Floodplain S	. , .	•	
Stripp	ed Matrix (S6)			Anom	alous Bright Loa	amy Soils (F20)	)) (MLRA 149A, 153C,	153D)
Dark	Surface (S7) (LRR P,	C T III						
							т	
	e Layer (If observed)	):						
	Type:	<del> </del>						
	Depth (inches):						Hydric Soil Present	? Yes No
Remarks:							<del></del>	
ĺ								
					-			
: :								

Project/Site: Levy Baseload Transmission Progra	am, LCR	City/County: Citrus		Sampling Date:	11/5/09		
Applicant/Owner: Progress Energy Florida, Inc.		State: FL	State: FL Sampling Point: AU				
		Section, Township, Range: <u>34 17S 16E</u>					
Landform (hillslope, terrace, etc.): N/A	4	Local relief (concave, convex, none): none Slope (%):					
		9567 Long: <u>-82.671469</u> Datum: <u>WGS84</u>					
Soil Map Unit Name: Boca fine sand		·		: NA			
Are climatic / hydrologic conditions on the site tyr	oical for this time of year?	Yes _ ✓	_ No	(If no explain in F	Remarks)		
	or Hydrology		Are circumstances		sNo		
	or Hydrology			n any answers in Re			
SUMMARY OF FINDINGS - Attach si			•	-			
Hydrophytic Vegetation Present?	Yes	,			,		
Hydric Soil Present?	YesNo	Is the Sampled Area w	a within a Wetland? Yes✓No				
Wetland Hydrology Present?	Yes✓No						
Remarks:		<del></del>					
-							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of tw	o required)		
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks (B6)					
Surface Water (A1)	Water-Stained Leaves	(B9)		getated Concave S	urface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)	<b>\</b> /	Drainage Patterns (B10)				
Saturation (A3)	Marl Deposits (B15) (LI	RR III	Moss Trim Lines (B16)				
Water Marks (B1)	Hydrogen Sulfide Odor			Water Table (C2)			
` ′	· · ·						
Sediment Deposits (B2)	Oxidized Rhizospheres	*	Crayfish Burrows (C8)Saturation Visible on Aerial Imagery (C				
Drift Deposits (B3)	Presence of Reduced I	• •		igery (C9)			
Algal Mat or Crust (B4)	Recent Iron Reduction	• •	Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7	· · · · · · · · · · · · · · · · · · ·					
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	FAC Neutral	l Test (D5)			
Field Observations:							
Surface Water Present?	Yes No		-				
Water Table Present?	Yes No		Wetland				
Saturation Present?	Yes No	_ Depth (inches): 0-12	Hydrology				
(includes capillary fringe)			Present?	Yes <u>✓ No</u>			
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previou	s inspections), if available:					
Remarks:							
	1						
	)						

VEGETATION - Use scientific nar	mes of plants			Sa	ampling Point:	AU
				Dominance Test Workshee	et:	
	Absolute %	Dominant	Indicator	}		
Tree Stratum (Plot size:)	_ Cover	Species?	Status			
1.			. ——	Number of Dominant Specie	X	(A)
2.				That Are OBL, FACW, or FA	.C: –	` '
3.	- ——			Total Number of Dominant	<u>9</u>	(B)
4.				Species Across All Strata:	_	
5.				Percent of Dominant Species	88 89	(A/B)
6.	· <del></del>			That Are OBL, FACW, or FA		
7.				Prevalance Index workshe	et:	
	0	= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	
Salix caroliniana	5	yes	OBL	FACW species	x2=	_
2.				FAC species	x3=	_
3.	. — —			FACU species	x4=	-
4.	·			UPL species	<del></del>	-
			. ——	<del>-</del>	x5=	- <u>-</u>
5.			,	Column Totals:	(A)	_ <sup>(B)</sup>
6.				1		
7.				Prevalance Index = B/A	, =	
	5	= Total Cove	er	Hydrophytic Vegetation Inc	dicators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is 50		
Ilex cassine		ves	FACW	Prevalence Index is ≤		
		yes	FACVV			. ( )
2. 3.			,	Problematic Hydrophy	ytic vegetation (⊏x	olain)
<u>4.</u>	- ——			Indicators of hydric soil and	···stland hydrology n	~at
5.				be present, unless disturbed		nusi
6.			. ———	<u> </u>	<del>'</del>	
6. 7.				Definitions of Vegetation S	irata:	
7.		T 1-1-0		4		
	э	= Total Cove	er	Tree- Woody plants, excluding	•	/7 C
Herb Stratum (Plot size:)			_	approximately 20 ft (6m) or mo cm) or larger in diameter at br		. (7.6
1. Erianthus spp.	15	yes	FAC	4		
Muhlenbergia spp.	15	yes	FAC	Sapling- Woody plants, exclu		0
3. Hyptis alata	10	yes	OBL	approximately 20 ft (6m) or me	ore in height and less	than 3
4. Cladium spp.	10	yes	OBL	in. (7.6 cm) DBH.		
<ol> <li>Andropogon spp.</li> <li>Solidago spp.</li> </ol>	10	yes	FACU FACU	Shrub- Woody plants, excludi approximately 3 to 20 ft (1 to 6		
	10	yes	FACW	<del>-1</del> '''		
Eryngium spp.     Eupatorium mikanioides	5	yes no	FACW	Herb- All herbaceous (non-wo herbaceous vines, regardless		
Tripsacum sp.	- <del></del> 5	no	FAC	plants, except woody vines, le		
10.			, 170	m) in height.	oo trair approximate.,	y = 1
11.			. ———	Woody vine- All woody vines,	regardless of height	
12.	•		· <del></del>	1	regardless of freight.	
12.	- ———	- T-1-1 C		4		
	90	= Total Cove	er			
Woody Vine Stratum (Plot size:	)					
1.						
2.	- ——			1		
3. 4.	• ———			4		
			. ——	Hydrophytic		
5.				Vegetation Present?	∕es <u> </u>	
	. 0	= Total Cove	er			
Remarks: (If observed, list morphe	ological adapta	ations below).				
Percent cover estimates based or	n meandering s	survey of the h	oroader cor	mmunity.		

SOIL								Sampling Point:		
	escription: (Describe	to the de	pth needed to doc			confirm the al	osence of indicators	i.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	%	Features Type <sup>1</sup>	Loc²	Texture	Remarks		
0-7	10 YR 4/2		10 YR 3/1	-70	Турс		few fine roots	dark grayish brown fine sand		
			10 11( 0/1				few medium	dan grayish brown line sand		
			10 YR 6/6; 10				distinct mottles			
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand		
							common medium			
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand		
39-80	10 YR 7/3			_				very pale brown fine sand		
	·						. <del></del>			
Timoi Ca	Concentration, D=Depl	lation DA	4-Dadward Markin	° <del></del>	ad as Castad S	Sand Crains	ZI anation: DI =D=	ore Lining, M=Matrix.		
	oil Indicators:	ellon, Ki	n=Reduced Matrix,	55=Cover	ed or Coated 3	Sand Grains.	Location: PL=PC	Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histol				Polyv	alue Below Su	rface (S8) (LRI	R S. T. U)	1 cm Muck (a9) (LRR O)		
	Epidon (A2)					S9) (LRR S, T,		2 cm Muck (A10) (LRR S)		
	Histic (A3)				•	al (F1) (LRR O	•	Reduced Vertic (F18) (outside MLRA 150A, B)		
Hydro	gen Sulfide (A4)			Loan	y Gleyed Matr	ix (F2)	•	Piedmont Floodplain Soils (F19) (LRR P, S, T)		
				eted Matrix (F3			Anomalous Bright Loamy Soils (F20)			
Orgar	nic Bodies (A6) (LRR F	P, T, U)		Redo	x Dark Surface	e (F6)		(MLRA 153B)		
5 cm	Mucky Mineral (A7) (LI	RR P,T,L	J)	Deple	eted Dark Surfa	ace (F7)		Red Parent Material (TF2)		
Muck	Presence (A8) (LRR I	U)		Redo	x Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)		
1 cm	Muck (A9) (LRR P,T)			Мал	(F10) (LRR U)			Other (Explain in Remarks)		
Denle	ted Below Dark Surfac	e (Δ11)		Deple	eted Orchric (F	11) (MLRA 151	n.			
	Dark Surface (A12)	~ (/\\\)			,	isses (F12) (LF	•	•		
	, ,				_	3) (LRR P, T, L	•	<sup>3</sup> Indicators of hydrophytic vegetation and wetland		
	t Prairie Redox (A16) (		•	_	•		"	hydrology must be present, unless disturbed or		
	y Mucky Mineral (S1) (I	LRR O, S	<b>5)</b>		Orchric (F17)	•		problematic.		
	y Gleyed Matrix (S4)				,	B) (MLRA 150A				
	y Redox (S5)				•	n Soils (F19) (N	•	C 452D)		
	ed Matrix (S6)			Anon	iaious Bright L	oamy Solis (F2	0) (MLRA 149A, 153	C, 153D)		
	Surface (S7) (LRR P,	· · · · · · · · · · · · · · · · · · ·								
Restrictiv	e Layer (If observed)	:								
	Type: Depth (inches):						Hydric Soil Prese	ent? Yes ✓ No .		
							I HVORIC SOIL PRESE			

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		Sampling Date:11/4/09		
Applicant/Owner: Progress Energy Florida, Inc.		State: FŁ Sampling			AV	
Investigator(s): Stacy Rizzo, Tony Davanzo		Section, Township, Range: 34 17S 16E				
Landform (hillslope, terrace, etc.):N/A	<u> </u>	Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U	Lat: 28.98120	202 Long: -82.672224 Datum: WGS84				
Soil Map Unit Name: Boca fine sand				NA		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes	. No	(If no, explain in Re	emarks)	
Are Vegetation, Soil,	or Hydrology		Are circumstances		✓_No	
Are Vegetation, Soil,			(If needed, explain	any answers in Rer	narks)	
<b>SUMMARY OF FINDINGS - Attach sit</b>	te map showing sampli	ing point locations, t	ansects, impo	rtant features,	etc.	
Hydrophytic Vegetation Present?	Yes✓No					
Hydric Soil Present?	YesNo	Is the Sampled Area w	ithin a Wetland?	Yes/_No_		
Wetland Hydrology Present?	Yes No	]				
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	Secondary Indicate	ors (minimum of two	required)	
Primary Indicators (minimum of one is required; of	heck all that apply)	Surface Soil Cracks (B6)				
Surface Water (A1)	Water-Stained Leaves (	(B9)		getated Concave Su	rface (R8)	
High Water Table (A2)	Aquatic Fauna (B13)	(83)	Oparacry Vog	-	nace (Bb)	
✓ Saturation (A3)	Marl Deposits (B15) (LF	DD 111	Moss Trim Li	, ,		
<u> </u>	Hydrogen Sulfide Odor	•		• •		
Water Marks (B1)	· ·	` '	Crayfish Burn	Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres		<del></del> -	• •	on (C0)	
Drift Deposits (B3)	Presence of Reduced Ir			isible on Aerial Imag	ery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction i	, ,		Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)FAC Neutral Test (D5)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	iksj	FAC Neditar	Test (D5)		
Field Observations:	v No /	Doub (in the state)				
Surface Water Present?	YesNo					
Water Table Present?	Yes No		Wetland			
Saturation Present?	Yes No	Depth (inches): 0-12	Hydrology			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ina mall posial abotas provious	inenestions) if eveilables	Present?	Yes <u>✓ No</u>		
Describe Recorded Data (stream gauge, monitor	ing well, aerial priotos, previous	s inspections), if available.				
Remarks:						

VEGETATION - Use scientific nar	mes of plants				Sampling Point:	AV
				Dominance Test Works	heet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Spe	cies 3	(A)
2.				That Are OBL, FACW, or	FAC:	(^)
3.				Total Number of Dominar	nt <u>3</u>	(B)
4.				Species Across All Strata	: ₹	(5)
5.				Percent of Dominant Spe	11111111	(A/B)
6.				That Are OBL, FACW, or	FAC:	(/
7.				Prevalance Index works	heet:	
	0	= Total Cove	 er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	
Salix caroliniana		1100	OBL	_ · _		
	30	yes	OBL	FACW species	x2=	_
Quercus virginiana	5	no	FACU	FAC species _	x3=	_
Persea palustris	5	no	NL	FACU species _	x4=	
4.				UPL species _	x5=	_
5.				Column Totals:	(A)	(B)
6.			-	1 -	· · · · · · · · · · · · · · · · · · ·	_` ´
7.			-	Prevalance Index = I	D/A -	
		- Tatal Carr				
	40	= Total Cove	21	Hydrophytic Vegetation		
Shrub Stratum (Plot size:	_)			✓ Dominance Test is	s 50%	
Cephalanthus occidentalis	5	yes	OBL	Prevalence Index	is ≤3.0 <sup>1</sup>	
2.				Problematic Hydro	phytic Vegetation <sup>1</sup> (Exp	olain)
3.						,
4.				]¹Indicators of hydric soil a	ind wetland hydrology r	nust
5.				be present, unless disturt		
6.				Definitions of Vegetatio	n Strata:	
7.				1		
	5	= Total Cove	er	Tree- Woody plants, exclud	ding woody vines	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or		(7.6
1. Erianthus spp.	40	yes	FAC	cm) or larger in diameter a		`
Andropogon glomeratus	5	no	FACW	Sapling- Woody plants, ex	cluding woody vines	
Pluchea spp.	5	no	FACW	approximately 20 ft (6m) or		than 3
4.				in. (7.6 cm) DBH.	<b>3</b>	
5.	<del></del>			Shrub- Woody plants, excl	luding woody vines.	
6.				approximately 3 to 20 ft (1	•	
7.				Herb- All herbaceous (non	-woody)plants, including	
8.				herbaceous vines, regardle	• • • • • •	
9.				plants, except woody vines	, less than approximately	y 3 ft (1
10.				m) in height.		
11.		**		Woody vine- All woody vir	es, regardless of height.	
12.				1		
	50	= Total Cove	er	1		
Woody Vine Stratum (Plot size:	)					
1.					·	
2.				†		
3.						
4.				Hydrophytic		
5.				Vegetation Present?	Yes No	
<u> </u>		- Total Car		Trogetation Flesent?	.03	<del></del>
Demonstra (Marka	0	= Total Cove	er			
Remarks: (If observed, list morpho						
Percent cover estimates based on	n meandering s	urvey of the b	roader cor	mmunity.		

	cription: (Describe t	o the de	pth needed to doc			confirm the at	sence of indicator	s.)		
epth	Matrix				Features					
nches) -7	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc²	Texture	Remarks		
-/	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand		
			40 V/D 6/6: 40				few medium			
20	10 YR 6/4		10 YR 6/6; 10 YR 7/2				distinct mottles	Balak callactal basses Consum A		
	10 11 0/4		TK IIZ			· <del></del>	and streaks	light yellowish brown fine sand		
-39	10 YR 7/4		10 YR 6/6				common medium distinct mottles	very pale brown fine sand		
-80	10 YR 7/3						district methes	very pale brown fine sand		
						· <del></del>		very pare brown line saile		
						·				
/pe: C=C	oncentration, D=Deple	etion, RM	=Reduced Matrix, (	S=Cove	ed or Coated	Sand Grains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.		
dric Soil	Indicators:							Indicators for Problematic Hydric Soils 3:		
_Histol (	•			Poly	ratue Betow Su	rface (S8) (LRF	≀S, T, U)	1 cm Muck (a9) (LRR O)		
	pidon (A2)					S9) (LRR S, T,		2 cm Muck (A10) (LRR S)		
	listic (A3)					ral (F1) (LRR O	)	Reduced Vertic (F18) (outside MLRA 150A, B)		
	en Sulfide (A4)				y Gleyed Matr			Piedmont Floodplain Soils (F19) (LRR P, S, T)		
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)				eted Matrix (F3 x Dark Surface			Anomalous Bright Loamy Soils (F20)			
							(MLRA 153B)			
				eted Dark Surf	` ,		Red Parent Material (TF2)			
✓ Muck Presence (A8) (LRR U)		Redo	x Depressions	i (F8)		Very Shallow Dark Surface (TF12) (LRR T, U)				
_1 cm M	luck (A9) (LRR P,T)			Marl	(F10) (LRR U)	l		Other (Explain in Remarks)		
Deplete	ed Below Dark Surface	e (A11)		Deple	eted Orchric (F	11) (MLRA 151	)			
Thick D	ark Surface (A12)			Iron-	Manganese Ma	asses (F12) (LR	R O, P,T)	3Indicators of hydrophytic constation and continue		
Coast F	Prairie Redox (A16) (N	#I DA 15	00)	 Llmh	ric Surface (F1	3) (LRR P, T, U	1	<sup>3</sup> Indicators of hydrophytic vegetation and wetland		
_					•		,	hydrology must be present, unless disturbed or problematic.		
	Mucky Mineral (S1) (L	.KK O, S	)		Orchric (F17)			problematic.		
_ ′	Gleyed Matrix (S4)		•		•	8) (MLRA 150A				
	Redox (S5)				•	n Soils (F19) (M	,	0.4500)		
	d Matrix (S6)			Arion	iaious Brigni L	oamy Soils (F20	)) (MLRA 149A, 153	C, 153D)		
	urface (S7) (LRR P, S									
	Layer (If observed):									
	ype:						l			
Depth (inches):							Hydric Soil Prese	ent? Yes ✓ No .		

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus Sampling Date: 11/5/				
Applicant/Owner: Progress Energy Florida, Inc.		State: FL Sampling Point: AW				
Investigator(s): Stacy Rizzo, Tony Davanzo		Section, Township, Range				
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U						
Soil Map Unit Name: Boca fine sand			NWI classification	: NA		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes✓_	_ No	_ (If no, explain in Remarks)		
Are Vegetation, Soil,	<u>.</u>					
	or Hydrology		(If needed, explain	n any answers in Remarks)		
SUMMARY OF FINDINGS - Attach sit			•			
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	ric Soil Present? Yes No			YesNo		
Wetland Hydrology Present?	YesNo					
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required				
Primary Indicators (minimum of one is required; o			Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves	(B9)		getated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	` ,		
Saturation (A3)	Marl Deposits (B15) (L	•	Moss Trim L	, ,		
Water Marks (B1)	Hydrogen Sulfide Odor			Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur			
Drift Deposits (B3)	Presence of Reduced I					
Algal Mat or Crust (B4)	Recent Iron Reduction	in Tilled Soils (C6)	: Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7	<b>'</b> )	uitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	FAC Neutral	l Test (D5)		
Field Observations:						
Surface Water Present?	Yes No		.			
Water Table Present?	Yes No	Depth (inches):	- Wetland			
Saturation Present?	Yes No	Depth (inches):0-12	Hydrology			
(includes capillary fringe)			Present?	Yes _/No		
Describe Recorded Data (stream gauge, monitor	ng well, aerial photos, previou	s inspections), if available:				
Remarks:						
·						
d)						

VEGETATION - Use scientific nar	mes of plants		Sampling Point:			
				Dominance Test Worksheet:		
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Species	<u>3</u>	(A)
2.				That Are OBL, FACW, or FAC:	_	`´
3. 4.				Total Number of Dominant Species Across All Strata:	<u>3</u>	(B)
5.				Percent of Dominant Species		
6.				That Are OBL, FACW, or FAC:	<u>100.00</u>	(A/B)
7.	. ——			Prevalance Index worksheet:		
		= Total Cove		1	B. C. oltimbre been	
Sanling Stratum (Diet sine)	,	- Total Cove	:1	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)				x1=	-
Salix caroliniana	40	yes	OBL	<del></del>	x2=	-
Acer rubrum	15	yes	OBL		x3=	
Sabal palmetto	15	yes	FAC	<del></del>	x4=	_
Persea palustris	15	yes	NL	UPL species	x5=	_
<ol><li>Quercus laurifolia</li></ol>	10	no	FACW	Column Totals:	(A)	_(B)
6.						
7				Prevalance Index = B/A =		
	95	= Total Cove	er	Hydrophytic Vegetation Indica	itors:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is 50%		
1	<del>,</del> /			Prevalence Index is ≤3.0	1	
2.				Problematic Hydrophytic		lain)
3.			-	r Toblematic Hydrophytic	vegetation (Exp	iaiii)
4.				<sup>1</sup> Indicators of hydric soil and wel	tland hydrology m	nust
5.				be present, unless disturbed or		
6.				Definitions of Vegetation Strat	ta:	
7.		-		1		
,	0	= Total Cove	er	Tree- Woody plants, excluding wo	odv vines.	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or more i		(7.6
1.				cm) or larger in diameter at breast	t height (DBH).	
2.				Sapling- Woody plants, excluding	woody vines,	
3.				approximately 20 ft (6m) or more i	n height and less	than 3
4.				in. (7.6 cm) DBH.		
5. 6.				Shrub- Woody plants, excluding value of the second of the	-	
7.				<b>+</b> ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	-	
8.	<del></del>			Herb- All herbaceous (non-woody herbaceous vines, regardless of s		<sub>dv</sub>
9.				plants, except woody vines, less the		′ 1
10.				m) in height.		
11.		-		Woody vine- All woody vines, reg	ardless of height.	
12.				1		
	0	= Total Cove	er	]		
Woody Vine Stratum (Plot size:	)					
1.						
2.						
3.						
4.				Hydrophytic		
5.				Vegetation Present? Yes	No	<u> </u>
	0	= Total Cove	er			
Remarks: (If observed, list morpho	ological adapta	tions below).				
Percent cover estimates based or	n meandering s	urvey of the b	roader cor	mmunity.		

SOIL								Sampling Point:A
Profile D	Description: (Describe	to the d	epth needed to doo	ument the	indicator or	confirm the al	sence of indicators	.)
Depth	pth Matrix			Redox	Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	
			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
							common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
<sup>1</sup> Type: C	=Concentration, D=Depl	letion, Ri	M=Reduced Matrix,	CS=Cover	ed or Coated S	and Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix.
	Soil Indicators:							Indicators for Problematic Hydric Soils 3:
	ol (A1)					rface (S8) (LRF		1 cm Muck (a9) (LRR O)
_	ic Epidon (A2)					89) <b>(LRR S, T,</b>		2 cm Muck (A10) (LRR S)
	k Histic (A3)					al (F1) (LRR O	)	Reduced Vertic (F18) (outside MLRA 150A, B)
	rogen Sulfide (A4)				y Gleyed Matri			Piedmont Floodplain Soils (F19) (LRR P, S, T)
	tified Layers (A5)				ted Matrix (F3)			Anomalous Bright Loamy Soils (F20)
Orga	anic Bodies (A6) (LRR F	٠, ١, ١)			x Dark Surface	. ,		(MLRA 153B)
5 cn	n Mucky Mineral (A7) (Li	RR P,T,I	J)	Deple	ted Dark Surfa	ice (F7)		Red Parent Material (TF2)
<u> ✓</u> Muc	ck Presence (A8) (LRR	U)		Redo	x Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
1 cn	n Muck (A9) (LRR P,T)			Marl (	F10) (LRR U)			Other (Explain in Remarks)
Dep	leted Below Dark Surfac	æ (A11)		Deple	ted Orchric (F	11) (MLRA 151	1)	
Thic	k Dark Surface (A12)			Iron-N	/langanese Ma	sses (F12) (LF	R O, P,T)	3tadiantees of hydrophytic variation and watland

\_\_Umbric Surface (F13) (LRR P, T, U)

Reduced Vertic (F18) (MLRA 150A, 150B)

Piedmont Floodplain Soils (F19) (MLRA 149A)

\_Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)

Hydric Soil Present?

\_\_Delta Orchric (F17) (MLRA 151)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland

✓ No

hydrology must be present, unless disturbed or

problematic.

County/soil: Citrus- Boca

\_Coast Prairie Redox (A16) (MLRA 150A)

Sandy Mucky Mineral (S1) (LRR O, S)

\_Dark Surface (S7) (LRR P, S, T, U) Restrictive Layer (If observed): Type: \_ Depth (inches):

\_Sandy Gleyed Matrix (S4) Sandy Redox (S5)

\_Stripped Matrix (S6)

Remarks:

Project/Site: Levy Baseload Transmission Progra	ım, LCR	City/County: Sampling Date:11/5/					
Applicant/Owner: Progress Energy Florida, Inc.		State: FL Sampling Point: AX					
Investigator(s): Stacy Rizzo, Tony Davanzo		Section, Township, Range: 34 17S 16E					
Landform (hillslope, terrace, etc.):N/A		Local relief (concave, convex, none): none Slope (%):					
Subregion (LRR or MLRA): LRR U		57 Long: -82.6	72568	Datum	1: <u>WGS84</u>		
Soil Map Unit Name: Boca fine sand			NWI classification	: NA			
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes _ ✓	No	(If no, explain in Rer	narks)		
Are Vegetation, Soil,	or Hydrology		Are circumstances		✓No		
	or Hydrology		(If needed, explain	any answers in Rema	arks)		
<b>SUMMARY OF FINDINGS - Attach sit</b>			ransects, impo	rtant features, e	tc.		
Hydrophytic Vegetation Present?	YesNo						
Hydric Soil Present?	Yes/ No	Is the Sampled Area v	vithin a Wetland?	Yes/ No			
Wetland Hydrology Present?	Yes No						
Remarks:							
HADDOLOGA							
HYDROLOGY Westland Mydrology Indicators:			Cocondon Indicat	ore (minimum of two			
Wetland Hydrology Indicators:	shook all that apply)	Secondary Indicators (minimum of two requir Surface Soil Cracks (B6)					
Primary Indicators (minimum of one is required; o	Water-Stained Leaves	(DO)	` ,	inna (DO)			
Surface Water (A1)		(69)		getated Concave Surf	ace (Bb)		
High Water Table (A2)	Aquatic Fauna (B13)	20.11	Drainage Pa				
Saturation (A3)	Marl Deposits (B15) (LF	•	Moss Trim L				
Water Marks (B1)	Hydrogen Sulfide Odor	•		Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Bur		- (00)		
Drift Deposits (B3)	Presence of Reduced I	• ,		isible on Aerial Image	ry (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction i	- /		Position (D2)	•		
Iron Deposits (85)	Thin Muck Surface (C7)	•	itard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	irks)	FAC Neutral	Test (D5)			
Field Observations:	N						
Surface Water Present?	Yes No		-				
Water Table Present?	Yes No		Wetland				
Saturation Present?	Yes No	_ Depth (inches): 0-12	Hydrology				
(includes capillary fringe)			Present?	Yes <u>✓ No _</u>			
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:					
Remarks:							
1							
1							
I							

VEGETATION - Use scientific nar	mes of plants				Sampling Point:	AX
				Dominance Test Works	heet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size: )	Cover	Species?	Status			
1.	•			Number of Dominant Spe	ecies	
2.				That Are OBL, FACW, or		(A)
3.				Total Number of Dominar	nt _	
4.	· ———			Species Across All Strata	. 9	(B)
5.				Percent of Dominant Spe	cies	
6.				That Are OBL, FACW, or	20.00	(A/B)
7.				Prevalance Index works		
				1		
		= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	_
1.				FACW species	x2=	
2.				FAC species	x3=	_
3.	· <del></del>			FACU species	x4=	_
		<del></del>		<del>-</del>	<del></del>	_
4.				UPL species	x5=	
5.				Column Totals:	(A)	(B)
6.				İ		
7.				Prevalance Index = I	B/A =	
		= Total Cove		Hydrophytic Vegetation		
Chrish Ctratum (Diat aims)	`	- rotal oove		1		
Shrub Stratum (Plot size:	_)			✓ Dominance Test is	_	
1.				Prevalence Index	is ≤3.0 <sup>1</sup>	
2. 3.				Problematic Hydro	ophytic Vegetation <sup>1</sup> (Exp	plain)
3.						
4.				Indicators of hydric soil a	and wetland hydrology r	nust
5.				be present, unless disturt		
6.	•			Definitions of Vegetatio	n Strata:	
7.		<del></del>		1 *		
***************************************		= Total Cove	·	Tree- Woody plants, exclu-	dina unadu vinas	
Herb Stratum (Plot size:)	v	- Total Cove	.,	approximately 20 ft (6m) or		(7.6
	20		E4011	cm) or larger in diameter a		. (7.0
Solidago spp.     Erianthus spp.	30 30	yes	FACU	1		
3. Eryngium spp.		yes	FAC	Sapling- Woody plants, ex	• •	. 4h 0
	15	no	FACW	approximately 20 ft (6m) or in. (7.6 cm) DBH.	more in neight and less	, man s
Muhlenbergia spp.      Lobelia spp.	10 5	no	FAC OBL	4 ` ′	hadia a a a a a a a a a a a a a a a a	
5. Lobelia spp. 6. 7.		no	OBL	Shrub- Woody plants, exc approximately 3 to 20 ft (1		
7			*	4 ' '		
8.		<del></del>		Herb- All herbaceous (non	• • • • • •	
9.				herbaceous vines, regardle plants, except woody vines		
10.				m) in height.	, iess triair approximatei	y S IL ( I
				4 ´ ~		
11.		•		Woody vine- All woody vir	ies, regardiess of neight	
12.						
	90	= Total Cove	er			
Woody Vine Stratum (Plot size:						
1.				İ		
2.				1		
3						
4.				Hydrophytic		
5.				Vegetation Present?	Yes _ ✓ No_	
		- Total Caus		gemmon r resentr		<del></del>
Domarka: //f abasses   Estate	0	= Total Cove	11			
Remarks: (If observed, list morpho						
Percent cover estimates based on	n meandering s	urvey of the b	roader cor	mmunity.		

		to the de	pth needed to do			confirm the at	sence of indicators	s.)		
Depth	Matrix				Features					
inches)	Color (moist) 10 YR 4/2	%_	Color (moist)	%	Туре	Loc²	Texture	Remarks		
-1	10 1K 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand		
			10 YR 6/6; 10				few medium distinct mottles			
-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand		
	10 111 0/1					·	common medium	· ·		
0-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand		
9-80	10 YR 7/3							very pale brown fine sand		
				_						
	oncentration, D=Dep	letion, RM	1=Reduced Matrix,	CS=Cove	ed or Coated	Sand Grains.	*Location: PL=Po	re Lining, M=Matrix.		
•	Indicators:			Poha	ralija Balaw Si	ufaco (S9) /I DE	) C T III	Indicators for Problematic Hydric Soils <sup>3</sup> : 1 cm Muck (a9) (LRR O)		
					Polyvalue Below Surface (S8) (LRR S, T, U)Thin Dark Surface (S9) (LRR S, T, U)			2 cm Muck (A10) (LRR S)		
Black Histic (A3)  Black Histic (A3)  Loamy Mucky Mineral (F1) (LR						Reduced Vertic (F18) (outside MLRA 150A, B)				
Hydrogen Sulfide (A4)Loamy Gleyed Matrix (F2)				,	Piedmont Floodplain Soils (F19) (LRR P, S, T)					
	d Layers (A5)			Depleted Matrix (F3)				Anomalous Bright Loamy Soils (F20)		
Organic	: Bodies (A6) (LRR F	P, T, U)		Redox Dark Surface (F6)				(MLRA 153B)		
5 cm M	ucky Mineral (A7) (L	ral (A7) (LRR P,T,U)Depleted Dark Surface (F7)				Red Parent Material (TF2)				
✓ Muck F	ck Presence (A8) (LRR U)Redox Depressions (F8)			s (F8)		Very Shallow Dark Surface (TF12) (LRR T, U)				
1 cm M	uck (A9) (LRR P,T)		Marl (F10) (LRR U)			)		Other (Explain in Remarks)		
Deplete	d Below Dark Surfac	ce (A11)		Deple	eted Orchric (F	11) (MLRA 151	)			
	ark Surface (A12)			Iron-	Manganese Ma	asses (F12) (LR	R O, P,T)	31		
 Cnast F	Prairie Redox (A16) (	MI RA 15	ιοδι	Umb	Umbric Surface (F13) (LRR P, T, U)			<sup>3</sup> Indicators of hydrophytic vegetation and wetland		
	, ,,		•	Delta Orchric (F17) (MLRA 151)				hydrology must be present, unless disturbed or problematic.		
	Mucky Mineral (S1) (	LRR O, S	•)				150D)	problemate.		
	Gleyed Matrix (S4) Redox (S5)					<ul><li>(MLRA 150A)</li><li>n Soils (F19) (M</li></ul>				
	d Matrix (S6)						0) (MLRA 149A, 153	C 153D)		
	urface (S7) (LRR P.	C T III			na.oue ong e	ourry come (r 2	o, ( <b>=</b> . 0	0, 1002,		
	Layer (If observed)	<u> </u>					·			
	ype:									
	epth (inches):		-				Hydric Soil Prese	nt? Yes ✓ No .		
Remarks:	- cpur (iridino):	,					11170110 00111 1000	100		

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		Sampling Date: 11/5/09	
Applicant/Owner: Progress Energy Florida, Inc.		State: FL		Sampling Point: AY	
Investigator(s): Stacy Rizzo, Tony Davanzo		_Section, Township, Range	35 17S 16E		
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, convex, none): none Slope (%):			
Subregion (LRR or MLRA): LRR U	Lat: 28,96041	7 Long: -82.66	8148	Datum: WGS84	
Soil Map Unit Name: Boca fine sand			NWI classification	n: NA	
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u></u> ✓	_ No	_ (If no, explain in Remarks)	
Are Vegetation, Soil,	or Hydrology		Are circumstances		
	or Hydrology		(If needed, explain	n any answers in Remarks)	
SUMMARY OF FINDINGS - Attach sit				•	
Hydrophytic Vegetation Present?	YesNo		· · · · · · · · · · · · · · · · · · ·		
Hydric Soil Present?	Yes✓ No	Is the Sampled Area w	ithin a Wetland?	YesNo	
Wetland Hydrology Present?	YesNo	1			
Remarks:	<u> </u>	•			
HYDROLOGY					
Wetland Hydrology Indicators:			tors (minimum of two required)		
Primary Indicators (minimum of one is required; o	heck all that apply)		Surface Soil	l Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (	B9)	Sparsely Ve	getated Concave Surface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)	
✓ Saturation (A3)	Marl Deposits (B15) (LR	RR U)	Moss Trim L	ines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (	(C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres	. ,	Crayfish Bur	, ,	
Drift Deposits (B3)	Presence of Reduced Ire	ron (C4)Saturation Visible on Aerial Imagery (C			
Algal Mat or Crust (B4)	Recent Iron Reduction in				
tron Deposits (B5)	Thin Muck Surface (C7)	• •	` '		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remar				
Field Observations:	Other (Explain in recinar	110)	rAO Nedila	rest (D3)	
ļ	Yes No	Double (in about)			
Surface Water Present?	Yes No				
Water Table Present?			Wetland		
Saturation Present?	Yes No	Depth (inches): 0-6	Hydrology		
(includes capillary fringe)			Present?	Yes <u>✓</u> No	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	inspections), if available:			
Remarks:					
				ļ	

VEGETATION - Use scientific nar	mes of plants			;	Sampling Point:	AY
				Dominance Test Worksho	eet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Speci		(A)
2.				That Are OBL, FACW, or F	AC:	` ,
3.				Total Number of Dominant	<u>2</u>	(B)
4.				Species Across All Strata:		
5. 6.				Percent of Dominant Speci	1011111	(A/B)
7.				That Are OBL, FACW, or F		
7.				Prevalance Index worksh	eet:	
	0	= Total Cove	r	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	_
Salix caroliniana	2	yes	OBL	FACW species	x2=	
2.				FAC species	x3=	_
2. 3.				FACU species	x4=	_
4.	·			UPL species	x5=	_
5.				<del>-</del>		— <sub>(D)</sub>
	· ——			Column Totals:	(A)	(B)
6.				4		
7.				Prevalance Index = B/	<u>/A =</u>	
	2	= Total Cove	r	Hydrophytic Vegetation I	ndicators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is	50%	
1.	•			Prevalence Index is	. <3 ∩¹	
2.				<del></del>	hytic Vegetation <sup>1</sup> (Exp	dain)
3.				Froblematic Hydrop	mytic vegetation (Exp	Jiaiii)
4.				Indicators of hydric soil an	id wetland hydrology n	nuet
5.	· ———			be present, unless disturbe		iiust
6.			***************************************	Definitions of Vegetation		
7.	. ———				outu.	
,		= Total Cove	-	Tara Mandu alanta avaludi		
Harb Chrotisms (Dight sizes	U	- Total Cove	:1	Tree- Woody plants, excludi approximately 20 ft (6m) or r	-	(7.6
Herb Stratum (Plot size:)	00		E40	cm) or larger in diameter at I	-	(7.0
1. Aster spp.	20	yes	FAC OBL	4 · ·		
Juncus spp.     Centella asiatica	10	yes	FACW	Sapling- Woody plants, exc approximately 20 ft (6m) or r		than 3
Centella asiatica     Typha spp.	10	no	OBL	in. (7.6 cm) DBH.	nore in neight and less	lians
5. Bacopa spp.	5	no	OBL	Shrub- Woody plants, exclu	ding woody vines	
6. Solidago spp.	1	no	FACU	approximately 3 to 20 ft (1 to		
7. Ludwigia spp.	· <del></del>	no	OBL	Herb- All herbaceous (non-v		
Hydrocotyle spp.	· <del></del>	no	OBL	herbaceous vines, regardles	7/1	
Rhynchospora colorata	1	no	OBL	plants, except woody vines,		
10. Phyla nodiflora	1	no	FACW	m) in height.		
11. Spilanthes spp.	1	no	FACW	Woody vine- All woody vine	s, regardless of height.	
12.				†		
	81	= Total Cove		†		
Woody Vine Stratum (Plot size:		70.0.	•			
1.						
2.	-			†		
3.						
4.				Hydrophytic		
5.	· <del></del>			Vegetation Present?	Yes ✓ No	
<del></del>		- Total Carra		Trogetation / lesent:		<del></del>
Domorka: (If observed list		= Total Cove		<u> </u>		
Remarks: (If observed, list morph		•				
Percent cover estimates based or	n meandering s	survey of the b	roader cor	mmunity.		

SOIL	il: Citrus- Boca							Sampling Point:A
		to the de	epth needed to do			confirm the al	bsence of indicators	.}
Depth (inches)	Matrix Color (moist)		Color (moist)	Redo %	x Features	Loc <sup>2</sup>	Texture	Demostra
0-7	10 YR 4/2		10 YR 3/1	- 70	Type'		few fine roots	Remarks  dark grayish brown fine sand
							few medium	dan grayon brown mo dana
			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
							common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
		. ——						
Tunni Car	Concentration D=Dan	lation Di	JaDadward Mater	CC-C-			Z11' D1 D	Links and Alexander
	Concentration, D=Dep il Indicators:	letion, Ri	и=кеаисеа маглх,	CS=Cov	ered or Coated	Sand Grains.		re Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histol				Pol	yvalue Below Sui	rface (SR) (I RE		1 cm Muck (a9) (LRR O)
	Epidon (A2)				Dark Surface (S			2 cm Muck (A10) (LRR \$)
	Histic (A3)			_	my Mucky Miner	, , , , ,	•	Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				my Gleyed Matri		,	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)				leted Matrix (F3)			Anomalous Bright Loamy Soils (F20)
Organ	ic Bodies (A6) (LRR F	P, T, U)		Rec	lox Dark Surface	(F6)		(MLRA 153B)
5 cm	Mucky Mineral (A7) (L	RR P.T.U	n	Dep	leted Dark Surfa	ice (F7)		Red Parent Material (TF2)
	Presence (A8) (LRR		•	Rec	lox Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
	Muck (A9) (LRR P,T)	-,			1 (F10) (LRR U)	(-7)		Other (Explain in Remarks)
								Other (Explain in Remarks)
	ted Below Dark Surface	ce (A11)			eleted Orchric (F		-	
Thick Dark Surface (A12)Iron-Manganese Masses (F12) (LF					<sup>3</sup> Indicators of hydrophytic vegetation and wetland			
Coast	Coast Prairie Redox (A16) (MLRA 150A)Umbric Surface (F13) (LRR P, T, L				hydrology must be present, unless disturbed or			
Sandy	Mucky Mineral (S1) (	LRR O, S	S)	Delt	ta Orchric (F17) (	(MLRA 151)		problematic.
Sandy	Gleyed Matrix (S4)	-	•	Red	luced Vertic (F18	B) (MLRA 150A	. 150B)	
Sandy	Redox (S5)			Pie	dmont Floodplain	Soils (F19) (M	LRA 149A)	
Stripp	ed Matrix (S6)			And	malous Bright Lo	oamy Soils (F20	D) (MLRA 149A, 153C	, 153D)
Dark S	Surface (S7) (LRR P,	S. T. U1						
	e Laver (if observed)							
	Type:							
	Depth (inches):						Hydric Soil Presen	nt? Yes ✓ No .
Remarks:	<u>' `</u>						1. 7	
								<b>y</b>
				,				

Project/Site: Levy Baseload Transmission Progra	m LCR	City/County: Citrus		_Sampling Date:	11/6/09	
Applicant/Owner: Progress Energy Florida, Inc.		State: FL				
Investigator(s): Stacy Rizzo, Tony Davanzo		Section, Township, Range	_			
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, convex, none): none Slope (%)				
, , , , , , , , , , , , , , , , , , , ,		259 Long: -82.668928 Datum: WGS				
Soil Map Unit Name: Boca fine sand		20119. 02.00	NWI classification			
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes ✓		(If no, explain in R	emarks)	
Are Vegetation, Soil,	•		Are circumstances		No	
	or Hydrology			n any answers in Re		
SUMMARY OF FINDINGS - Attach sit			•	-		
Hydrophytic Vegetation Present?	Yes ✓ No			oranii ioataioo,		
Hydric Soil Present?	YesNo	Is the Sampled Area w	rithin a Wetland?	Yes✓ No		
Wetland Hydrology Present?	Yes_ ✓ No	1				
Remarks:		<b>-1</b>				
		•				
HYDROLOGY						
Wetland Hydrology Indicators:		The second of th	Secondary Indicat	tors (minimum of two	o required)	
Primary Indicators (minimum of one is required; of	heck all that apply)		<del></del>			
Surface Water (A1)	Water-Stained Leaves	(B9)	Surface Soil Sparsely Ve	getated Concave Si	urface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)	()	Drainage Pa	_	(- ',	
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR III	Moss Trim L			
Water Marks (B1)	Hydrogen Sulfide Odor	•		Water Table (C2)		
` ′		on Living Roots (C3)Crayfish Burrows (C8)				
Sediment Deposits (B2)			- ,	2004 (CO)		
Drift Deposits (B3)	Presence of Reduced I	• •		isible on Aerial Ima	gery (C3)	
Algal Mat or Crust (B4)	Recent Iron Reduction i		-	Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aqu			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	FAC Neutra	i Test (D5)		
Field Observations:	N .					
Surface Water Present?	Yes No <u>✓</u>		-			
Water Table Present?	Yes No		Wetland			
Saturation Present?	Yes No	_ Depth (inches): 0-12	Hydrology			
(includes capillary fringe)			Present?	Yes <u>/</u> No		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:				
Remarks:						

County/soil: Citrus- Boca	
SOIL	Sampling Point:

SOIL								Sampling Point:AZ		
	escription: (Describe t	to the de	pth needed to doc			confirm the ab	sence of indicators.	)		
Depth	Matrix				x Features					
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc²	Texture	Remarks		
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand		
İ							few medium			
ŀ			10 YR 6/6; 10				distinct mottles			
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand		
					-		common medium			
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand		
39-80	10 YR 7/3							very pale brown fine sand		
	· <del></del>			—						
Type: C=	Concentration, D=Depl	etion RM	I=Reduced Matrix (	S=Cov	ered or Coated S	and Grains	21 ocation: P1 =Por	e Lining, M=Matrix.		
	oil Indicators:	Cuon, 1417	I-reduced Highly, (	30-000	cica oi coatca o	ana Grains.		Indicators for Problematic Hydric Soils 3:		
Histol				Dol	yvalue Below Surl	faco (SB) (I DB		1 cm Muck (a9) (LRR O)		
	Epidon (A2)				n Dark Surface (S			2 cm Muck (A10) (LRR S)		
					•	, , , , ,	•			
	Histic (A3)				amy Mucky Minera		)	Reduced Vertic (F18) (outside MLRA 150A, B)		
	ogen Sulfide (A4)				amy Gleyed Matrix			Piedmont Floodplain Soils (F19) (LRR P, S, T)		
	fied Layers (A5)				pleted Matrix (F3)			Anomalous Bright Loamy Soils (F20)		
Organ	nic Bodies (A6) (LRR P	', I, U)			dox Dark Surface	. ,		(MLRA 153B)		
5 cm	Mucky Mineral (A7) (LF	RR P,T,U	)	Dep	pleted Dark Surfa	ce (F7)		Red Parent Material (TF2)		
✓ Muck	Presence (A8) (LRR I	Ji	•	Red	dox Depressions (	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)		
		-,		_	d (F10) (LRR U)	/		Other (Explain in Remarks)		
t cm	Muck (A9) (LRR P,T)				IT (F TO) (LKK U)			Other (Explain in Remarks)		
Deple	ted Below Dark Surfac	e (A11)		De <sub>l</sub>	pleted Orchric (F1	11) (MLRA 151	)			
Thick	Dark Surface (A12)			tror	n-Manganese Mas	sses (F12) (LR	R O. P.T)	3		
	, ,				ibric Surface (F13			<sup>3</sup> Indicators of hydrophytic vegetation and wetland		
Coasi	t Prairie Redox (A16) (I	VILKA 15	UA)		•		Tryandingy made be proporti, among distances of			
Sand	y Mucky Mineral (S1) (L	RR O, S	)	Del	lta Orchric (F17) (	MLRA 151)		problematic.		
Sand	y Gleyed Matrix (S4)			Re	duced Vertic (F18	) (MLRA 150A	, 150B)			
	y Redox (S5)				dmont Floodplain					
	ed Matrix (S6)				•		)) (MLRA 149A, 153C	: 153D)		
				—~" <b>"</b>	midiods bright co	Janny 00/13 (1 20	) (III E 140A, 1000	, 1005)		
	Surface (S7) (LRR P, S									
Restrictiv	e Layer (If observed):									
	Type:									
	Depth (inches):						Hydric Soil Presen	nt? Yes <u>√</u> No		
Remarks:	<del></del>				<del></del>					
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Project/Site: Levy Baseload Transmission Progra	City/County: Citrus		Sampling Date:	11/6/09		
Applicant/Owner: Progress Energy Florida, Inc.	State: FL		Sampling Point:			
		Section, Township, Range: 34 17S 16E				
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, conv		Slor	pe (%):	
Subregion (LRR or MLRA): LRR U	•	·			um: WGS84	
Soil Map Unit Name: Boca fine sand		20.13	NWI classification:			
Are climatic / hydrologic conditions on the site typ	sical for this time of year?	Yes ✓	_ No		Pemarks)	
, ,	or Hydrology		Are circumstances		No	
	or Hydrology		(If needed, explain			
SUMMARY OF FINDINGS - Attach sit				•	•	
Hydrophytic Vegetation Present?	YesNo	ing point locations, t	iansects, impor	tant leatures,		
Hydric Soil Present?		No Is the Sampled Area within a Wetland				
Wetland Hydrology Present?	Yes ✓ No	╡ '				
Remarks:		-				
HYDROLOGY						
Wetland Hydrology Indicators:		· · · · · · · · · · · · · · · · · · ·	Secondary Indicato	rs (minimum of two	o required)	
Primary Indicators (minimum of one is required; of	theck all that annly)		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves	(BQ)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Aquatic Fauna (B13)	(63)	Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15) (LI	Moss Trim Lines (B16)				
Water Marks (B1)	Hydrogen Sulfide Odor	•		Vater Table (C2)		
<del>`</del> `	Oxidized Rhizospheres					
Sediment Deposits (B2)  Drift Deposits (B3)	Presence of Reduced I		Crayfish Burrows (C8)Saturation Visible on Aerial Imagery (C9)			
	Recent Iron Reduction	• •			gery (Ca)	
Algal Mat or Crust (B4)	<del></del>			Geomorphic Position (D2)Shallow Aquitard (D3)		
Iron Deposits (B5)	Thin Muck Surface (C7		Shallow Adultaru (D3)FAC Neutral Test (D5)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	irks)	FAC Neutral	rest (D5)		
Field Observations:	V No /	Death (cabas)				
Surface Water Present?	YesNo		-			
Water Table Present?	YesNo		Wetland			
Saturation Present?	Yes ✓ No	Depth (inches):0-12	Hydrology			
(includes capillary fringe)		- (	Present?	Yes <u>✓ No</u>		
Describe Recorded Data (stream gauge, monitor	ing well, aenal photos, previous	s inspections), it available:				
Remarks:						
	i,					

VEGETATION - Use scientific nar	mes of plants				Sampling Point:	BA
				Dominance Test Worksh	eet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Spec	4	(A)
2.				That Are OBL, FACW, or I	AC:	` '
3.				Total Number of Dominan	4	(B)
4.				Species Across All Strata:		
5. 6.				Percent of Dominant Spec	TOD OU	(A/B)
				That Are OBL, FACW, or I		
7.				Prevalance Index works	neet:	
	0	= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	_
Diospyros virginiana	5	yes	FAC	FACW species	x2=	
2. Salix spp.	2	yes	FACW	FAC species	x3=	_
3.				FACU species	x4=	
4.				UPL species	x5=	_
				1 ' —		<b>–</b> "E.
5				Column Totals:	(A)	_ (B)
6.						
7.				Prevalance Index = B	/A =	
	7	= Total Cove	er	Hydrophytic Vegetation	Indicators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is	50%	
1.	<del>-</del> -'			Prevalence Index is	ະ <3 Ո <sup>1</sup>	
2.	• ———				ohytic Vegetation <sup>1</sup> (Exp	dain)
3.	•			Problematic riyuloj	onytic vegetation (Exp	Jiaiii)
4.				Indicators of hydric soil a	nd wetland hydrology r	nuet
5.	•			be present, unless disturb		iidot
6.				Definitions of Vegetation		
7.				Deminions of Vegetation	· Ottata.	
		= Total Cove		Tree Woody plants evalud	ina woody vinos	
Harb Charture (Diet siese	U	- Total Cove	;1	Tree- Woody plants, exclud approximately 20 ft (6m) or		(7.6
Herb Stratum (Plot size:)	20		ODL	cm) or larger in diameter at	-	. (7.0
Hyptis alata     Eustachys glauca	20 20	yes	FACW	4 ′	• • •	
Eustachys glauca     Lobelia spp.	5	yes no	OBL	Sapling- Woody plants, exc approximately 20 ft (6m) or		than 3
4. Erianthus spp.	5	no	FAC	in. (7.6 cm) DBH.	more in neight and less	and i
Dichromena spp.	1	no	FACW	Shrub- Woody plants, exclu	ıdına woody vines	
Spilanthes spp.	1	no	FACW	approximately 3 to 20 ft (1 to		
7. Fuirena spp.	1	no	OBL	Herb- All herbaceous (non-	woody)plants, including	
8.				herbaceous vines, regardle		
9.				plants, except woody vines,	less than approximatel	y 3 ft (1
10.				m) in height.		
11.				Woody vine- All woody vine	es, regardless of height	-
12.				1		
	53	= Total Cove	er			
Woody Vine Stratum (Plot size:				ł		
1.	·/					
2.			<del></del>	1		
3.						
4.				Hydrophytic		
5.				Vegetation Present?	Yes ✓ No	
		= Total Cove		30		<del></del>
Remarks: (If observed, list morph			<del>31</del>	<u> </u>		
Percent cover estimates based or		•	roader co	mmunity.		

County/soil:	Citrus.	Roca
COULTY/SUR.	Citius-	DUCA

SOIL	·					Sampling Point:BA
Profile De	scription: (Describe to	the depth needed to doo	ument the indicator or co	onfirm the ab	sence of indicators.	)
Depth	Matrix		Redox Features			
(inches)	Color (moist)	% Color (moist)	% Type	Loc²	Texture	Remarks
0-7	10 YR 4/2	10 YR 3/1			few fine roots	dark grayish brown fine sand
					few medium	
		10 YR 6/6; 10			distinct mottles	
7-20	10 YR 6/4	YR 7/2			and streaks	light yellowish brown fine sand
1-20	10 11( 0/4	- 11772	<del></del>		common medium	nght yellowish brown the sand
00.00	40 VD 714	40 MD 010				
20-39	10 YR 7/4	10 YR 6/6	· —— ——— ·		distinct mottles	very pale brown fine sand
39-80	10 YR 7/3					very pale brown fine sand
			<del></del>			
			· — — - ·			
Type: C=(	Oncentration D=Denleti	on PM=Peduced Matrix	CS=Covered or Coated Sar	nd Grains	21 ocation: PL =Por	e Lining, M=Matrix.
		on, Rivi-Reduced Matrix,	C3=Covered or Coaled Sai	io Grants.		
	il Indicators:					Indicators for Problematic Hydric Soils 3:
Histol	· ,		Polyvalue Below Surfa			1 cm Muck (a9) (LRR O)
	Epidon (A2)		Thin Dark Surface (S9	) (LRR S, T, I	U)	2 cm Muck (A10) (LRR S)
Black	Histic (A3)		Loamy Mucky Mineral	(F1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A, B)
Hydro	gen Sulfide (A4)		Loamy Gleyed Matrix			Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)		Depleted Matrix (F3)			Anomalous Bright Loamy Soils (F20)
	ic Bodies (A6) (LRR P, T	. U)	Redox Dark Surface (I	-6)		(MLRA 153B)
		•	Depleted Dark Surface			
	Mucky Mineral (A7) (LRR	! P,T,U)	— '			Red Parent Material (TF2)
Muck	Presence (A8) (LRR U)		Redox Depressions (F	8)		Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm l	Muck (A9) (LRR P,T)		Marl (F10) (LRR U)			Other (Explain in Remarks)
						outor (Exposition Contains)
Deple	ted Below Dark Surface (	A11)	Depleted Orchric (F11	) (MLRA 151)	)	
Thick	Dark Surface (A12)		Iron-Manganese Mass	es (F12) (LR	R O. P.T)	3
	, ,	D. 45041				Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (ML	.RA 150A)	Umbric Surface (F13)	(LKK P, 1, U		hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (LR	ROS)	Delta Orchric (F17) (M	ILRA 151)		problematic.
_	Gleyed Matrix (S4)	0, 0,	Reduced Vertic (F18)		150D)	
				•	•	
	Redox (S5)		Piedmont Floodplain S		•	
Stripp	ed Matrix (S6)		Anomalous Bright Loa	my Soils (F20	)) (MLRA 149A, 153C	(, 153D)
Dark!	Surface (S7) (LRR P, S,	T 11)				
		., 0/				<del></del>
•	e Layer (If observed):					
	Туре:					
_	Depth (inches):				Hydric Soil Presen	t? Yes <u>√</u> No
Remarks:						
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Project/Site: Levy Baseload Transmission Progra	City/County: Citrus		Sampling Date:	11/6/09	
Applicant/Owner: Progress Energy Florida, Inc.	• • • • • • • • • • • • • • • • • • • •		_ , -		
Investigator(s): Stacy Rizzo, Tony Davanzo		_Section, Township, Range			
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, conv	·		oe (%):
Subregion (LRR or MLRA): LRR U		•	· · · · · · · · · · · · · · · · · · ·		, ,
Soil Map Unit Name: Boca fine sand			NWI classification:		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes ✓	_ No		Pemarks)
	or Hydrology		Are circumstances		✓No
	or Hydrology		(If needed, explain		
SUMMARY OF FINDINGS - Attach sit				•	•
Hydrophytic Vegetation Present?	YesNo	point locations, t	iansecta, impo	rant leatures,	, e.c.
Hydric Soil Present?	Yes_ ✓ No	Is the Sampled Area w	vithin a Wetland?	Yes ✓ No	
Wetland Hydrology Present?	Yes_ ✓ No	f			
Remarks:	163				
HYDROLOGY	· · · · · · · · · · · · · · · · · · ·				
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of tw	o required)
Primary Indicators (minimum of one is required; c	heck all that apply)		Surface Soil Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	•	<del></del>	Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Burn	•	
Drift Deposits (B3)	Presence of Reduced In			isible on Aerial Ima	gery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction i	. ,	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	• •	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	•	FAC Neutral		
Field Observations:	· · · · · · · · · · · · · · · · · · ·	<del></del>	1		
Surface Water Present?	Yes No	_ Depth (inches):			
Water Table Present?	Yes No		]		
Saturation Present?	Yes✓No		Wetland		
(includes capillary fringe)			Hydrology Present?	Yes ✓ No	
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous	s inspections), if available:	<u></u>		
Remarks:					
, tondino.					

VEGETATION - Use scientific nan	nes of plants	Sampling Point:BB				
				Dominance Test Worksheet:		
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Species	<u>4</u>	(A)
2.				That Are OBL, FACW, or FAC:	_	` ′
3.				Total Number of Dominant	<u>4</u>	(B)
4.				Species Across All Strata:		
5. 6.				Percent of Dominant Species	<u>100.00</u>	(A/B)
				That Are OBL, FACW, or FAC:		
7.				Prevalance Index worksheet:		
	0	= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	_x1=	_
1. Diospyros virginiana	10	yes	FAC	FACW species	x2=	
2. Salix spp.	5	yes	FACW	FAC species	x3=	_
3.				FACU species	x4=	-
4.				UPL species	x5=	-
						<b>-</b>
5.				Column Totals:	_(A)	– <sup>(B)</sup>
6.				1		
7.				Prevalance Index = B/A =		
	15	= Total Cove	er	Hydrophytic Vegetation Indic	ators:	
Shrub Stratum (Plot size:	_)			✓ Dominance Test is 50%		
1.				Prevalence Index is ≤3.0	n¹	
2.				Problematic Hydrophytic		dain)
3.				r Toblematic Hydrophytic	vegetation (Exp	nairi)
4.	<del></del>	<del></del>		Indicators of hydric soil and we	etland hydrology m	nuet
5.				be present, unless disturbed or		iuot
6.				Definitions of Vegetation Stra	•	
7.				Tochinicons of Vegetation out	aca.	
••	0	= Total Cove		\\\(\frac{1}{2} - \rac{1}{2} \rac{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc{1}{2} - \racc		
Hart Otatas (Distair	U	- Total Cove	÷i	Tree- Woody plants, excluding water approximately 20 ft (6m) or more	•	/7 G
Herb Stratum (Plot size:)	40		0.01	cm) or larger in diameter at breas		(7.0
1. Cladium spp.	40	yes	OBL	<b>4</b>		
Spilanthes spp.     Hydrocotyle spp.	10	yes	FACW OBL	Sapling- Woody plants, excluding approximately 20 ft (6m) or more		than 3
4. Erianthus spp.	5	no no	FAC	in. (7.6 cm) DBH.	in neight and less	uiaii S
Eustachys glauca	5	no	FACW	Shrub- Woody plants, excluding	woody vines	
6.				approximately 3 to 20 ft (1 to 6 m		
7.				Herb- All herbaceous (non-wood	v)plants, including	
8.				herbaceous vines, regardless of		dy
9.				plants, except woody vines, less	than approximately	3 ft (1
10.				m) in height.		
11.				Woody vine- All woody vines, re	gardless of height.	
12.						
·	100	= Total Cove	er	1		
Woody Vine Stratum (Plot size:		. 0.0.				
1. 2.				1		
3. 4. 5.				Hydrophytic		
5				1	s ✓ No	
	0	= Total Cove		1.030.00.00.00.00.00.00.00.00.00.00.00.00		<del></del>
Remarks: (If observed, list morpho	_		<u> </u>	<u> </u>		
Percent cover estimates based on			roader ee	mmunity		
, Grown Gover estimates Daseu Of	i incanacinia s	our vey or use b	nuauti Wi	mmunity.		

SOIL								Sampling Poin	nt: <u>Bl</u>
	escription: (Describe	to the de	pth needed to doo			confirm the ab	sence of indicators.)		
Depth (inches)	Matrix		Calas (maint)		x Features	1004	T4	Demoto	
(inches) 0-7	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc	Texture	Remarks	
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand	
Ì							few medium		
			10 YR 6/6; 10				distinct mottles		
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand	
							common medium	-	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand	
39-80	10 YR 7/3							very pale brown fine sand	
			<del></del>						
	-								
	• ———								
Transi Car	Concentration, D=Dep	lotion DA	4-Dadusad Matrix	CE-CO.	arad or Castad C	and Crains	<sup>2</sup> Location: PL=Pore	a Lining Manhantair	
		euon, Riv	n=Reduced Matrix,	US=U0V	ered or Coaled S	and Grains.			3
	oil Indicators:							Indicators for Problematic Hydric Soils	-:
Histo					yvalue Below Sur			1 cm Muck (a9) (LRR O)	
	: Epidon (A2)			Thi	n Dark Surface (9	69) (LRR S, T,	U) .	2 cm Muck (A10) (LRR S)	
Black	Histic (A3)			Loa	my Mucky Minera	al (F1) (LRR O)	)	Reduced Vertic (F18) (outside MLRA	150A, B)
Hydro	ogen Sulfide (A4)			Loa	my Gleyed Matri:	x (F2)	•	Piedmont Floodplain Soils (F19) (LRR	. P, S, T)
	fied Layers (A5)				oleted Matrix (F3)		•	Anomatous Bright Loamy Soits (F20)	
	nic Bodies (A6) (LRR F	P, T, U)			dox Dark Surface		•	(MLRA 153B)	
			15	— <sub>Do</sub>	oleted Dark Surfa	00 (E7)		Red Parent Material (TF2)	
	Mucky Mineral (A7) (L		)			` '	•		
Mucl	Presence (A8) (LRR	U)		Red	dox Depressions	(F8)		Very Shallow Dark Surface (TF12) (LF	RR T, U)
1 cm	Muck (A9) (LRR P,T)			Mai	rl (F10) (LRR U)			Other (Explain in Remarks)	
	eted Below Dark Surface	æ (A11)			oleted Orchric (F1		•		
Thick	Dark Surface (A12)			lror	n-Manganese Ma:	sses (F12) (LR	R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and w	mtland
Coas	t Prairie Redox (A16) (	MI RA 15	(0Δ)	Um	bric Surface (F13	3) (LRR P. T. U			
			•					hydrology must be present, unless disturbe	a or
Sand	y Mucky Mineral (S1) (I	LRR O, S	5)	Del	ta Orchric (F17) (	(MLRA 151)	1	problematic.	
Sand	y Gleyed Matrix (S4)			Rec	duced Vertic (F18	) (MLRA 150A	, 150B)		
	y Redox (S5)			——Pie	dmont Floodplain	Soils (F19) (M	LRA 149A)		
	ped Matrix (\$6)			_	•		) (MLRA 149A, 153C	153D)	
—	• •				omalous Dright Le	Jan 19 00113 (1 20	) (MEIGH 145A, 1000)	, 1000)	
	Surface (S7) (LRR P,								
Restrictiv	e Layer (If observed)	:							
	Type:								
	Depth (inches):		<u>.</u>				Hydric Soil Presen	t? Yes ✓ No .	
Remarks:	<u> </u>						1.1, 2.1.0 0 0.1.1 1 0 0 0.1.		
itelliaiks.									
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Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		Sampling Date:11/6/09		
Applicant/Owner: Progress Energy Florida, Inc.			Sampling Point: BC			
Investigator(s): Stacy Rizzo, Tony Davanzo	And the state of t	Section, Township, Range: <u>35 17S 16E</u>				
Landform (hillslope, terrace, etc.):N/A		Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U	Lat: 28.95957	71 Long: -82.6	65386	Datum: WGS84		
Soil Map Unit Name: Boca fine sand			NWI classification	ı: NA		
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes✓	No	_ (If no, explain in Remarks)		
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstance	s normal? YesNo		
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain	n any answers in Remarks)		
SUMMARY OF FINDINGS - Attach sit	te map showing sampli	ing point locations, t	ransects, impo	ortant features, etc.		
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	Yes No	Is the Sampled Area v	vithin a Wetland?	Yes No		
Wetland Hydrology Present?	Yes No					
Remarks:	·					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)		
Primary Indicators (minimum of one is required; of	theck all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (	(B9)	Sparsely Ve	getated Concave Surface (B8)		
High Water Table (A2)	<del></del>			atterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	·	Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres	•	rrows (C8)			
Drift Deposits (B3)	Presence of Reduced In			Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction i			Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)			Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7)			FAC Neutra			
Field Observations:			T			
Surface Water Present?	Yes No	_ Depth (inches):	_			
Water Table Present?	Yes No		-			
Saturation Present?	Yes No		Wetland Hydrology			
(includes capillary fringe)		_	Present?	Yes No		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:	1			
Remarks:						
	+					
				·		

VEGETATION - Use scientific nar	mes of plants			Sam	npling Point:	ВС
				Dominance Test Worksheet:		
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Species	. <u>4</u>	(A)
2.				That Are OBL, FACW, or FAC Total Number of Dominant	•	
3. 4.	· —			Species Across All Strata:	<u>4</u>	(B)
5.				Percent of Dominant Species		
6.	· <del></del>			That Are OBL, FACW, or FAC	. <u>100.00</u>	(A/B)
7.				Prevalance Index worksheet		
	Ü	= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:				OBL species	_x1=	_
Diospyros virginiana	5	yes	FAC	FACW species	x2=	_
2. 3.				FAC species	_x3=	_
3.				FACU species	x4=	
4.				UPL species	x5=	_
5.				Column Totals:	(A)	(B)
6.	. ——				_ ( ,	_ (-/
7.				Prevalance Index = B/A =		
<i>.</i> .	5	= Total Cove		Hydrophytic Vegetation Indi		
	,	- Total Cove	žI			
Shrub Stratum (Plot size:	)			✓ Dominance Test is 50%		
Ilex cassine	1	yes	FACW	Prevalence Index is ≤3		
2.				Problematic Hydrophyti	ic Vegetation¹ (Exp	olain)
3.				1,		
4.				Indicators of hydric soil and w		nust
5.				be present, unless disturbed o	· · · · · · · · · · · · · · · · · · ·	
6.				Definitions of Vegetation Str	rata:	
7.				1		
	1	= Total Cove	er	Tree- Woody plants, excluding v	•	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or more	-	(7.6
Cyperus spp.	30	yes	FACW	cm) or larger in diameter at brea	ast neight (DBH).	
Muhlenbergia spp.	30	yes	FAC	Sapling- Woody plants, excluding		
Centella spp.	10	no	FACW	approximately 20 ft (6m) or more	e in height and less	than 3
4. Cladium spp.		no	OBL	in. (7.6 cm) DBH.		
5. Dichromena spp.	5	no	FACW	Shrub- Woody plants, excluding		
6. Spartina patens	- 5 2	no	FACW	approximately 3 to 20 ft (1 to 6 r		
Pluchea spp.     Hyptis alata		no	FACW OBL	Herb- All herbaceous (non-wood herbaceous vines, regardless of		adu.
9. Spilanthes spp.	· <del>- 1</del>	no	FACW	plants, except woody vines, less		-
10.	·		TACVV	m) in height.	, than approximately	
	·			Woody vine- All woody vines, re	enardless of height	
11. 12.	<del></del>			Twoody vine- All woody vines, it	egardiess of fleight.	
12.		T-1-1 C		+		
	. 94	= Total Cove	er			
Woody Vine Stratum (Plot size:	)			1		
1.	- ———			4		
2. 3.	. ———					
4.				4		
	·			Hydrophytic	a / Na	
5.	· ——			Vegetation Present? Ye	s <u> </u>	<u>·</u>
	0	= Total Cove	er			
Remarks: (If observed, list morph		•				
Percent cover estimates based or	n meandering s	survey of the b	roader co	mmunity.		

rofile Des epth								Sampling Point:		
epin	scription: (Describe	to the de	pth needed to do			confirm the ab	sence of indicators	.)		
•	Matrix		Calar (maint)		Features	Loc²	Touture	Demonte		
nches) -7	Color (moist) 10 YR 4/2	%	Color (moist) 10 YR 3/1	%_	Type <sup>1</sup>	Loc	Texture few fine roots	Remarks dark grayish brown fine sand		
<del>-</del> /	10 TR 4/2		10 113/1				few medium	dark grayish brown line sand		
			10 YR 6/6; 10				distinct mottles			
-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand		
	10 111 011		-111772				common medium	ight yellevion brown tine cand		
0-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand		
9-80	10 YR 7/3							very pale brown fine sand		
						· <del></del>	-	· ·		
							*			
ype: C=C	Concentration, D=Dept	etion, RN	=Reduced Matrix,	CS=Cove	red or Coated	Sand Grains.	2Location: PL=Po	re Lining, M=Matrix.		
ydric Soi	I Indicators:		·					Indicators for Problematic Hydric Soils 3:		
Histol (	(A1)			Poly	value Below Su	ırface (S8) (LRR	RS, T, U)	1 cm Muck (a9) (LRR O)		
_	Epidon (A2)			Thin	Dark Surface (	(S9) (LRR S, T,	U)	2 cm Muck (A10) (LRR S)		
	Histic (A3)					ral (F1) (LRR O	)	Reduced Vertic (F18) (outside MLRA 150A, B)		
	gen Sulfide (A4)				my Gleyed Mati			Piedmont Floodplain Soils (F19) (LRR P, S, T)		
	ed Layers (A5)			Depleted Matrix (F3) Redox Dark Surface (F6)				Anomalous Bright Loamy Soils (F20)		
	ic Bodies (A6) (LRR F					• •		(MLRA 153B)		
_	/lucky Mineral (A7) (Li		1)		leted Dark Surf			Red Parent Material (TF2)		
Muck	Presence (A8) (LRR I	U)		Red	ox Depressions	i (F8)		Very Shallow Dark Surface (TF12) (LRR T, U)		
1 cm N	fluck (A9) (LRR P,T)			Marl (F10) (LRR U)			Other (Explain in Remarks)			
Deplet	ed Below Dark Surfac	e (A11)		Dep	leted Orchric (F	11) (MLRA 151	)			
'	Dark Surface (A12)	- ( ,		Iron-Manganese Masses (F12) (LRR O, P,T)			R O. P.T)	3		
_	Prairie Redox (A16) (	MI DA 45	(0.6)		ū	13) (LRR P, T, U		<sup>3</sup> Indicators of hydrophytic vegetation and wetland		
_	, ,,		•		•		•	hydrology must be present, unless disturbed or problematic.		
	Mucky Mineral (S1) (I	LRR O, S	<del>)</del> )		a Orchric (F17)	,		problematic.		
	Gleyed Matrix (S4)					8) (MLRA 150A	•			
	Redox (S5)			_	•	n Soils (F19) (M	•	- 455D)		
Strippe	ed Matrix (S6)			Ano	malous Bright L	oamy Soils (F20	0) (MLRA 149A, 153	C, 153D)		
Dark S	Surface (S7) (LRR P,	S, T, U)								
estrictive	Layer (If observed)	:								
-	Туре:		<del> </del>				1			
1	Depth (inches):						Hydric Soil Prese	nt? Yes <u> </u>		

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus Sampling Date: 11/8			11/8/09	
Applicant/Owner: Progress Energy Florida, Inc.	State: FL Sampling Point: BD			BD		
Investigator(s): Stacy Rizzo, Tony Davanzo		Section, Township, Range: 35 17S 16E				
Landform (hillslope, terrace, etc.):N/A		Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U	28 Long: -82.66	3905	Da	tum: WGS84		
Soil Map Unit Name: Boca fine sand		<del></del>	NWI classification:			
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in	Remarks)	
* -	or Hydrology		Are circumstances		sNo	
Are Vegetation, Soil,			(If needed, explain	any answers in R	emarks)	
SUMMARY OF FINDINGS - Attach sit			ransects, impo	rtant features	s, etc.	
Hydrophytic Vegetation Present?	Yes No		· · ·			
Hydric Soil Present?	Yes No	Is the Sampled Area w	ithin a Wetland?	Yes✓No		
Wetland Hydrology Present?	YesNo					
Remarks:						
HYDROLOGY			Casandan Indicat		uo roquirod)	
Wetland Hydrology Indicators:	Annal all that analy.		Secondary Indicate		wo required)	
Primary Indicators (minimum of one is required; o		(DO)		il Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves	B9)Sparsely Vegetated Concave Surface (I  Drainage Patterns (B10)			Suпасе (Вв)	
High Water Table (A2)	Aquatic Fauna (B13)					
Saturation (A3)	Mart Deposits (B15) (LI	· · · · · · · · · · · · · · · · · · ·				
Water Marks (B1)	Hydrogen Sulfide Odor	· · · · · · · · · · · · · · · · · · ·				
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Bur		_	
Drift Deposits (B3)	Presence of Reduced I			isible on Aerial Im	agery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction	, ,		ic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7	,	Shallow Aqu			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	FAC Neutral	Test (D5)		
Field Observations:						
Surface Water Present?	Yes No		-			
Water Table Present?	Yes No/		Wetland			
Saturation Present?	Yes No	_ Depth (inches): 0-12	Hydrology			
(includes capillary fringe)			Present?	Yes <u>✓ No</u>	·	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previou	s inspections), if available:				
Remarks:						
į						

VEGETATION - Use scientific na	mes of plants				Sampling Point:	BD
				Dominance Test Works	heet:	•
- 00-1 - (Blaketer)	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status	Number of Dominant Say	!	
<u>1.</u> 2.				Number of Dominant Spe That Are OBL, FACW, or	יי	(A)
3.	- —			Total Number of Domina		
<u>4.</u>		<del></del>	<del></del>	Species Across All Strata	6	(B)
5.				Percent of Dominant Spe	acies	
6.	- —			That Are OBL, FACW, or	83.33	<u>3</u> (A/B)
7.		•		Prevalance Index works		
1.		= Total Cove		Total % Cover of:		
Conting Stratum (Plot size:	,	- IUlai Cove	я			<u>y.</u>
Sapling Stratum (Plot size:	<del></del>		- 1 O M	OBL species	x1=	
1. Salix spp.	30	yes	FACW	FACW species	x2=	
Diospyros virginiana	5	no	FAC	FAC species	x3=	
3. Cornus foemina	5	no	FACW	FACU species	x4=	
4.				UPL species	x5=	
5.				Column Totals:	(A)	(B)
6.	- —			†	· · · · · · · · · · · · · · · · · · ·	<del></del> `
7.				Prevalance Index =	R/A =	
	40	= Total Cove		Hydrophytic Vegetation		
Shrub Stratum (Plot size:	١.	- 10161 0010	,,	✓ Dominance Test i		
	<del>_</del> '					
Cephalanthus occidentalis		yes	OBL	Prevalence Index		
Myrica cerifera	5	yes	FAC	Problematic Hydro	ophytic Vegetation <sup>1</sup> (	Explain)
3.				] 	No. 10 and to decide	
4.				Indicators of hydric soil		jy must
5.	- ——			be present, unless distur		
6.				Definitions of Vegetation	on Strata:	
7.				4		
	10	= Total Cove	ar	Tree- Woody plants, exclu		
Herb Stratum (Plot size:)				approximately 20 ft (6m) o		
Dichromena spp.	10	yes	FACW	cm) or larger in diameter a		
2. Cyperus surinamensis	10	yes	FACW	Sapling- Woody plants, e.		
3. Eupatorium capillifolium	10	yes	FACU	approximately 20 ft (6m) o	r more in height and le	ess than 3
4. Pontederia cordata		no	OBL	in. (7.6 cm) DBH.		
5. 6.				Shrub- Woody plants, exc approximately 3 to 20 ft (1		
7.				<b>-1</b> '' ' '		·
8.	-			Herb- All herbaceous (nor herbaceous vines, regard)	***	~
9.		<del></del>		plants, except woody vines		
10.				m) in height.	3, 1000 than app. 0	1101) C ., .
11.	-			Woody vine- All woody vi	nes renardless of hei	oht
12.	-				les, regardiess or hei	gin.
12.		- Total Cour		4		
l	35	= Total Cove	at.			
Woody Vine Stratum (Plot size:						
1.				4		
2.				ļ		
3.		<del></del>		-		
4.				Hydrophytic	/	
5.				Vegetation Present?	YesNo	
	0	= Total Cove	er			
Remarks: (If observed, list morph	ological adapta	itions below).				
Percent cover estimates based or	n meandering s	survey of the b	roader cor	mmunity.		

County/soil:	Citrus-	Boca
SOIL		

rofile De	1 .1 15 11									
	scription: (Describe t	to the de	pth needed to doc	ument the indicator or c	onfirm the ab	sence of indicators.	1			
epth	Matrix			Redox Features						
iches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc²	Texture		Re	marks	
7	10 YR 4/2		10 YR 3/1			few fine roots	dark grayish bro	wn fine sa	ind	
						few medium				
			10 YR 6/6; 10			distinct mottles				
20	10 YR 6/4		YR 7/2			and streaks	light yellowish be	roum fine s	and	
	10 110 0/4		11/1/2				iigiit yellowisii bi	OVVIT TITLE 3		
						common medium				
-39	10 YR 7/4		10 YR 6/6			distinct mottles	very pale brown			
-80	10 YR 7/3						very pale brown	fine sand		
				. — — —			•			
			-							
	0 0 0 0	<del></del>	Dada a dada a			21	1 5-1 14 14-4-5			
		etion, RM	=Reduced Matrix, (	CS=Covered or Coated Sa	ind Grains.	<sup>2</sup> Location: PL=Pore				-
	il Indicators:						Indicators for Pro			ls ":
_Histol	(A1)			Polyvalue Below Surf.	ace (S8) (LRR	S, T, U)	1 cm Muck (a9	) (LRR O	)	
Histic	Epidon (A2)			Thin Dark Surface (S			2 cm Muck (A	10) (LRR	S1	
	Histic (A3)			Loamy Mucky Minera			Reduced Verti			0A 150A B)
	• •									
	gen Sulfide (A4)			Loamy Gleyed Matrix	(F2)		Piedmont Floo			
	ied Layers (A5)			Depleted Matrix (F3)	.=		Anomalous Br		y Soils (F20	)
_Organ	nic Bodies (A6) (LRR P	P, T, U)		Redox Dark Surface	(F6)		(MLRA 153B	1)		
5 cm	Mucky Mineral (A7) (LF	DD D T II	1	Depleted Dark Surface	e (F7)		Red Parent Ma	aterial (TF:	2)	
			,	<del></del> ·			<del></del>		•	100 T III
_Muck	Presence (A8) (LRR I	U)		Redox Depressions (	F8)		Very Shallow [	Jark Suna	ce (TF12) (	LKK I, U)
1 cm	Muck (A9) (LRR P,T)			Marl (F10) (LRR U)			Other (Explain	in Remarl	ks)	
				D1.1.1.0	45 454 BA 454					
_Deple	ted Below Dark Surfac	e (A11)		Depleted Orchric (F1	1) (MLRA 151	)				
_Thick	Dark Surface (A12)			Iron-Manganese Mas	ses (F12) (LR	R O, P,T)	31			
Coool	Prairie Redox (A16) (f	MI DA 4E	0.63	Umbric Surface (F13)	(I DD D T II		Indicators of hydro			
_Coasi	Prairie Redox (A16) (I	VILKA 15	UA)	Offibric Surface (F15)	(LINK F, I, O		hydrology must be	present, u	nless distur	bed or
Sandy	Mucky Mineral (S1) (L	LRR O. S	)	Delta Orchric (F17) (I	MLRA 151)		problematic.			
	Gleyed Matrix (S4)		•	Reduced Vertic (F18)	/MI DA 150A	150R)				
					•	•				
	Redox (S5)			Piedmont Floodplain		•				
				Anomalous Bright Loa	amy Soils (F20	) (MLRA 149A, 153C	. 153D)			
_Stripp	ed Matrix (S6)						, ,			
		S. T. U)					, ,			
Dark \$	Surface (S7) (LRR P, S					1				,
_Dark S	Surface (S7) (LRR P, S e Layer (If observed):						, , , , , ,	-		,
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:									
_Dark S	Surface (S7) (LRR P, S e Layer (If observed):					Hydric Soil Presen		N	lo	-•
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		_ ✓ _ N	lo	, _••
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		_ ✓ _ N	lo	·
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	lo	, ·
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		<u>√</u> N	lo	·
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		<u>√</u> N	lo	·
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	lo	·
_Dark S strictiv	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		<u> </u>	lo	·
_Dark \$	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	lo	-
_Dark \$	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	lo	<del>.</del>
_Dark \$	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	lo	
_Dark \$	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	ю	·
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	lo	
_Dark \$	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		<u> </u>	lo	<b>_</b>
_Dark \$	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		_ ✓ _ N	lo	
_Dark S strictiv	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		<u> </u>		
_Dark \$	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	lo	
Dark S trictiv	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N		
_Dark \$	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N		
_Dark \$	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	ю	
_Dark \$	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	io	
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N		·
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	0	
Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	io	
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ _ N		
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	0	•
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N		
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ _ N	0	-
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N	0	•
_Dark S	Surface (S7) (LRR P, S e Layer (If observed): Type:					Hydric Soil Presen		✓ N		-

Project/Site: Levy Baseload Transmission Progra	ım, LCR	City/County: Citrus		_Sampling Date:_	11/8/09
Applicant/Owner: Progress Energy Florida, Inc.		State: FL Sampling Point: BE			BE
Investigator(s): Stacy Rizzo, Tony Davanzo		_Section, Township, Range	35 17S 16E		
Landform (hillslope, terrace, etc.): N/A	<u>\</u>	Local relief (concave, conv	/ex, none): <u>none</u>	SI	ope (%):
Subregion (LRR or MLRA): LRR U	Lat: 28,95985	53 Long: <u>-82.6</u> 6	30182	Da	atum: WGS84
Soil Map Unit Name: Boca fine sand			NWI classification:	: <u>NA</u>	
Are climatic / hydrologic conditions on the site typ	pical for this time of year?	Yes <u></u> ✓	_ No	(If no, explain in	Remarks)
Are Vegetation, Soil,	or Hydrology		Are circumstances		esNo
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain	any answers in R	≀emarks)
SUMMARY OF FINDINGS - Attach sit	te map showing sampli	ing point locations, t	ransects, impo	rtant features	s, etc.
Hydrophytic Vegetation Present?	YesNo				
Hydric Soil Present?	YesNo	Is the Sampled Area w	ithin a Wetland?	Yes <u>√</u> No	o
Wetland Hydrology Present?	Yes ✓ No	<u></u>			
Remarks:					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of to	wo required)
Primary Indicators (minimum of one is required; c	heck all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (	(B9)	Sparsely Veg	getated Concave	Surface (B8)
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)	
Saturation (A3)	Mart Deposits (B15) (LR	RR U)	R U)Moss Trim Lines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor (	(C1)	Dry-Season	Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)Crayfish Burrows (C8)			
Drift Deposits (B3)	Presence of Reduced In	on (C4)	Saturation Vi	isible on Aerial Im	agery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction is		· · · · · · · · · · · · · · · · · · ·	Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		•	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)			FAC Neutral		
Field Observations:	, ,		T		
Surface Water Present?	Yes No <u>✓</u>	_ Depth (inches):			
Water Table Present?	Yes No✓		1		
Saturation Present?	Yes No		Wetland		
(includes capillary fringe)		_ Dopai (mones)	Hydrology Present?	Yes <u>/</u> No	•
Describe Recorded Data (stream gauge, monitori	ing well, aerial photos, previous	s inspections), if available:	Flesent:	169 - 140	<u>,                                    </u>
, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,			
0					
Remarks:					
1					

VEGETATION - Use scientific na	mes of plants				Sampling Point:	<u>BE</u>
				Dominance Test Worksh	neet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			
1.				Number of Dominant Spe	n	(A)
2.				That Are OBL, FACW, or	FAC:	
3. 4.				Total Number of Dominan Species Across All Strata:	· h	(B)
5.	·		· <del></del>	Percent of Dominant Spec		
6.	-	***************************************		That Are OBL, FACW, or	100 00	(A/B)
7.	· ————		·	<del>+</del>		
7.			· ——	Prevalance Index works		
	0	= Total Cov	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	_
1. Salix spp.	10	yes	FACW	FACW species	x2=	
Diospyros virginiana	10	yes	FAC	FAC species	x3=	
3.	·			FACU species	x4=	_
4.	· ——			UPL species	x5=	
	· ——			† ' —		<b>–</b> ,5)
5.				Column Totals:	(A)	(B)
6.				1		
7.				Prevalance Index = E	3/A =	
	20	= Total Cov	er	Hydrophytic Vegetation	Indicators:	
Shrub Stratum (Plot size:	_)			✓ Dominance Test is	50%	
Ilex cassine	2	yes	FACW	Prevalence Index i	s <3 N <sup>1</sup>	
2.	· <del></del>		171011	<del>                                       </del>	phytic Vegetation <sup>1</sup> (Ex	nlain)
3.				Floblematic Hydro	phytic vegetation (Ex	piairij
4.	<del></del>			Indicators of hydric soil a	nd wetland hydrology :	muet
5.	· ———			be present, unless disturb	, .,	nust
6.				Definitions of Vegetation		
7.				Deminations of Vegetation	ii Otiata.	
•		= Total Cov	· <del></del>		dia	
Harb Otastana (Distrata)	2	- Total Cov	ы	Tree- Woody plants, exclude approximately 20 ft (6m) or		(7.6
Herb Stratum (Plot size:)	00		ODI	cm) or larger in diameter at	•	. (7.0
1. Cladium spp.	30	yes	FAC	4 ′ -		
Erianthus spp.     Eustachys glauca	10	yes	FACW	Sapling- Woody plants, ex approximately 20 ft (6m) or		than 2
Hyptis alata	5	yes no	OBL	in. (7.6 cm) DBH.	more in neight and less	s man 5
5. Lobelia spp.	5	no	OBL	Shrub- Woody plants, excl	uding woody vines	
6. Dichromena spp.	5	no	FACW	approximately 3 to 20 ft (1		
7. Setaria spp.	5	no	FAC	Herb- All herbaceous (non-		ı
8. Hydrocotyle spp.	5	no	OBL	herbaceous vines, regardle		
9. Spilanthes spp.	5	no	FACW	plants, except woody vines	, less than approximatel	y 3 ft (1
10. Conoclium coelstinum	5	no	FAC	m) in height.		
11.				Woody vine- All woody vin	es, regardless of height	
12.		-		1		
	85	= Total Cov	er	†		
   Woody Vine Stratum (Plot size:	,	rotal cov	01			
Mikania scandens		yes	FACW			
2	· <del></del> -		TACV	†		
2. 3.			·			
4.		-		Hydrophytic		
5.				Vegetation Present?	Yes ✓ No	
	2	= Total Cov		1 - oge maon i leaent!		
Remarks: (If observed, list morph			<u>cı</u>	L		
· · · · · · · · · · · · · · · · · · ·		•				
Percent cover estimates based or	o meandenna s	survey of the l	orozaet coi	HITHUNITY.		

County/soil:	Citrus-	Boca
SOIL		

SOIL							Sampling Point:BE
Profile Des	scription: (Describe	to the de	oth needed to doc	ument the indica	ator or confirm the ab	sence of indicators.)	
Depth	Matrix			Redox Feature			
(inches)	Color (moist)	%	Color (moist)		pe' Loc²	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1			few fine roots	dark grayish brown fine sand
İ						few medium	
	40.40.044		10 YR 6/6; 10			distinct mottles	
7-20	10 YR 6/4		YR 7/2			and streaks	light yellowish brown fine sand
	10.10.711					common medium	
20-39	10 YR 7/4		10 YR 6/6			distinct mottles	very pale brown fine sand
39-80	10 YR 7/3						very pale brown fine sand
L							
ļ							
	Concentration, D=Depl	etion, RM	=Reduced Matrix, (	CS=Covered or C	oated Sand Grains.	<sup>2</sup> Location: PL=Pore	
	il Indicators:						ndicators for Problematic Hydric Soils 3:
Histol (	. ,				elow Surface (S8) (LRR		1 cm Muck (a9) (LRR O)
	Epidon (A2)				urface (S9) <b>(LRR S, T, I</b>		2 cm Muck (A10) (LRR S)
_	Histic (A3)				y Mineral (F1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				ed Matrix (F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)			Depleted Ma		-	Anomalous Bright Loamy Soils (F20)
Organi	ic Bodies (A6) (LRR P	r, I, U)		Redox Dark			(MLRA 153B)
5 cm N	Mucky Mineral (A7) (LF	RR P,T,U	)	Depleted Da	rk Surface (F7)		Red Parent Material (TF2)
Muck	Presence (A8) (LRR I	J)		Redox Depre	essions (F8)	_	Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm A	Muck (A9) (LRR P,T)			Marl (F10) (L	-RR U)		Other (Explain in Remarks)
1			,		•		
	ed Below Dark Surfac	æ (A11)			chric (F11) (MLRA 151)		
Thick [	Dark Surface (A12)			lron-Mangan	ese Masses (F12) (LRI	RO, P,T)	Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (I	MLRA 15	DA)	Umbric Surfa	ace (F13) (LRR P, T, U)		nydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (L	DD A S		Delta Orchrin	c (F17) (MLRA 151)		problematic.
	Gleyed Matrix (S4)	LINK O, 3,	'		rtic (F18) (MLRA 150A,		
	Redox (S5)				oodplain Soils (F19) (MI	•	
	, ,					,	450D)
	ed Matrix (S6)			Ariomalous c	Bright Loamy Soils (F20	) (WILKA 149A, 153C)	, 1930)
	Surface (S7) (LRR P, S						
Restrictive	E Layer (If observed):	:					
1	Туре:						
1	Depth (inches):					Hydric Soil Presen	t? Yes <u> </u>
Remarks:							
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1							
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Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date: 11/8/09			
Applicant/Owner: Progress Energy Florida, Inc.		State:FL	•	Sampling Point: BF			
Investigator(s): Stacy Rizzo, Tony Davanzo		Section, Township, Range: 35 17S 16E					
Landform (hillslope, terrace, etc.): N/A	\	Local relief (concave, convex, none): Slope (%):					
Subregion (LRR or MLRA): LRR U	Lat: 28.95984	45 Long: <u>-82.6</u>	55275	Datum: WGS84			
Soil Map Unit Name: Boca fine sand			NWI classification	: <u>NA</u>			
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes	_ No	(If no, explain in Remarks)			
Are Vegetation, Soil,	or Hydrology			s normal? Yes <u>√</u> No			
Are Vegetation, Soil,	or Hydrology	_ naturally problematic?	(If needed, explain	any answers in Remarks)			
SUMMARY OF FINDINGS - Attach si	te map showing sampl	ing point locations, t	transects, impo	ortant features, etc.			
Hydrophytic Vegetation Present?	YesNo						
Hydric Soil Present?	Hydric Soil Present? Yes <u>✓</u> No			Yes No			
Wetland Hydrology Present?	Yes No						
Remarks:							
LIVEROL GOV							
HYDROLOGY			Casandan, Indiant	are (minimum of two required)			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; of	shock all that analy)			ors (minimum of two required)			
	Water-Stained Leaves	(DO)	Surface Soil	egetated Concave Surface (B8)			
Surface Water (A1)	Aquatic Fauna (B13)	(69)		Drainage Patterns (B10)			
High Water Table (A2)		DD 11)		• •			
✓ Saturation (A3)	Marl Deposits (B15) (LI	•	Moss Trim L	• •			
Water Marks (B1)	Hydrogen Sulfide Odor			Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres	-	Crayfish Bur	• •			
Drift Deposits (B3)	Presence of Reduced li	•	fisible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Recent Iron Reduction	, ,	Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7	•	uitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)FAC Neutral Test (D5)					
Field Observations:	Ala Z						
Surface Water Present?	Yes No		-				
Water Table Present?	Yes No		- Wetland				
Saturation Present?	Yes No	_ Depth (inches):0-12	Hydrology				
(includes capillary fringe)			Present?	Yes No			
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:					
Remarks:							
	•						
1							
				ļ			
				•			

VEGETATION - Use scientific na	mes of plants				Sampling Point:	BF
				Dominance Test Worksho	eet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status	N	!	
<u>1.</u> 2.				Number of Dominant Spec	n	(A)
3.				That Are OBL, FACW, or F Total Number of Dominant		
4.		-		Species Across All Strata:	<u>6</u>	(B)
5.	· ——			Percent of Dominant Speci	ios.	
6.				That Are OBL, FACW, or F	100.00	(A/B)
7.				Prevalance Index worksh		
7.		- Total Cau		-		
		= Total Cov	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)		_	OBL species	x1=	_
1. Salix spp.	10	yes	FACW	FACW species	x2=	
Diospyros virginiana	10	yes	FAC	FAC species	x3=	
3.				FACU species	x4=	-
4.	•			UPL species	x5=	
5.				Column Totals:	(A)	— (B)
6.			•			_ `-'
7.	<del></del>			Brownlance Index = P.	/A -	
<u> </u>				Prevalance Index = B		
	20	= Total Cov	er	Hydrophytic Vegetation I		
Shrub Stratum (Plot size:	)			✓ Dominance Test is	50%	
Ilex cassine	2	yes	FACW	Prevalence Index is	≤3.0 <sup>1</sup>	
2.				Problematic Hydrop	hytic Vegetation <sup>1</sup> (Ex	plain)
3.				<u></u>		
4.			_	Indicators of hydric soil an		must
5.				be present, unless disturbe	ed or problematic.	
6.				Definitions of Vegetation	Strata:	
7.				]		
	2	= Total Cov	er	Tree- Woody plants, excludi	ng woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or i	•	. (7.6
Cladium spp.	30	yes	OBL	cm) or larger in diameter at	breast height (DBH).	
2. Erianthus spp.	10	yes	FAC	Sapling- Woody plants, exc	luding woody vines,	
Eustachys glauca	10	yes	FACW	approximately 20 ft (6m) or i	more in height and less	than 3
4. Hyptis alata	5	no	OBL	in. (7.6 cm) DBH.		
5. Lobelia spp.	5	no	OBL	Shrub- Woody plants, exclu		
6. Dichromena spp.	5	no	FACW	approximately 3 to 20 ft (1 to		
7. Setaria spp.	5	no	FAC	Herb- All herbaceous (non-		
8. Hydrocotyle spp.	- 5	no	OBL	herbaceous vines, regardles		-
Spilanthes spp.     Conoclium coelstinum	- <u>5</u> 5	no	FACW FAC	plants, except woody vines, m) in height.	iess trait approximater	y 3 it ( i
		no	FAC	-  ′	a recordings of baiable	
11.				Woody vine- All woody vine	s, regardless of neight	•
12.						
	85	= Total Cov	er			
Woody Vine Stratum (Plot size:	)					
Mikania scandens	2	yes	FACW			
2.						
3.				4		
4.				Hydrophytic		
5.				Vegetation Present?	YesNo	<del></del>
	2	= Total Cov	ver			
Remarks: (If observed, list morph	ological adapta	ations below).		<u> </u>		
Percent cover estimates based o	n meandering s	survey of the	broader co	mmunity.		

County/soil: Citrus- Boca
County/son. Citrus- Boca
SOIL

OIL							Sampling Point:
rofile De epth	scription: (Describe	to the de	pth needed to doc		or confirm the al	sence of indicators.	)
epth nches)	Matrix Color (moist)	%	Color (moist)	Redox Features  % Type	Loc²	Texture	Remarks
7	10 YR 4/2		10 YR 3/1	-% Type		few fine roots	dark grayish brown fine sand
	10 11( 4/2	· ——	10 111 0/1			few medium	dark grayish brown inc sand
			10 YR 6/6; 10			distinct mottles	
20	10 YR 6/4		YR 7/2			and streaks	light yellowish brown fine sand
						common medium	
-39	10 YR 7/4		10 YR 6/6			distinct mottles	very pale brown fine sand
9-80	10 YR 7/3						very pale brown fine sand
							, F
							<u> </u>
				<del></del>			
vpe: C=	Concentration, D=Dep	letion. RM	1=Reduced Matrix.	CS=Covered or Coate	d Sand Grains	2Location: Pt =Por	e Lining, M=Matrix.
	il Indicators:	100011, 1 (11	, , , caaooa mann,	oc corona on coars	d dana dramo.	LOCATION: 1 L 1 OF	Indicators for Problematic Hydric Soils 1:
Histol				Polyvalue Below	Surface (S8) (LRF	R S. T. U)	1 cm Muck (a9) (LRR O)
	Epidon (A2)				e (S9) (LRR S, T,		2 cm Muck (A10) (LRR S)
	Histic (A3)				neral (F1) (LRR O		Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)			Loamy Gleyed M	, , ,	,	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)			Depleted Matrix (			Anomalous Bright Loamy Soils (F20)
	ic Bodies (A6) (LRR F	P, T, U)		Redox Dark Surfa			(MLRA 153B)
	Mucky Mineral (A7) (L			Depleted Dark St	urface (E7)		Red Parent Material (TF2)
			•	Redox Depression			
	Presence (A8) (LRR	U)					Very Shallow Dark Surface (TF12) (LRR T, U)
_1 cm	Muck (A9) (LRR P,T)			Marl (F10) (LRR	U)		Other (Explain in Remarks)
Deple	ted Below Dark Surfac	æ (A11)		Depleted Orchric	(F11) (MLRA 151	)	
	Dark Surface (A12)	,	•	Iron-Manganese	Masses (F12) (LR	R O. P.T)	•
		MI DA 45		_	F13) (LRR P, T, L		<sup>3</sup> Indicators of hydrophytic vegetation and wetland
_Coast	Prairie Redox (A16) (	MILKA 15	UA)	<del></del>		•	hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (	LRR O, S	)	Delta Orchric (F1	7) (MLRA 151)		problematic.
Sandy	Gleyed Matrix (S4)			Reduced Vertic (	F18) (MLRA 150A	, 150B)	
Sandy	Redox (S5)			Piedmont Floodp	lain Soils (F19) (M	LRA 149A)	
Stripp	ed Matrix (S6)			Anomalous Brigh	t Loamy Soils (F2)	D) (MLRA 149A, 1530	C, 153D)
Dark S	Surface (S7) (LRR P.	S. T. U)					
	e Layer (If observed)					1	
	Type:	•					
	Depth (inches):					Hydric Soil Preser	nt? Yes ✓ No .
marks:	Deptit (inches).					Invalid Son Freser	iti ies <u> </u>
illains.							
				•			

Project/Site: Levy Baseload Transmission Progra	am, LCR	City/County: Citrus		_Sampling Date:_	11/8/09		
Applicant/Owner: Progress Energy Florida, Inc.		State: FL Sampling			BG		
Investigator(s): Stacy Rizzo, Tony Davanzo		Section, Township, Range: <u>35 17S 16E</u>					
Landform (hillslope, terrace, etc.): N/A	\	Local relief (concave, convex, none): none Slope (%):					
Subregion (LRR or MLRA): LRR U	Lat: 28.9598	37 Long: -82.6	53510	Dat	um: <u>WGS84</u>		
Soil Map Unit Name: Boca fine sand			NWI classification	ı: <u>NA</u>			
Are climatic / hydrologic conditions on the site typ	pical for this time of year?	Yes <u>✓</u>	_ No	_ (If no, explain in F	Remarks)		
Are Vegetation, Soil,	or Hydrology		Are circumstance		s∕No		
Are Vegetation, Soil,	or Hydrology	_ naturally problematic?	(If needed, explain	n any answers in Re	emarks)		
SUMMARY OF FINDINGS - Attach si	te map showing sampl	ing point locations, t	ransects, impo	ortant features,	, etc.		
Hydrophytic Vegetation Present?	Yes/No						
Hydric Soil Present?	Yes No	Is the Sampled Area w	vithin a Wetland?	Yes <u></u> ✓ No			
Wetland Hydrology Present?	Yes/No						
Remarks:		•		H.			
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicat	lors (minimum of tw	o required)		
Primary Indicators (minimum of one is required; of	check all that apply)		Cracks (B6)				
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Ve	getated Concave S	urface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15) (LI	RR U)	Moss Trim L	ines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	•	Dry-Season	Water Table (C2)			
Sediment Deposits (B2)		• •	on Living Roots (C3)Crayfish Burrows (C8)				
Drift Deposits (B3)	Presence of Reduced I				nery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction				g0.) (00)		
Iron Deposits (B5)	Thin Muck Surface (C7						
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	· · · · · · · · · · · · · · · · · · ·					
Field Observations:	otto (Explain III Notice		T TO Neutra	1 (03)			
Surface Water Present?	Yes No	Donth (inches):					
Water Table Present?	Yes No		-				
			- Wetland				
Saturation Present?	Yes No	_ Depth (inches):0-12	Hydrology				
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ing wall, porial photos, provious	n inconstions) if qualichle:	Present?	Yes <u>✓ No</u>			
Describe Recorded Data (stream gauge, monitor	ing well, aenai photos, previou	s irispections), ii available.					
Remarks:							
•							
I							

VEGETATION - Use scientific na	mes of plants			Sa	ampling Point:	BG
				Dominance Test Workshee	et:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status			•
1. 2. 3.				Number of Dominant Specie	n	(A)
2.				That Are OBL, FACW, or FA	/C: -	
3.	- ——			Total Number of Dominant	<u>6</u>	(B)
<b>4</b> . <b>5</b> .				Species Across All Strata:	_	
				Percent of Dominant Specie	11111111	(A/B)
6. 7.				That Are OBL, FACW, or FA		
7.				Prevalance Index workshe	et:	
	0	= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	
1. Salix spp.	10	yes	FACW	FACW species	x2=	
Diospyros virginiana	10	yes	FAC	FAC species	x3=	_
3.				FACU species	x4=	
4.	<del></del>			· · · · · · · · · · · · · · · · · · ·		_
4.				UPL species	x5=	(D)
5.				Column Totals:	(A)	(B)
6.				1		
7.				Prevalance Index = B/A	\ =	
	20	= Total Cove	er	Hydrophytic Vegetation In	dicators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is 50	0%	
***************************************	=- <sup>/</sup> 2	V00	FACW	Prevalence Index is s	_	
		yes	FACVV	<del>                                       </del>		
2. 3.				Problematic Hydroph	ytic vegetation (Ex	piain)
4.	<del>-</del>			l	Luctional budgeton	<b>-</b>
5.				Indicators of hydric soil and be present, unless disturbed		must
				<del></del>		
6.				Definitions of Vegetation S	Strata:	
7.				4		
	2	= Total Cove	er	Tree- Woody plants, excluding	•	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or m	•	1. (7.6
Cladium spp.	30	yes	OBL	cm) or larger in diameter at br	- ' '	
<ol><li>Erianthus spp.</li></ol>	10	yes	FAC	Sapling- Woody plants, exclu	•	
Eustachys glauca	10	yes	FACW	approximately 20 ft (6m) or m	ore in height and less	s than 3
4. Hyptis alata		no	OBL	in. (7.6 cm) DBH.		
5. Lobelia spp.		no	OBL	Shrub- Woody plants, exclud		
6. Dichromena spp.	_ 5	no	FACW	approximately 3 to 20 ft (1 to 6		
7. Setaria spp.		no	FAC	Herb- All herbaceous (non-wo		
8. Hydrocotyle spp.	5	no	OBL	herbaceous vines, regardless plants, except woody vines, le		
9. Spilanthes spp.	- <u>5</u> 5	no	FACW FAC	m) in height.	ss triati approximate	iy 3 it (i
10. Conoclium coelstinum		no	FAC	4 ' *		
11.				Woody vine- All woody vines	, regardless of neight	L.
12.				4		
	85	= Total Cove	er			
Woody Vine Stratum (Plot size:_						
Mikania scandens	2	yes	FACW	}		
2.						
3.						
4.				Hydrophytic		
5.				1	Yes <u> </u>	
		= Total Cove	er	1		_
Remarks: (If observed, list morph						
Percent cover estimates based of	•	•	roador co	mmunity		
reicent cover estimates based o	ni meanuenng :	ourvey or the t	noauei co	mmumy.		

OIL								Sampling Point:
	scription: (Describe	to the de	pth needed to doc		e indicator or Features	confirm the ab	sence of indicator	s.)
epth nches)	Matrix Color (moist)	%	Color (moist)	%	Type	Loc²	Texture	Remarks
-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
<del></del>		—					few medium	
			10 YR 6/6; 10				distinct mottles	
-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
							common medium	
0-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
9-80	10 YR 7/3	=						very pale brown fine sand
								<del></del>
	Concentration, D=Dep	etion, RN	1=Reduced Matrix,	CS=Cove	ed or Coated S	Sand Grains.	*Location: PL=Po	ore Lining, M=Matrix.
•	il Indicators:			D-1-	-t - D-t- O	(CO) (LDE		Indicators for Problematic Hydric Soils 3:
Histol						rface (S8) (LRF		1 cm Muck (a9) (LRR O) 2 cm Muck (A10) (LRR S)
	Epidon (A2) Histic (A3)					S9) (LRR S, T, al (F1) (LRR O	•	Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				ny Mucky Militer ny Gleved Matri		,	Piedmont Floodplain Soils (F19) (LRR P. S. T)
	ied Layers (A5)				eted Matrix (F3			Anomalous Bright Loamy Soils (F20)
	ic Bodies (A6) (LRR F	, T, U)			x Dark Surface			(MLRA 153B)
 5 cm l	Mucky Mineral (A7) (L	DD D T I	n	Deple	eted Dark Surfa	ace (F7)		Red Parent Material (TF2)
	Presence (A8) (LRR		•		x Depressions	• •		Very Shallow Dark Surface (TF12) (LRR T, U)
	, , ,	٠,			(F10) (LRR U)	(, 0)		Other (Explain in Remarks)
	Muck (A9) (LRR P,T)							Other (Explain in Nemarks)
	ted Below Dark Surfac	e (A11)			,	11) (MLRA 151	•	
Thick	Dark Surface (A12)			!ron-l	Manganese Ma	isses (F12) (LR	R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (	MLRA 15	0A)	Umb	ric Surface (F1	3) (LRR P, T, U	)	hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (I	RR O. S	3	Delta	Orchric (F17)	(MLRA 151)		problematic.
′	Gleyed Matrix (S4)		,	_		B) (MLRA 150A	. 150B)	
	Redox (S5)				,	Soils (F19) (M		
	ed Matrix (S6)						) (MLRA 149A, 153	3C, 153D)
	Surface (S7) (LRR P,	S T 11)			_			•
	e Layer (If observed)						1	
	Type:	•						
	Depth (inches):						Hydric Soil Pres	ent? Yes ✓ No .
Remarks:	Bopar (meneo):						1.,,	
torriarito.								
								•
								•

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date:	11/8/09		
Applicant/Owner: Progress Energy Florida, Inc.		State: FL		Sampling Point:	ВН		
Investigator(s): Stacy Rizzo, Tony Davanzo		_Section, Township, Range	: 35 17S 16E				
Landform (hillslope, terrace, etc.):N/A		Local relief (concave, convex, none): none			lope (%):		
Subregion (LRR or MLRA): LRR U		28.960046 Long:82.654719 Datum:					
Soil Map Unit Name:Boca fine sand			NWI classification:				
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes✓	_ No	(If no, explain in	Remarks)		
	or Hydrology		Are circumstances		esNo		
	or Hydrology		(If needed, explain	any answers in F	Remarks)		
SUMMARY OF FINDINGS - Attach sit				•	•		
Hydrophytic Vegetation Present?	Yes✓No						
Hydric Soil Present?	YesNo	Is the Sampled Area v	vithin a Wetland?	Yes✓N	o		
Wetland Hydrology Present?	Yes✓No	1			·		
Remarks:		<b>-1</b>					
HYDROLOGY							
Wetland Hydrology Indicators:		<del>, , ,</del>	Secondary Indicate	ors (minimum of t	wo required)		
Primary Indicators (minimum of one is required; of	heck all that annly)		Surface Soil				
Surface Water (A1)	Water-Stained Leaves (	R9)	· · · · · · · · · · · · · · · · · · ·	y Vegetated Concave Surface (B8)			
High Water Table (A2)	Aquatic Fauna (B13)	53)		inage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15) (LR	PP III	Moss Trim Li				
Water Marks (B1)	Hydrogen Sulfide Odor						
` '	<del></del>	•		Water Table (C2)	,		
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Burr		(00)		
Drift Deposits (B3)	Presence of Reduced In	• •		isible on Aerial Im	nagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction i	, ,	Geomorphic				
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aqui	• •			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remai	rks)	FAC Neutral	Test (D5)			
Field Observations:	No. C						
Surface Water Present?	Yes No		- <b>i</b>				
Water Table Present?	Yes No		Wetland				
Saturation Present?	Yes No	Depth (inches): 0-12	Hydrology				
(includes capillary fringe)			Present?	Yes N	o		
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous	inspections), if available:					
Remarks:							
			,				

VEGETATION - Use scientific na	mes of plants				Sampling Point:	ВН
				Dominance Test Worksh	neet:	
	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status		. •	
<u>1.</u> 2.				Number of Dominant Spec That Are OBL, FACW, or	,	(A)
3.				Total Number of Dominan		
4.		····		Species Across All Strata:	' "	(B)
5.	·			Percent of Dominant Spec	ries	(4/0)
6.				That Are OBL, FACW, or	FAC: 100.00	(A/B)
7.	•			Prevalance Index works	heet:	
		= Total Cove		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	
1.				FACW species	x2=	<del></del>
2.	·			FAC species	x3=	
3.				┥ <i>'</i>		
******		·		FACU species	x4=	
4.				UPL species	x5=	
5.				Column Totals:	(A)	(B)
6.				1		
7.				Prevalance Index = E	3/A =	
	0	= Total Cove	er	Hydrophytic Vegetation	Indicators:	
Shrub Stratum (Plot size:	_)			✓ Dominance Test is	50%	
Ilex cassine	- 5	ves	FACW	Prevalence Index i	s ≤3.0 <sup>1</sup>	
2.				Problematic Hydro	phytic Vegetation <sup>1</sup> (E	xplain)
2. 3.	<del></del>				, ,	. ,
4.				Indicators of hydric soil a	nd wetland hydrology	must
5.				be present, unless disturb	ed or problematic.	
6.				Definitions of Vegetation	n Strata:	
7.						
	5	= Total Cove	r	Tree- Woody plants, exclud	ding woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or		n. (7.6
Cladium spp.	50	yes	OBL	cm) or larger in diameter at	breast height (DBH).	
Fuirena spp.     Andropogon glomeratus	10	no	OBL	Sapling- Woody plants, ex-		
Andropogon glomeratus	10	no	FACW	approximately 20 ft (6m) or	more in height and les	ss than 3
4. Hyptis alata	5	no	OBL	in. (7.6 cm) DBH.		
<ol> <li>Erianthus spp.</li> <li>Lobelia spp.</li> </ol>	5 5	no	FAC OBL	Shrub- Woody plants, exclusion approximately 3 to 20 ft (1 to 20 ft)		
7. Oxypolis spp.	- 5	no	OBL	Herb- All herbaceous (non-	· -	n
8.	- <del> </del>			herbaceous vines, regardle	• • • • • • • • • • • • • • • • • • • •	~
9.				plants, except woody vines,		
10.				m) in height.		
11.				Woody vine- All woody vin	es, regardless of heigl	nt.
12.				]		
	90	= Total Cove	er	1		
Woody Vine Stratum (Plot size:	)					
1.						
2.						
3.						
4.				Hydrophytic		
5.				Vegetation Present?	Yes <u>√</u> No_	
	0	= Total Cove	er			
Remarks: (If observed, list morph	ological adapta	ations below).				
Percent cover estimates based or	n meandering s	survey of the b	roader cor	mmunity.		

	escription: (Describe	to the de	oth needed to doc	ument th	e indicator or	confirm the at	sence of indicators	31		
Depth	Matrix	10 1110 00	pt 1100aua to au		Features	oommin are as	solited of maleutors	,		
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks		
)-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand		
							few medium			
-20	10 YR 6/4		10 YR 6/6; 10 YR 7/2				distinct mottles and streaks	light yellowish brown fine sand		
-20	10 110 0/4		11172				common medium	ight yellowish brown line sand		
0-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand		
9-80	10 YR 7/3							very pale brown fine sand		
ype: C=	Concentration, D=Dep	letion, RM	=Reduced Matrix, (	CS=Cover	ed or Coated S	and Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matrix.		
-	oil Indicators:							Indicators for Problematic Hydric Soils 3:		
Histol	, ,					face (S8) (LRF		1 cm Muck (a9) (LRR O)		
	Epidon (A2)			Thin	Dark Surface (	89) (LRR S, T,	U)	2 cm Muck (A10) (LRR S)		
	Histic (A3)			Loan	y Mucky Miner	al (F1) (LRR O	)	Reduced Vertic (F18) (outside MLRA 150A, B)		
	ogen Sulfide (A4)				y Gleyed Matri			Piedmont Floodplain Soils (F19) (LRR P, S, T)		
	fied Layers (A5)				ted Matrix (F3			Anomalous Bright Loamy Soils (F20)		
Orgar	nic Bodies (A6) (LRR F	P, T, U)		Redo	x Dark Surface	(F6)		(MLRA 153B)		
5 cm	Mucky Mineral (A7) (L	RR P,T,U	) .	Deple	ted Dark Surfa	ce (F7)		Red Parent Material (TF2)		
<u>✓</u> Muck	Presence (A8) (LRR	U)		Redo	x Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)		
1 cm	Muck (A9) (LRR P,T)			Marl	F10) (LRR U)			Other (Explain in Remarks)		
Deple	eted Below Dark Surface	æ (A11)		Deple	ted Orchric (F	11) (MLRA 151	)			
Thick	Dark Surface (A12)			Iron-I	/langanese Ma	sses (F12) (LR	R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland		
Coast	t Prairie Redox (A16) (	MLRA 15	0A) .	Umbi	ic Surface (F1	3) (LRR P, T, U	))	hydrology must be present, unless disturbed or		
Sandy	y Mucky Mineral (S1) (	LRR O, S	) .	Delta	Orchric (F17)	MLRA 151)		problematic.		
Sandy	y Gleyed Matrix (S4)			Redu	ced Vertic (F18	) (MLRA 150A	, 150B)			
Sandy	y Redox (S5)			Piedr	nont Floodplain	Soils (F19) (M	LRA 149A)			
Stripp	ed Matrix (S6)			Anon	alous Bright Lo	amy Soils (F20	D) (MLRA 149A, 153	C, 153D)		
	Surface (S7) (LRR P,									
estrictiv	e Layer (If observed)	:								
	Type:									
	Depth (inches):						Hydric Soil Prese	nt? Yes <u>√</u> No		

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Dat	e: 11/6/09	
Applicant/Owner: Progress Energy Florida, Inc.		State: FL		Sampling Poi	nt: ZA	
Investigator(s): Stacy Rizzo, Tony Davanzo	Karl Bullock	Section, Township, Range: <u>35 17S 16E</u>				
Landform (hillslope, terrace, etc.): N/A	<b>.</b>	Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U	Lat: 28.96054	8 Long: -82.66	34533		Datum: WGS84	
Soil Map Unit Name: Boca fine sand			NWI classification			
Are climatic / hydrologic conditions on the site type	ical for this time of year?	Yes✓	_ No	(If no, explain	in Remarks)	
Are Vegetation, Soil,	or Hydrology		Are circumstance		YesNo	
	or Hydrology		(If needed, explain	n any answers in	n Remarks)	
SUMMARY OF FINDINGS - Attach sit			•	•	· ·	
Hydrophytic Vegetation Present?	,	,		,		
Hydric Soil Present?	is the Sampled Area w	ithin a Wetland?	Yes✓	No		
Wetland Hydrology Present?	1					
Remarks:	Yes No	1				
i						
					•	
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum c	f two required)	
Primary Indicators (minimum of one is required; of	check all that apply)		Surface Soil	l Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (	B9)		egetated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)	20,		atterns (B10)	0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
✓ Saturation (A3)	Mart Deposits (B15) (LF	D III	Moss Trim L			
· ·		-	·		.0)	
Water Marks (B1)	Hydrogen Sulfide Odor			Water Table (C	.2)	
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish bur	, ,		
Drift Deposits (B3)	Presence of Reduced Ir	<del></del>			Imagery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction i	n Tilled Soils (C6)	Geomorphic	ic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aqu	uitard (D3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutra	l Test (D5)		
Field Observations:						
Surface Water Present?	Yes No		.			
Water Table Present?	Yes No	_ Depth (inches):				
Saturation Present?	Yes No	Depth (inches): 0	Wetland Hydrology			
(includes capillary fringe)			Present?	Yes _	No	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	inspections), if available:				
					•	
Remarks:						
					*	

Adapted from U.S. Army Corps of Engineers Atlantic and Gulf Coastal Plain Region- Interim Version

Percent cover estimates based on meandering survey of the broader community.

County/soil: Citrus- Boca	
SOIL	

SOIL								Sampling Point:
Profile De	scription: (Describe	to the de	pth needed to doc	ument th	e indicator or	confirm the ab	sence of indicators.	
Depth	Matrix				Features		•	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	dan grayion brown into cana
			10 VD 6/6: 10					
7 00	40.1/0.0/4		10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2			. <del></del>	and streaks	light yellowish brown fine sand
							common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3	. ——						very pale brown fine sand
								Toty para broth this care
						<del></del>		
¹Type: C=	Concentration, D=Dep	letion, RM	1=Reduced Matrix, (	CS=Cove	red or Coated S	Sand Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.
Hydric Sc	il Indicators:							Indicators for Problematic Hydric Soils 3:
Histol				Pote	value Relow Su	rface (S8) (LRR		1 cm Muck (a9) (LRR O)
	Epidon (A2)							
					•	S9) (LRR S, T,	•	2 cm Muck (A10) (LRR S)
	Histic (A3)			Loan	ny Mucky Miner	ral (F1) (LRR O)	)	Reduced Vertic (F18) (outside MLRA 150A, B)
Hydro	gen Sulfide (A4)			Loan	ny Gleyed Matri	ix (F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratif	ied Layers (A5)			Depl	eted Matrix (F3	)		Anomalous Bright Loamy Soils (F20)
Organ	nic Bodies (A6) (LRR F	P. T. U)		Redo	ox Dark Surface	é (F6)		(MLRA 153B)
							•	
	Mucky Mineral (A7) (L		)		eted Dark Surfa	, ,		Red Parent Material (TF2)
✓Muck	Presence (A8) (LRR	U)		Redo	x Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
	Marie (AO) (LDD D T	•			(F10) (LRR U)			
1 CIII	Muck (A9) (LRR P,T)				(FIO) (ERR O)			Other (Explain in Remarks)
Deple	ted Below Dark Surfac	æ (A11)		Depl	eted Orchric (F	11) (MLRA 151	) ·	
	Dark Surface (A12)	` ′		Iron.	Manganese Ma	sses (F12) (LR	PO PTI	
	, ,				•	. , ,		Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (	MLRA 15	0A)	Umb	ric Surface (F1	3) (LRR P, T, U		hydrology must be present, unless disturbed or
Sond	Mucky Mineral (S1) (	DD 0 6		Delta	Orchric (F17)	(MI DA 151)		problematic.
		LKK U, S	7			•		providing.
Sandy	Gleyed Matrix (S4)					8) (MLRA 150A		
Sandy	Redox (S5)			Pied	mont Floodplair	n Soils (F19) (M	LRA 149A)	
Stripp	ed Matrix (S6)			Anor	nalous Bright Le	oamy Soils (F20	) (MLRA 149A, 153C	. 153D)
					ŭ	, ,	, ,	, -,
	Surface (S7) (LRR P,							
Restrictiv	e Layer (If observed)	:						
	Type:							
	Depth (inches):						Hydric Soil Presen	t? Yes ✓ No .
Remarks:							Triyana com r resen	163 7 100
rtemarks.								
ı								
ı								

Project/Site: Levy Baseload Transmission Progra	ım, LCR	City/County: Citrus		_ Sampling Date	: 11/6/09
Applicant/Owner: Progress Energy Florida, Inc.		State: FL		Sampling Poin	t: <u>ZB</u>
Investigator(s): Karl Bullock		Section, Township, Range	e: <u>35 17S 16E</u>		
Landform (hillslope, terrace, etc.):N/A		Local relief (concave, con			Slope (%):
Subregion (LRR or MLRA): LRR U	Lat: 28.96030	9 Long: <u>-82.6</u>	64244	[	Datum: WGS84
Soil Map Unit Name: Boca fine sand			NWI classification		
Are climatic / hydrologic conditions on the site typ	pical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain i	n Remarks)
Are Vegetation, Soil,	or Hydrology		Are circumstance		/es <u> </u>
Are Vegetation, Soil			(If needed, explain	n any answers in	Remarks)
SUMMARY OF FINDINGS - Attach si				-	•
Hydrophytic Vegetation Present?	YesNo				····· · · · · · · · · · · · · · · · ·
Hydric Soil Present?	Yes✓ No	Is the Sampled Area v	vithin a Wetland?	Yes/	No
Wetland Hydrology Present?	Yes/ No	1			
Remarks:			d.		
			•		
HYDROLOGY	<u></u>	····			
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of	two required)
Primary Indicators (minimum of one is required; of	check all that apply)	`	Surface Soil	Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (	B9)	Sparsely Ve	getated Concave	Surface (B8)
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)	
✓ Saturation (A3)	Marl Deposits (B15) (LR	R U)	Moss Trim L	ines (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor (	(C1)	Dry-Season	Water Table (C2	2)
Sediment Deposits (B2)	Oxidized Rhizospheres of	on Living Roots (C3)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	Presence of Reduced Iro	on (C4)	Saturation V	/isible on Aerial I	magery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction in	n Tilled Soils (C6)	Geomorphic	Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aqu	uitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remar	ks)	FAC Neutra	l Test (D5)	
Field Observations:					
Surface Water Present?	Yes No		_		
Water Table Present?	Yes No	. Depth (inches):	Wetland		
Saturation Present?	Yes No	Depth (inches): 0	Hydrology		
(includes capillary fringe)			Present?	Yes 🗸I	No
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	inspections), if available:			
Remarks:					
	•				

County/soil: Citrus- Boca	
SOIL	

SOIL	ii. Oili da- Bood								Sampling Point: ZE
Profile De	scription: (Describe t	to the de	oth needed to doc			confirm the ab	sence of indicators.)		
Depth	Matrix			Redo	x Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture		Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brow	wn fine sand
							few medium		
			10 YR 6/6; 10				distinct mottles		
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish br	own fine sand
-			<del></del>				common medium		
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown	fine sand
39-80	10 YR 7/3		10				- Contract C	very pale brown	
00 00	10 177.710				-			vory pano brann	inc suit
<b>├</b>									
	·								<del></del>
17	2tt'an DeDani	Steel DA	Dedicard Motein (	~~~~	Coated C	- d C-sine	2tti-ni Di =Dore	1 '-i Mad Antriu	
	Concentration, D=Deple	etion, Kivi	=Reduced Matrix, t	JS=Cove	ered or Coated 5	and Grains.	<sup>2</sup> Location: PL=Pore		
	il Indicators:					- 100 11			blematic Hydric Soils 3:
Histol					yvalue Below Sur			1 cm Muck (a9	
_	Epidon (A2)			_	n Dark Surface (S		,	2 cm Muck (A1	
	Histic (A3)			Loa	ımy Mucky Minera	al (F1) (LRR O)	١ .	Reduced Vertic	c (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				ımy Gleyed Matrix			Piedmont Floor	dplain Soils (F19) (LRR P, S, T)
	fied Layers (A5)				oleted Matrix (F3)			Anomalous Brig	ght Loamy Soils (F20)
Organ	nic Bodies (A6) (LRR P	, T, U)		Rec	dox Dark Surface	(F6)	-	(MLRA 153B)	
5 cm	Mucky Mineral (A7) (LF	DD D T []	1	Der	oleted Dark Surfa	ice (F7)		Red Parent Ma	
			,		dox Depressions	, ,	•		Park Surface (TF12) (LRR T, U)
Muck	Presence (A8) (LRR U	J)			•	(F8)	,		
1 cm !	Muck (A9) (LRR P,T)			Mar	rl (F10) <b>(LRR U)</b>			Other (Explain	in Remarks)
Denle	ted Below Dark Surface	α (Δ11)		Der	pleted Orchric (F1	11\ (MLRA 151)	١		
		c (~ · · ·			n-Manganese Ma:		D		
	Dark Surface (A12)				=		•	Indicators of hydro	phytic vegetation and wetland
Coast	Prairie Redox (A16) (N	MLRA 150	)A)	Um	bric Surface (F13	3) (LRR P, T, U)	)	hydrology must be j	present, unless disturbed or
Sand	y Mucky Mineral (S1) (L	PRO S	١	Del	ta Orchric (F17) (	(MLRA 151)		problematic.	•
		_r. 0, 0,	,		duced Vertic (F18		450D)	•	
	y Gleyed Matrix (S4)				•		•		
	y Redox (S5)				dmont Floodplain				
Stnpp	ed Matrix (S6)			And	malous Bright Lo	amy Soils (F20	) (MLRA 149A, 153C	, 153ບ)	
Dark	Surface (S7) (LRR P, S	S, T, U)							
Restrictiv	e Layer (If observed):						1		
	Type:	•					1		
	Depth (inches):		<del></del>				Hydric Soil Presen	t? Yes	√ No .
Remarks:	Depti (increo).						Intraction Contraction.		
Remains.									
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Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date	11/6/09	
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Poin	t: <u>ZC</u>	
Investigator(s): Karl Bullock		Section, Township, Range				
Landform (hillslope, terrace, etc.):N/A	<u> </u>	Local relief (concave, con-	vex, none): <u>none</u>		Slope (%):	
Subregion (LRR or MLRA): LRR U						
Soil Map Unit Name: Boca fine sand			NWI classification:			
Are climatic / hydrologic conditions on the site type		Yes✓	_ No	(If no, explain i	n Remarks)	
	or Hydrology				/es/_No	
Are Vegetation, Soil,			(If needed, explain			
SUMMARY OF FINDINGS - Attach sit			•	•	•	
Hydrophytic Vegetation Present?	Yes✓No		, , , , , , , , , , , , , , , , , , , ,			
Hydric Soil Present?	Yes ✓ No	Is the Sampled Area v	vithin a Wetland?	Yes/1	No	
Wetland Hydrology Present?	YesNo					
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate		two required)	
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (	B9)	· · · · ·			
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim L	ines (B16)		
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season	n Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	rrows (C8)		
Drift Deposits (B3)	Presence of Reduced Ir	ron (C4)Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Recent Iron Reduction i	n Tilled Soils (C6)	Geomorphic	nic Position (D2) quitard (D3)		
Iron Deposits (B5)	Thin Muck Surface (C7)	ı	Shallow Aqu			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutral	Test (D5)		
Field Observations:						
Surface Water Present?	Yes No/	_ Depth (inches):	_[			
Water Table Present?	Yes No	_ Depth (inches):	<u>. </u>			
Saturation Present?	Yes No		Wetland Hydrology			
(includes capillary fringe)	·····	- ' ' '	Present?	Yes ✓ I	No	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	inspections), if available:	<u> </u>			
Remarks:						
Tresmarks.						

SOIL Sampling Point: ZC	County/soil: Citrus- Boca		
	SOIL	Sampling Point:	<u>ZC</u>

	scription: (Describe t	to the de	pth needed to doc			confirm the ab	sence of indicators.	
Depth	Matrix	- 0/			Features	1 0 02	T	Damada
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture few fine roots	Remarks
0-7	10 YR 4/2		10 YR 3/1					dark grayish brown fine sand
			10 YR 6/6; 10				few medium distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
-	10 11( 0) 1						common medium	ight yourself brown into balls
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
				=				
	Concentration, D=Depl	etion, RM	l=Reduced Matrix, (	CS=Cove	red or Coated S	Sand Grains.	<sup>2</sup> Location: PL=Poi	e Lining, M=Matrix.
	il Indicators:							Indicators for Problematic Hydric Soils 3:
Histol	· ,				value Below Sui			1 cm Muck (a9) (LRR O)
	Epidon (A2)				Dark Surface (			2 cm Muck (A10) (LRR S)
	Histic (A3)				my Mucky Miner		1	Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				my Gleyed Matri			Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5) iic Bodies (A6) (LRR P	T 11			leted Matrix (F3) ox Dark Surface			Anomalous Bright Loamy Soils (F20)
	, , ,					. ,		(MLRA 153B)
	Mucky Mineral (A7) (Lf		)		leted Dark Surfa			Red Parent Material (TF2)
Muck	Presence (A8) (LRR (	J)			ox Depressions			Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm l	Muck (A9) (LRR P,T)			Marl	(F10) (LRR U)			Other (Explain in Remarks)
Deple	ted Below Dark Surfac	e (A11)		Depl	leted Orchric (F	11) (MLRA 151)	)	
Thick	Dark Surface (A12)			Iron-	-Manganese Ma	sses (F12) (LR	R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (	MLRA 15	0A)	Umb	oric Surface (F1:	3) (LRR P. T. U	)	hydrology must be present, unless disturbed or
	, ,,		•		a Orchric (F17)		•	problematic.
	Mucky Mineral (S1) (L	_RR O, S	)				450D)	production.
	Gleyed Matrix (S4)				uced Vertic (F18 Imont Floodplair			
	r Redox (S5) ed Matrix (S6)				•		) (MLRA 149A, 1530	1530)
					naious bright Li	oamy dons (i ze	) (MEION 145A, 1550	, 100D)
	Surface (S7) (LRR P, S							
1	e Layer (If observed):	:						
	Type:						Undria Sail Dragge	ot? You / No
	Depth (inches):		<del></del>				Hydric Soil Preser	nt? Yes <u>√</u> No
Remarks:								
ł								
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Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date: 11/6/09
Applicant/Owner: Progress Energy Florida, Inc.		State:FL		Sampling Point: ZD
Investigator(s): Karl Bullock		Section, Township, Range	: 35 17S 16E	
Landform (hillslope, terrace, etc.):N/A		Local relief (concave, conv	/ex, none): none	Slope (%):
Subregion (LRR or MLRA): LRR U				
Soil Map Unit Name: Boca fine sand				: <u>NA</u>
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in Remarks)
Are Vegetation, Soit,	or Hydrology		Are circumstances	
	or Hydrology		(If needed, explain	any answers in Remarks)
SUMMARY OF FINDINGS - Attach sit			ransects, impo	rtant features, etc.
Hydrophytic Vegetation Present?	Yes✓No			
Hydric Soil Present?	Yes/No	Is the Sampled Area w	rithin a Wetland?	Yes No
Wetland Hydrology Present?	Yes No			
Remarks:	<del></del>			
HYDROLOGY				
Wetland Hydrology Indicators:				ors (minimum of two required)
Primary Indicators (minimum of one is required; of		(50)	Surface Soil	. ,
Surface Water (A1)	Water-Stained Leaves	(B9)		getated Concave Surface (B8)
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	
Saturation (A3)	Marl Deposits (B15) (LF	,	Moss Trim L	
Water Marks (B1)	Hydrogen Sulfide Odor	` '		Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres	• , ,	Crayfish Bur	, ,
Drift Deposits (B3)	Presence of Reduced I	, ,		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction i	• •		Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aqu	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	ırks)	FAC Neutral	Test (D5)
Field Observations:			ł	
Surface Water Present?	Yes No		-	
Water Table Present?	Yes No		Wetland	
Saturation Present?	Yes No	_ Depth (inches): 0	Hydrology	
(includes capillary fringe)	·	- 1	Present?	Yes <u>✓ No</u>
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:		
Remarks:				
				•

County/soil: Citrus- Boca		
SOIL	Sampling Point:	ZD

Depth	escription: (Describe t Matrix	to the de	pui needed to doo		ne indicator or x Features	confirm the abs	sence of indicators.	)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	
			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
							common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
<sup>1</sup> Type: C=	Concentration, D=Dept	etion, RM	=Reduced Matrix,	CS=Cove	ered or Coated S	Sand Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Matrix.
Hydric Sc	oil Indicators:							Indicators for Problematic Hydric Soils 3:
Histol	(A1)			Poly	value Below Su	ırface (S8) (LRR	S, T, U)	1 cm Muck (a9) (LRR O)
Histic	Epidon (A2)			Thir	n Dark Surface (	(S9) (LRR S, T, L	1)	2 cm Muck (A10) (LRR S)
Black	Histic (A3)			Loa	my Mucky Miner	ral (F1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A, B)
Hydro	ogen Sulfide (A4)			Loa	my Gleyed Matr	ix (F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
Strati	fied Layers (A5)			Dep	eleted Matrix (F3	3)		Anomalous Bright Loamy Soils (F20)
Organ	nic Bodies (A6) (LRR P	', T, U)		Rec	lox Dark Surface	e (F6)		(MLRA 153B)
5 cm	Mucky Mineral (A7) (LI	RR P.T.U	)	Dep	eleted Dark Surfa	ace (F7)		Red Parent Material (TF2)
_	Presence (A8) (LRR I		<b>,</b>		lox Depressions			Very Shallow Dark Surface (TF12) (LRR T, U)
	, ,,	٠,			•			
1 cm	Muck (A9) (LRR P,T)				1 (F10) (LRR U)			Other (Explain in Remarks)
Deple	eted Below Dark Surfac	e (A11)		Dep	leted Orchric (F	11) (MLRA 151)		
Thick	Dark Surface (A12)			Iron	-Manganese Ma	asses (F12) (LRF	? O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast	t Prairie Redox (A16) (I	MI RA 15	ιοΔι	Um	bric Surface (F1	3) (LRR P, T, U)		hydrology must be present, unless disturbed or
			•		•			problematic.
_	y Mucky Mineral (S1) (I	RR O, S	5)		ta Orchric (F17)			рговетнаце.
	y Gleyed Matrix (S4)				,	8) (MLRA 150A,	•	
	y Redox (S5)				•	n Soils (F19) (ML	•	
Stripp	ed Matrix (S6)			Ano	malous Bright L	oamy Soils (F20).	(MLRA 149A, 153C	, 153D)
Dark	Surface (S7) (LRR P, S	S, T, U)						
Restrictiv	e Layer (If observed)	:						
1	Type:							
	Depth (inches):						Hydric Soil Presen	t? Yes✓_ No
Remarks:							1-5	
	•							
					•			
I								

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date: 11/6/09
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Point: ZDA
Investigator(s): Stacy Rizzo, Tony Davanzo				,
Landform (hillslope, terrace, etc.):N/A	\	Local relief (concave, con-	vex, none): none	Slope (%):
Subregion (LRR or MLRA): LRR U	Lat: 28.96058	84 Long: <u>-82.6</u>	63517	Datum: WGS8
Soil Map Unit Name: Boca fine sand			NWI classification	: <u>NA</u>
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes✓	_ No	(If no, explain in Remarks)
Are Vegetation, Soil,	or Hydrology		Are circumstances	
Are Vegetation, Soil,	or Hydrology	_ naturally problematic?	(If needed, explain	any answers in Remarks)
<b>SUMMARY OF FINDINGS - Attach sit</b>	te map showing sampl	ing point locations, t	ransects, impo	rtant features, etc.
Hydrophytic Vegetation Present?	Yes No			
Hydric Soil Present?	Yes No	Is the Sampled Area v	vithin a Wetland?	YesNo
Wetland Hydrology Present?	Yes No			
Remarks:				
			,	
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim L	ines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	Presence of Reduced In	ron (C4)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction i	in Tilled Soils (C6)	Geomorphic	Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	)	Shallow Aqu	itard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutral	Test (D5)
Field Observations:				
Surface Water Present?	Yes No	_ Depth (inches):	_	
Water Table Present?	Yes No	_ Depth (inches):		
Saturation Present?	Yes No	_ Depth (inches): 0-12	Wetland Hydrology	
(includes capillary fringe)			Present?	Yes No
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:	•	
Remarks:				
	•			

VEGETATION - Use scientific nar	mes of plants			S	Sampling Point: _	ZDA
				Dominance Test Worksh	eet:	
T 01 1 101 1 1	Absolute %	Dominant	Indicator			
Tree Stratum (Plot size:)	Cover	Species?	Status	Number of Deminent Cons		
<u>1.</u> 2.	· <del></del>			Number of Dominant Spec That Are OBL, FACW, or I		<u>8</u> (A)
3.				Total Number of Dominan		
4.				Species Across All Strata:	-	<u>8</u> (B)
5.				Percent of Dominant Spec	ries	
6.				That Are OBL, FACW, or	100	<u>).00</u> (A/B)
7.				Prevalance Index works		
	0	= Total Cove		Total % Cover of:		u bu:
Sanling Stratum (Plot size:	,	- Total Cove	:1	OBL species	<u>Multipl</u> x1=	<u>y 0y.</u>
Sapling Stratum (Plot size:	/		540	_		
Diospyros virginiana	10	yes	FAC	FACW species	x2=	
Acer rubrum	5	yes	OBL	FAC species	x3=	
3. Salix spp.	5	yes	FACW	FACU species	x4=	
4.				UPL species	x5=	·
5.		· .		Column Totals:	(A)	(B)
6.				]		<u></u>
7.				Prevalance Index = E	3/A =	
	20	= Total Cove		Hydrophytic Vegetation		
Shrub Stratum (Plot size:	)			✓ Dominance Test is		
Cephalanthus occidentalis	<del></del> / 5	yes	OBL	Prevalence Index is		
Ilex cassine	5	yes	FACW	Problematic Hydro		<sup>1</sup> (Explain)
3.			17.000	1 Toblematic Hydrol	priyac vegetation	(Explair)
4.				Indicators of hydric soil a	nd wetland hydro	loav must
5.	·			be present, unless disturb		
6.				Definitions of Vegetation		
7.		***************************************		1		
	10	= Total Cove	·r	Tree- Woody plants, exclud	ling woody vines	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or	•	d 3 in. (7.6
Dichromena spp.	10	yes	FACW	cm) or larger in diameter at	-	•
Spilanthes spp.	10	yes	FACW	Sapling- Woody plants, exc	cludina woody vin	es.
3. Eustachys glauca	5	yes	FACW	approximately 20 ft (6m) or		
4.				in. (7.6 cm) DBH.		
5.				Shrub- Woody plants, exclu		5,
6.				approximately 3 to 20 ft (1 t	o 6 m) in height.	
7.				Herb- All herbaceous (non-	• • •	-
8.				herbaceous vines, regardle		•
9.				plants, except woody vines, m) in height.	iess than approxi	imately 3 ft (1
10.	· <del></del>	<del></del>		<b>-</b>   ′		
11.				Woody vine- All woody vine	es, regardless or i	neignt.
12.				-		
	25	= Total Cove	er .			
Woody Vine Stratum (Plot size:	)					
[1.						
2.						
3.				1		
4.	·			Hydrophytic		
5.				Vegetation Present?	Yes	No
	0	= Total Cove	r	<u> </u>		
Remarks: (If observed, list morpho	ological adapta	itions below).				
Percent cover estimates based or	n meandering s	survey of the b	roader coi	mmunity.		

County/soil: Citrus- Boca			
SOIL		Sampling Point:	70

Profile De Depth	scription: (Describe t Matrix	o the de	pth needed to doc		ne indicator or Features	confirm the ab	sence of indicators.	)		
(inches)	Color (moist)	%	Color (moist)	%	Type'	Loc²	Texture	Remarks		
0-7	10 YR 4/2		10 YR 3/1	_~			few fine roots	dark grayish brown fine sand		
-							few medium			
			10 YR 6/6; 10				distinct mottles	•		
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand		
	10 11( 0/1						common medium	ingrik yellewish brown line sand		
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand		
39-80	10 YR 7/3		10 11( 0/0				uistinet motaes	very pale brown fine sand		
-	10 11( 1/0							very paic brown line sand		
<b></b>										
Type: C=C	Concentration, D=Deple	otion DA	I-Daducad Matrix (	-6-00	rod or Coated S	Sand Grains	<sup>2</sup> Location: PL=Por	Lining M-Matrix		
	il Indicators:	ellors, rely	i-Neduced Iviality, (	,3-COVE	red or Coaled S	Janu Grans.		Indicators for Problematic Hydric Soils 3:		
Histol				Pohr	value Below Sur	daca (SS) (I DD		1 cm Muck (a9) (LRR O)		
_	Epidon (A2)				Dark Surface (S			2 cm Muck (A10) (LRR S)		
	Histic (A3)				ny Mucky Miner	, ,		Reduced Vertic (F18) (outside MLRA 150A, B)		
	gen Sulfide (A4)				ny Gleyed Matri	. , . ,	'	Piedmont Floodplain Soils (F19) (LRR P, S, T)		
	gen Sumbe (A4) ied Lavers (A5)				leted Matrix (F3)					
	ic Bodies (A6) (LRR P	T III			ox Dark Surface			Anomalous Bright Loamy Soils (F20) (MLRA 153B)		
			,							
_	Mucky Mineral (A7) (LF		)		leted Dark Surfa	, ,		Red Parent Material (TF2)		
Muck	Presence (A8) (LRR L	J)			ox Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)		
	Muck (A9) (LRR P,T)				Mari (F10) (LRR U)			Other (Explain in Remarks)		
	ted Below Dark Surface	e (A11)			leted Orchric (F					
Thick	Dark Surface (A12)			Iron-	Manganese Ma	isses (F12) (LR	R O, P,T)	Indicators of hydrophytic vegetation and wetland		
Coast	Prairie Redox (A16) (N	<b>ULRA 15</b>	0A)	Umb	oric Surface (F13	3) (LRR P, T, U		hydrology must be present, unless disturbed or		
Sand	Mucky Mineral (S1) (L	2000	,	Delt	Orchric (F17)	(MI DA 151)	problematic.			
	Gleyed Matrix (S4)	.RR 0, 3	,	Delta Orchric (F17) (MLRA 151) problematic. Reduced Vertic (F18) (MLRA 150A, 150B)						
	Redox (S5)				mont Floodplain					
	ed Matrix (S6)						)) (MLRA 149A, 153C	1520)		
,— ··	' '				naious Bright Lt	uality Suis (F20	) (MILICA 145A, 155C	, 1930)		
	Surface (S7) (LRR P, S						.,			
1	e Layer (If observed):									
	Туре:									
	Depth (inches):						Hydric Soil Presen	<u>t?</u> Yes <u>✓</u> No		
Remarks:										
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Project/Site: Levy Baseload Transmission Progra	m. LCR	City/County: Citrus		Sampling Date:	11/6/09		
Applicant/Owner: Progress Energy Florida, Inc.							
Investigator(s): Karl Bullock		State: FL Sampling Point: ZE  Section, Township, Range: 35 17S 16E					
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, conv			lope (%):		
Subregion (LRR or MLRA): LRR U		· · · · · · · · · · · · · · · · · · ·			atum: WGS84		
Soil Map Unit Name: Boca fine sand		<del></del>		on: NA			
Are climatic / hydrologic conditions on the site typ		Yes✓	_ No	(If no, explain in	Remarks)		
• •	or Hydrology		Are circumstance		es		
Are Vegetation, Soil				ain any answers in F	Remarks)		
SUMMARY OF FINDINGS - Attach sit			•	*	•		
Hydrophytic Vegetation Present?	YesNo						
Hydric Soil Present?	YesNo	Is the Sampled Area w	rithin a Wetland?	Yes/_N	o		
Wetland Hydrology Present?	Yes✓No						
Remarks:	•						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of t	wo required)		
Primary Indicators (minimum of one is required; c	heck all that apply)		Surface Sc	oil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (	(B9)Sparsely Vegetated Concave Surface (B8)					
High Water Table (A2)	Aquatic Fauna (B13)	Drainage Patterns (B10)					
✓ Saturation (A3)	Marl Deposits (B15) (LR	RR U)	Moss Trim Lines (B16)				
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)Crayfish Burrows (C8)						
Drift Deposits (B3)	Presence of Reduced In	on (C4)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Recent Iron Reduction i	n Tilled Soils (C6)	Geomorphic Position (D2)				
Iron Deposits (B5)	<b>—</b>			S7)Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutr	ral Test (D5)			
Field Observations:							
Surface Water Present?	Yes No	_ Depth (inches):					
Water Table Present?	Yes No/	_ Depth (inches):	.l				
Saturation Present?	Yes No	Depth (inches): 0	Wetland Hydrology				
(includes capillary fringe)			Present?	Yes <u>✓</u> N	lo		
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous	inspections), if available:					
Remarks:			<del></del>	<del></del>	<del></del>		

County/soil:	Citrus-	Boca

SOIL							Sampling Point: ZE		
Profile De	scription: (Describe	to the de	pth needed to doo		or confirm the ab	sence of indicators.)			
Depth	Matrix			Redox Features					
(inches)	Color (moist)	%	Color (moist)	% Type	Loc <sup>2</sup>	Texture	Remarks		
0-7	10 YR 4/2		10 YR 3/1			few fine roots	dark grayish brown fine sand		
						few medium			
			10 YR 6/6; 10			distinct mottles			
7-20	10 YR 6/4		YR 7/2			and streaks	light yellowish brown fine sand		
						common medium			
20-39	10 YR 7/4		10 YR 6/6			distinct mottles	very pale brown fine sand		
39-80.	10 YR 7/3					<del></del>	very pale brown fine sand		
					<del></del>				
<b>—</b>						<del></del>			
Type: C=C	Concentration, D=Depl	otion DM	-Dodugod Matrix	C=Covered or Cost	ad Cond Crains	<sup>2</sup> Location: PL=Pore	Linia M-Maria		
	il Indicators:	elloir, rav	-Reduced Matrix,	53-Covered of Coale	eu Sanu Grains.				
Histol				Debaselva Dalass	Surface (S8) (LRR		ndicators for Problematic Hydric Soils 3:		
	Epidon (A2)						1 cm Muck (a9) (LRR O)		
					ce (S9) (LRR S, T,		2 cm Muck (A10) (LRR S)		
	Histic (A3)				ineral (F1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A, B)		
	gen Sulfide (A4)			Loamy Gleyed M			Piedmont Floodplain Soils (F19) (LRR P, S, T)		
	ied Layers (A5)	T 11\		Depleted Matrix		-	Anomalous Bright Loamy Soils (F20)		
	ic Bodies (A6) (LRR P			Redox Dark Surf			(MLRA 153B)		
5 cm l	Mucky Mineral (A7) (Li	RR P,T,U	)	Depleted Dark S	Surface (F7)		Red Parent Material (TF2)		
/_Muck	Presence (A8) (LRR \	J)		Redox Depression	ons (F8)	_	Very Shallow Dark Surface (TF12) (LRR T, U)		
1 cm !	Muck (A9) (LRR P,T)			Mari (F10) (LRR	un	•	Other (Explain in Remarks)		
					•		outer (Explain in Normand)		
	ted Below Dark Surfac	e (A11)			(F11) (MLRA 151)				
Thick	Dark Surface (A12)			Iron-Manganese	Masses (F12) (LRI	R O, P,T)	Indicators of hydrophytic vegetation and wetland		
Coast	Prairie Redox (A16) (I	MLRA 15	DA)	Umbric Surface	(F13) (LRR P, T, U		hydrology must be present, unless disturbed or		
	, ,,		•			nyarology made be present, unless dista			
	Mucky Mineral (S1) (L	-RR O, S	1	Delta Orchric (F	, ,		noblemanc.		
	Gleyed Matrix (S4)				(F18) (MLRA 150A,				
	Redox (S5)				olain Soils (F19) (M	•			
Strippe	ed Matrix (S6)			Anomalous Brigh	nt Loamy Soils (F20	) (MLRA 149A, 153C,	153D)		
Dark S	Surface (S7) (LRR P, S	S. T. U)							
	Layer (If observed):					1			
	Type:					i			
	Depth (inches):					Hydric Soil Present	2 Yes ✓ No		
Remarks:	Depart (inches).					Inyunc Son Present	? Yes <u>√</u> No		
Remarks.									
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Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		_Sampling Date:	11/6/09	
Applicant/Owner: Progress Energy Florida, Inc.						
Investigator(s): Karl Bullock		Section, Township, Range: 35 17S 16E				
Landform (hillslope, terrace, etc.):N/A		Local relief (concave, convex, none): none Slope (%):				
Subregion (LRR or MLRA): LRR U						
Soil Map Unit Name: Boca fine sand			NWI classification			
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes	_ No	(If no, explain in F	Remarks)	
Are Vegetation, Soil,	or Hydrology		Are circumstances		sNo	
	or Hydrology		(If needed, explain	any answers in Re	emarks)	
SUMMARY OF FINDINGS - Attach sit			ransects, impo	rtant features	, etc.	
Hydrophytic Vegetation Present?	YesNo					
Hydric Soil Present?	Yes✓No	Is the Sampled Area w	vithin a Wetland?	Yes <u></u> ✓No		
Wetland Hydrology Present?	YesNo					
HYDROLOGY						
Wetland Hydrology Indicators:				ors (minimum of tw	o required)	
Primary Indicators (minimum of one is required; c			Surface Soil	, ,		
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Vegetated Concave Surface (E			
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)			
Saturation (A3)	Mart Deposits (B15) (LF	-	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	, ,	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Burrows (C8)			
Drift Deposits (B3)	Presence of Reduced I		Saturation Visible on Aerial Imagery (C		igery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction					
Iron Deposits (B5)	Thin Muck Surface (C7	· ——				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	FAC Neutral	Test (D5)		
Field Observations:						
Surface Water Present?	Yes No	· · · · · · · · · · · · · · · · · · ·	-			
Water Table Present?	Yes No		- Wetland			
Saturation Present?	Yes No	Depth (inches):0	Hydrology			
(includes capillary fringe)			Present?	Yes <u>✓ No</u>		
Describe Recorded Data (stream gauge, monitoring Remarks:		s inspections), if available:				

Percent cover estimates based on meandering survey of the broader community.

County/soil:	Citrus-	Boca
SOIL		

SOIL				Sampling Point: ZF
Profile Description: (Describe to the dept	th needed to docume	nt the indicator or confirm the	absence of indicators.)	
Depth Matrix		edox Features		
(inches) Color (moist) %		7 Type Loc²	Texture	Remarks
0-7 10 YR 4/2	10 YR 3/1		few fine roots	dark grayish brown fine sand
			few medium	
	10 YR 6/6; 10		distinct mottles	
7-20 10 YR 6/4	YR 7/2		and streaks	light yellowish brown fine sand
20.00			common medium	
	10 YR 6/6		distinct mottles	very pale brown fine sand
39-80 10 YR 7/3				very pale brown fine sand
Type: C=Concentration, D=Depletion, RM=	Dadward Matrix CO. C		7	
Hydric Soil Indicators:	Reduced Matrix, US=0	covered or Coated Sand Grains.	<sup>2</sup> Location: PL=Pore	<u> </u>
Histol (A1)		Polyvalue Below Surface (S8) (L		ndicators for Problematic Hydric Soils 3:
Histic Epidon (A2)		Thin Dark Surface (S9) (LRR S.		1 cm Muck (a9) (LRR O)
Black Histic (A3)		Loamy Mucky Mineral (F1) (LRR	· ·	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A, B)
Hydrogen Sulfide (A4)		Loamy Gleved Matrix (F2)	٠,	,
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) (LRR T, U)
` ' ' '			-	
1 cm Muck (A9) (LRR P,T)		Marl (F10) (LRR U)	-	Other (Explain in Remarks)
Depleted Below Dark Surface (A11)		Depleted Orchric (F11) (MLRA 1	51)	
Thick Dark Surface (A12)		Iron-Manganese Masses (F12) (	LRR O, P,T) 3	Indicators of hydrophytic year station and walland
Coast Prairie Redox (A16) (MLRA 150A	A)	Umbric Surface (F13) (LRR P, T		Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
Sandy Mucky Mineral (S1) (LRR O, S)	•	Delta Orchric (F17) (MLRA 151)		problematic.
Sandy Gleyed Matrix (S4)	· · · · · · · · · · · · · · · · · · ·	Reduced Vertic (F18) (MLRA 15	•	
Sandy Redox (S5)		Piedmont Floodplain Soils (F19)		
Stripped Matrix (S6)		Anomalous Bright Loamy Soils (I	•	4520)
_ ` ` ` '	<u> </u>	Alomaious Bright Loamy Soils (I	20) (WILKA 149A, 193C,	1530)
Dark Surface (S7) (LRR P, S, T, U)				
Restrictive Layer (If observed):				
Type:			l <u>.</u>	
Depth (inches):			Hydric Soil Present	? Yes <u>√</u> No
Remarks:				
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Project/Site: Levy Baseload Transmission Progra	ım, LCR	City/County: Citrus	_ Sampling Date:11/6/09			
Applicant/Owner: Progress Energy Florida, Inc.		State:FL	Sampling Point: ZG			
Investigator(s): Karl Bullock		Section, Township, Range: 35 17S 16E				
Landform (hillslope, terrace, etc.):N/A	<u> </u>	Local relief (concave, con	vex, none): none	Slope (%):		
Subregion (LRR or MLRA): LRR U	Lat: 28.96054	18 Long:82.6	52236	Datum: WGS84		
Soil Map Unit Name: Boca fine sand			NWI classification	i: <u>NA</u>		
Are climatic / hydrologic conditions on the site type	pical for this time of year?	Yes <u>✓</u>	_ No	_ (If no, explain in Remarks)		
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstance	s normal? YesNo		
Are Vegetation, Soil,	or Hydrology	_ naturally problematic?	(If needed, explain	n any answers in Remarks)		
SUMMARY OF FINDINGS - Attach sit	te map showing sampli	ing point locations, t	transects, impo	ortant features, etc.		
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	Yes No	Is the Sampled Area v	vithin a Wetland?	YesNo		
Wetland Hydrology Present?	YesNo					
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soi	Cracks (B6)		
Surface Water (A1)	Water-Stained Leaves (	(B9)	Sparsely Ve	getated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	atterns (B10)		
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor	•		Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	` ,	Crayfish Bu	• •		
Drift Deposits (B3)	Presence of Reduced Ir		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Recent Iron Reduction i			Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	• •	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema		Shallow Aqu	·		
Field Observations:	Other (Explain in Normal	iks)		i rest (DO)		
	v No V	D-ath (lashan).				
Surface Water Present?	Yes No Yes No					
Water Table Present?			- Wetland			
Saturation Present?	Yes No	_ Depth (inches):u	Hydrology			
(includes capillary fringe)	<del></del>		Present?	Yes No		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:				
Remarks:						
		•				

County/soil: Citrus- Boca
SOIL

SOIL								Sampling Point: Z
Profile De	scription: (Describe	to the de	pth needed to doc	ument t	he indicator or	confirm the ab	sence of indicators.	)
Depth	Matrix			Redo	x Features			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0-7	10 YR 4/2		10 YR 3/1				few fine roots	dark grayish brown fine sand
							few medium	<del> </del>
			10 YR 6/6; 10				distinct mottles	
7-20	10 YR 6/4		YR 7/2				and streaks	light yellowish brown fine sand
1-20	10 110 0/4		11172					light yellowish brown line sand
	40.45 7/4		40.1/0.0/0				common medium	
20-39	10 YR 7/4		10 YR 6/6				distinct mottles	very pale brown fine sand
39-80	10 YR 7/3							very pale brown fine sand
	******							
Tyme: C=	Concentration, D=Depl	etion RM	=Reduced Matrix (	2=C0V	ered or Coated S	and Grains	21 ocation: PI =Por	e Lining, M=Matrix.
	il Indicators:	CHOII, INV	-reduced ividuix,	30-00	sied or Coaled C	and Oranis.		Indicators for Problematic Hydric Soils 3:
				D-1	Delessi Com	f (CO) (I DE		
Histol	· ·				value Below Sur			1 cm Muck (a9) (LRR O)
	Epidon (A2)				n Dark Surface (S			2 cm Muck (A10) (LRR S)
Black	Histic (A3)			Loa	my Mucky Miner	al (F1) (LRR O)	) .	Reduced Vertic (F18) (outside MLRA 150A, B)
Hydro	gen Sulfide (A4)			Loa	my Gleyed Matri	x (F2)		Piedmont Floodplain Soils (F19) (LRR P, S, T)
Stratif	ied Layers (A5)			Der	leted Matrix (F3)	, ` ′	•	Anomalous Bright Loamy Soils (F20)
	ic Bodies (A6) (LRR F	. T. U)			lox Dark Şurface			(MLRA 153B)
				_		` '		
	Mucky Mineral (A7) (LI		)		oleted Dark Surfa			Red Parent Material (TF2)
_✓_Muck	Presence (A8) (LRR I	U)		Red	lox Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
	Muck (A9) (LRR P,T)			Mar	1 (F10) (LRR U)			Other (Explain in Remarks)
I CIII	WILLER P, I)							oner (Explain in remains)
Deple	ted Below Dark Surfac	e (A11)		Dep	oleted Orchric (F	11) (MLRA 151	)	
Thick	Dark Surface (A12)			Iron	-Manganese Ma	sses (F12) (LR	R O. P.T)	
					-			<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (	MLRA 15	0A)	Umi	bric Surface (F13	3) (LKK P, 1, U	)	hydrology must be present, unless disturbed or
Sand	Mucky Mineral (S1) (I	RROS	١	Delt	ta Orchric (F17) (	(MLRA 151)		problematic.
	Gleyed Matrix (S4)		,		luced Vertic (F18		150D)	
					•		•	
	Redox (S5)				dmont Floodplain		•	
Stripp	ed Matrix (S6)			Ano	malous Bright Lo	oamy Soils (F20	)) (MLRA 149A, 153C	, 153D)
Dark :	Surface (S7) (LRR P,	S. T. U)						
							· · · · · · · · · · · · · · · · · · ·	
	e Layer (If observed)	:						
	Type:							
	Depth (inches):						Hydric Soil Presen	t? Yes <u>√</u> No
Remarks:								
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Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		Sampling Date: 11/6/09		
Applicant/Owner: Progress Energy Florida, Inc.		State:FL	~	Sampling Point: ZH		
Investigator(s): Kart Bullock		Section, Township, Range: <u>35 17S 16E</u>				
Landform (hillslope, terrace, etc.): N/A	·	Local relief (concave, conv	ex, none): none	Slope (%):		
Subregion (LRR or MLRA): LRR U	Lat: <u>28.96017</u>	'5 Long: -82.65	59844	Datum: WGS84		
Soil Map Unit Name: Boca fine sand				NA		
Are climatic / hydrologic conditions on the site type	ical for this time of year?	Yes <u>✓</u>	_ No	(If no, explain in Remarks)		
Are Vegetation, Soil,	or Hydrology			normal? Yes / No		
	or Hydrology			any answers in Remarks)		
SUMMARY OF FINDINGS - Attach sit			•	•		
Hydrophytic Vegetation Present?	Yes ✓ _ No	]	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
Hydric Soil Present?	YesNo	Is the Sampled Area w	ithin a Wetland?	Yes No		
Wetland Hydrology Present?	Yes✓No	]				
Remarks:		a	<u>.</u>			
HADBOLOGA						
Wetland Hydrology Indicators:	<del>*************************************</del>		Sacandan Indicat	ors (minimum of two required)		
i	hook all that apply		Surface Soil	<del></del>		
Primary Indicators (minimum of one is required; of		DO)		• •		
Surface Water (A1)	Water-Stained Leaves (	D9)		getated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)	ND 40	Drainage Pa			
Saturation (A3)	Marl Deposits (B15) (LR		Moss Trim L			
Water Marks (B1)	Hydrogen Sulfide Odor	. ,	·	Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	· · · · · · · · · · · · · · · · · · ·		• •		
Drift Deposits (B3)	Presence of Reduced In		isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·				
Iron Deposits (B5)	Thin Muck Surface (C7)	<del></del>				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remai	rks)	FAC Neutral	Test (D5)		
Field Observations:						
Surface Water Present?	Yes No		-	•		
Water Table Present?	Yes No		Wetland			
Saturation Present?	Yes No	_ Depth (inches):0	Hydrology			
(includes capillary fringe)			Present?	Yes <u> </u>		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	inspections), if available:				
Remarks:						
				·		
				•		

Adapted from U.S. Army Corps of Engineers Atlantic and Gulf Coastal Plain Region- Interim Version

County/soil:	Citrus-	Boca
SOIL		

SOIL							Sampling Point: ZH			
Profile De	scription: (Describe t	o the de	pth needed to doc	ument the indicator or c	onfirm the ab	sence of indicators.)				
Depth	Matrix			Redox Features						
(inches)	Color (moist)	%	Color (moist)	% Type <sup>1</sup>	Loc	Texture	Remarks			
0-7	10 YR 4/2		10 YR 3/1			few fine roots	dark grayish brown fine sand			
i						few medium				
			10 YR 6/6; 10			distinct mottles				
7-20	10 YR 6/4		YR 7/2			and streaks	light yellowish brown fine sand			
						common medium				
20-39	10 YR 7/4		10 YR 6/6			distinct mottles	very pale brown fine sand			
39-80	10 YR 7/3						very pale brown fine sand			
		etion, RM	=Reduced Matrix, (	CS=Covered or Coated Sa	and Grains.	<sup>2</sup> Location: PL=Pore				
	il Indicators:						ndicators for Problematic Hydric Soils 3:			
Histol				Polyvalue Below Surf			1 cm Muck (a9) (LRR O)			
	Epidon (A2)			Thin Dark Surface (S			2 cm Muck (A10) (LRR S)			
	Histic (A3)			Loamy Mucky Minera			Reduced Vertic (F18) (outside MLRA 150A, B)			
	gen Sulfide (A4)			Loamy Gleyed Matrix	(F2)	_	Piedmont Floodplain Soils (F19) (LRR P, S, T)			
	ed Layers (A5)			Depleted Matrix (F3)		_	Anomalous Bright Loamy Soils (F20)			
Organ	ic Bodies (A6) (LRR P	', Τ, Ψ)		Redox Dark Surface	• •		(MLRA 153B)			
5 cm f	Mucky Mineral (A7) (LF	RR P,T,U	)	Depleted Dark Surface	e (F7)	-	Red Parent Material (TF2)			
✓ Muck	Presence (A8) (LRR L	J)		Redox Depressions (	F8)	_	Very Shallow Dark Surface (TF12) (LRR T, U)			
1 cm !	Muck (A9) (LRR P,T)			Marl (F10) (LRR U)			Other (Explain in Remarks)			
1							,			
1	ted Below Dark Surfac	e (A11)		Depleted Orchric (F1		•				
Thick	Dark Surface (A12)			Iron-Manganese Mas	ses (F12) (LR	RO, P,T) 3	Indicators of hydrophytic vegetation and wetland			
Coast	Prairie Redox (A16) (I	VILRA 15	0A)	Umbric Surface (F13	(LRR P, T, U		nydrology must be present, unless disturbed or			
Sand	Mucky Mineral (S1) (L	DD A S	, ,	Delta Orchric (F17) (	MI RA 151)					
	Gleyed Matrix (S4)	-KK U, 3	,	Reduced Vertic (F18	· · · · · · · · · · · · · · · · · · ·	450D)				
					•					
	Redox (S5)			Piedmont Floodplain			4E2D)			
	ed Matrix (S6)			Anomalous Bright Lo	arny Solis (F20	) (MLRA 149A, 153C,	, 1530)			
Dark S	Surface (S7) (LRR P, S	S, T, U)								
Restrictiv	e Layer (If observed):	:								
	Туре:		******							
	Depth (inches):					Hydric Soil Present	t? Yes <u>√</u> No			
Remarks:										
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Project/Site: Levy Baseload Transmission Progra	am, LCR	City/County: Citrus	Sa	mpling Date: 10/13/09			
Applicant/Owner: Progress Energy Florida, Inc.				mpling Point: CS K			
		Section, Township, Range:32 17S 17E/ 31 17S 17E					
Landform (hillslope, terrace, etc.): N/A							
Subregion (LRR or MLRA): LRR U				Datum: WGS84			
Soil Map Unit Name: Boca fine sand			_NWI classification: _pa				
Are climatic / hydrologic conditions on the site type	pical for this time of year?	Yes <u>✓</u>	No (If	no, explain in Remarks)			
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstances nor	mal? YesNo			
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain any	answers in Remarks)			
SUMMARY OF FINDINGS - Attach si	te map showing sampl	ling point locations,	transects, importa	ant features, etc.			
Hydrophytic Vegetation Present?	Yes No						
Hydric Soil Present?	YesNo	Is the Sampled Area w	ithin a Wetland? Ye	s No			
Wetland Hydrology Present?	Yes No						
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (	minimum of two required)			
Primary Indicators (minimum of one is required; of	check all that apply)						
Surface Water (A1)	Water-Stained Leaves (	'R9)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Patterns (B10)				
✓ Saturation (A3)	Marl Deposits (B15) (LR	DD 11\	Moss Trim Lines (B16)				
	Nari Deposits (B19) (LR		Dry-Season Water Table (C2)				
Water Marks (B1) Sediment Deposits (B2)	Oxidized Rhizospheres			, ,			
Drift Deposits (B3)	Presence of Reduced Iro		Crayfish Burrows (C8)Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Recent Iron Reduction in	, ,	Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)	, ,					
Inundation Visible on Aerial Imagery (B7)			Shallow Aquitard (D3)FAC Neutral Test (D5)				
Field Observations:	Other (Explain in Remai	11.5)	AC Neutral Tes	(00)			
Surface Water Present?	Yes No ✓	Depth (inches):					
Water Table Present?	YesNo						
Saturation Present?	Yes No		Wetland				
(includes capillary fringe)		Depti (mones).	Hydrology Present? Ye	s _⁄No			
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous	s inspections), if available:	priesent: re	3 <u>. No</u>			
Remarks:							
	•						
·							

VEGETATION - Use scientific na	mes of plants				Sampling Point:	CS K
	Absolute %	Dominant	Indicator	Dominance Test Worksheet:		
Tree Stratum (Plot size:)	Cover	Species?	Status			
1. Salix spp.	20	yes	FACW	Number of Dominant Species	10	<b>(A)</b>
Sabal palmetto	15	yes	FAC	That Are OBL, FACW, or FAC:	<u>10</u>	(A)
3. Quercus laurifolia	10	yes	FACW	Total Number of Dominant	10	(D)
				Species Across All Strata:	<u>10</u>	(B)
<b>4</b> . <b>5</b> .	•			Percent of Dominant Species	400.00	(A (D)
6.			•	That Are OBL, FACW, or FAC:	<u>100.00</u>	(A/B)
7.				Prevalance Index worksheet:		
	45	= Total Cove	er	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	
Sabal palmetto	1	yes	FAC	FACW species	x2=	
2. Diospyros virginiana	1	yes	FAC	FAC species	x3=	
3.				FACU species	x4=	_
4.	- <del></del>			UPL species	x5=	_
5.			) I	Column Totals:	(A)	(B)
6.				1		_ ` `
7.			· -	Prevalance Index = B/A =		
	2	= Total Cove	eı	Hydrophytic Vegetation Indic	ators:	
Shrub Stratum (Plot size:	_)			✓ Dominance Test is 50%		
Myrica cerifera	10	yes	FAC	Prevalence Index is ≤3.0	) <sup>1</sup>	
2. Viburnum obovatum	5	yes	FACW	Problematic Hydrophytic	: Vegetation <sup>1</sup> (Exp	lain)
3. Ilex cassine	1	no	FACW			
4. Hypericum spp.	1	no	FACW	Indicators of hydric soil and we	etland hydrology n	nust
5. Bromelia pinguin	1	no	NL	be present, unless disturbed or	problematic.	
6. Cephalanthus occidentalis	1	no	OBL.	Definitions of Vegetation Stra	ata:	
7. Callicarpa americana	1	no	FACU	1		
	20	= Total Cov	er	Tree- Woody plants, excluding w	oody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or more	in height and 3 in.	(7.6
Erianthus giganteus	25	yes	FACW	cm) or larger in diameter at breas	st height (DBH).	
Pluchea spp.	5	no	FACW	Sapling- Woody plants, excludin	g woody vines,	
3. Eupatorium capillifolium	5	no	FACU	approximately 20 ft (6m) or more	in height and less	than 3
Andropogon glomeratus	1	no	FACW	in. (7.6 cm) DBH.		
<ol><li>Andropogon virginicus</li></ol>	1	no	FAC	Shrub- Woody plants, excluding	woody vines,	
6. Hyptis alata	1	no	OBL	approximately 3 to 20 ft (1 to 6 m	) in height.	
7. Dichromena spp.	1	no	FACW	Herb- All herbaceous (non-wood	y)plants, including	
<ol><li>Muhlenbergia spp.</li></ol>	1	no	FAC	herbaceous vines, regardless of		
Phyla nodiflora	1	no	FACW	plants, except woody vines, less	than approximately	/ 3 ft (1
10. Setaria spp.	1	no	FAC	m) in height.		
11. Solidago spp.	1	no	FACU	Woody vine- All woody vines, re	gardless of height.	
12. Urochloa plantaginea	1	no	NL.			
3	44	= Total Cov	er			
Woody Vine Stratum (Plot size:	- — —	= Total Cov	er			
Toxicodendron radicans	- — —	≃ Total Cov	er <u>FAC</u>			
Toxicodendron radicans     Ampelopsis arborea	- — —					
Toxicodendron radicans     Ampelopsis arborea     3.	- — —	yes	FAC			-
Toxicodendron radicans     Ampelopsis arborea     3.	- — —	yes	FAC	Hydrophytic		-
Toxicodendron radicans     Ampelopsis arborea     3.	1 1	yes yes	FAC FAC	<b>-</b>	s <u>✓</u> No	· · · · ·
Toxicodendron radicans     Ampelopsis arborea     4.      5.	1 1 2	yes yes	FAC FAC	<b>-</b>	; <u>✓</u> No	<u>.</u>
Toxicodendron radicans     Ampelopsis arborea     3.	1 1 2 2 Nological adapta	yes yes = Total Covitions below).	FAC FAC	Vegetation Present? Yes	s <u>✓</u> No	<u>-</u>

SOIL								Sampling Point:CS
Profile I Depth	Description: (Describe Matrix	to the de	pth needed to doo		e indicator or o	confirm the at	sence of indicator	s.)
(inches)	Color (moist)	%	Color (moist)	_%	Type	Loc2	Texture	Remarks
0-5	10 YR 4/2							dark grayish brown fine sand
5-19	10 YR 7/1						-	light gray fine sand
19-21	10 YR 7/8							yellow fine sand
							common fine and medium distinct	
21-38	10 YR 5/2		10 YR 5/6				mottles	grayish brown sandy clay loam
	=Concentration, D=Dep	letion, RM	=Reduced Matrix,	CS=Cover	ed or Coated S	and Grains.	*Location: PL=Po	ore Lining, M=Matrix.
, ,	Soil Indicators: ol (A1)			Debe	alua Dalauu Cum	f (CO) (I DE	. C. T. III	Indicators for Problematic Hydric Soils 3:
	ic Epidon (A2)				alue Below Sur Dark Surface (S			1 cm Muck (a9) (LRR O) 2 cm Muck (A10) (LRR S)
	k Histic (A3)				y Mucky Minera		,	Reduced Vertic (F18) (outside MLRA 150A, B)
_	rogen Sulfide (A4)				y Gleyed Matrix		,	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	tified Layers (A5)				ted Matrix (F3)			Anomalous Bright Loamy Soils (F20)
	anic Bodies (A6) (LRR F	P, T, U)			x Dark Surface			(MLRA 153B)
5 cn	n Mucky Mineral (A7) (L	RR P.T.U	)	Deple	ted Dark Surfa	ce (F7)		Red Parent Material (TF2)
	ck Presence (A8) (LRR		,	Redo	x Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
	n Muck (A9) (LRR P,T)	,		Marl (	F10) (LRR U)			Other (Explain in Remarks)
Dep	leted Below Dark Surfac	æ (A11)		Deple	ted Orchric (F1	1) (MLRA 151	· ·	
Thic	k Dark Surface (A12)			Iron-N	langanese Mas	ses (F12) (LR	R O, P,T)	3
Coa	st Prairie Redox (A16) (	MLRA 15	0A)	Umbr	ic Surface (F13	) (LRR P, T, U	)	Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or
San	dy Mucky Mineral (S1) (	LRR O, S	)	Delta	Orchric (F17) (	MLRA 151)		problematic.
San	dy Gleyed Matrix (S4)			Redu	ced Vertic (F18	) (MLRA 150A	, 150B)	
San	dy Redox (S5)			Piedn	nont Floodplain	Soils (F19) (M	LRA 149A)	
Cirie	and Matrix (CC)			Anom	alous Bright La	omy Coile (E20	V (841 DA 440A 452	C 452D)

Hydric Soil Present?

Yes X No

Remarks:

Project/Site: Levy Baseload Transmission Progra	m, LCR	City/County: Citrus		Sampling Date: 10/14/09	
Applicant/Owner: Progress Energy Florida, Inc.		State: FL	· · · · · · · · · · · · · · · · · · ·	Sampling Point: CS L	
Investigator(s): Mike Arrants, Colleen Cunni	ngham	Section, Township, Range: 32 17S 17E			
Landform (hillslope, terrace, etc.): N/A	<u> </u>	Local relief (concave, convex, none): none Slope (%):			
Subregion (LRR or MLRA): LRR U	Lat:28,96197	77 Long: <u>-82</u>	619076	Datum: WGS84	
Soil Map Unit Name: Boca fine sand			NWI classification:	palustrine emergent	
Are climatic / hydrologic conditions on the site typ	ical for this time of year?	Yes <u></u> ✓	. No	(If no, explain in Remarks)	
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstances	normal? Yes <u>✓</u> No	
Are Vegetation, Soil,	or Hydrology	_naturally problematic?	(If needed, explain	any answers in Remarks)	
SUMMARY OF FINDINGS - Attach sit	te map showing sampl	ling point locations, t	ransects, impo	ortant features, etc.	
Hydrophytic Vegetation Present?	Yes No				
Hydric Soil Present?	Yes No	Is the Sampled Area w	ithin a Wetland?	YesNo	
Wetland Hydrology Present?	Yes No	]			
Remarks: Marginal, Isolated, depressional wetlan	id in maintained Right-of-Way				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two required)	
Primary Indicators (minimum of one is required; of	heck all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (	(B9)		getated Concave Surface (B8)	
High Water Table (A2)	Aquatic Fauna (B13)	,,	Drainage Pat	, ,	
✓ Saturation (A3)	Marl Deposits (B15) (LF	R III	Moss Trim Li	` ′	
Water Marks (B1)	Hydrogen Sulfide Odor	-		· · ·	
` '	<del></del>				
Sediment Deposits (B2)	Oxidized Rhizospheres			` '	
Drift Deposits (B3)	Presence of Reduced Ir	, ,		sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Recent Iron Reduction i	. ,	Geomorphic	· ´ ´	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aqui	' '	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutral	Test (D5)	
Field Observations:					
Surface Water Present?	Yes No	Depth (inches):			
Water Table Present?	Yes <u>✓</u> <u>No</u>	Depth (inches): >10	] Wetland		
Saturation Present?	Yes <u>No</u>	Depth (inches): >10	Hydrology		
(includes capillary fringe)			Present?	Yes No	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previou	is inspections), if available:			
Remarks:					
1				•	
I					

<b>VEGETATION</b> - Use scientific nar	mes of plants				Sampling Point: _	CS L
Tree Stratum (Plot size: )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:		
1.				Number of Dominant Species	5	(4)
2.				That Are OBL, FACW, or FAC	: <u>5</u>	(A)
3. 4.				Total Number of Dominant	-	(D)
4.				Species Across All Strata:	<u>5</u>	(B)
5.				Percent of Dominant Species	100.00	(A.ID)
6.				That Are OBL, FACW, or FAC	100.00	(A/B)
7.				Prevalance Index worksheet	:	
	0	= Total Cove	r	Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	)			OBL species	x1=	
1.				FACW species	x2=	
2.				FAC species	x3=	
3.				FACU species	x4=	
4.				UPL species	x5=	
5.				Column Totals:	(A)	(B)
6.					_ (- /	_ (-/
7.				Prevalance Index = B/A =		
·:		= Total Cove	1	Hydrophytic Vegetation Indi		
Shrub Stratum (Plot size:		10101 0010		✓ Dominance Test is 50%		
1.				Prevalence Index is ≤3		
2.				Problematic Hydrophyti		nlain)
3.				1 Toblematic Hydrophyti	e vegetation (Ex	piairij
4.				<sup>1</sup> Indicators of hydric soil and w	otland bydrology r	muet
5.	· <del></del>			be present, unless disturbed o		nust
6.				Definitions of Vegetation Str		
7.				Tommerone or regulation of	u.u.	
7.	0	= Total Cove	r	Tree- Woody plants, excluding v	woody vinos	
Herb Stratum (Plot size:)	Ü	- Total Cove		approximately 20 ft (6m) or more		(7.6
Erianthus giganteus	30	yes	FACW	cm) or larger in diameter at brea		. (7.0
Hyptis alata	20		OBL	4 2 2		
Andropogon glomeratus	20	yes	FACW	Sapling- Woody plants, excluding approximately 20 ft (6m) or more		than 3
Andropogori giorneratus     Phyla nodiflora	10	yes	FACW	in. (7.6 cm) DBH.	e in neight and less	ulai i
Eupatorium capillifolium	5	no	FACU	Shrub- Woody plants, excluding	a woody vinos	
Chasmanthium spp.	1	no	FAC	approximately 3 to 20 ft (1 to 6 r		
<ol> <li>Chasmantinum spp.</li> <li>Chenopodium ambrosioides</li> </ol>	1	no	FACU			
Polygonum spp.	1	no	FAC	Herb- All herbaceous (non-wood herbaceous vines, regardless of		
Folygonum spp.     Eleusine indica		no	FACU	plants, except woody vines, less		
10.		110	FACO	m) in height.	trian approximator	jont
11.				Woody vine- All woody vines, re	agardless of height	
12.				Twoody vine- All woody vines, it	egardiess of fleight	
12.	89	= Total Cava		-		
Woody Vine Stratum (Plot size:		= Total Cove	1			
		waa	FAC	12m		
Ampelopsis arborea     Mikania acandona		yes	FAC	-		
Mikania scandens	1	yes	FACW	<del> </del>		
3.				1		
4. 5.				Hydrophytic	o ( No	
				Vegetation Present? Ye	s ✓ No	
5.	2	= Total Cove		1		

		and the Control					andima the ab	names of indicators	· · · · · · · · · · · · · · · · · · ·				(
inches) Color (moist) % Color (moist) % Type¹ Loc⁴ Texture Remarks  D.5 10 YR 4/2   dark gray/sh brown fine sand light gray fine sand light gray fine sand light gray fine sand yellow fine sand yellow fine sand light gray fine sand yellow fine sand yellow fine sand yellow fine sand yellow fine sand ocommon fine and medium distinct mottles gray/sh brown sandy clay loam  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. Common fine and medium distinct mottles gray/sh brown sandy clay loam  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. PL=Pore Lining, M=Matrix.  Hydric Soil Indicators: Indicators for Problematic Hydric Soils *:  Histol (A1)			to the de	ptn needed to do			committe au	sence of indicators.	.,				
Depleted Below Dark Surface (A1)   Lern Muck (A9) (LRR P, T, U)   Depleted Below Dark Surface (A11)   Depleted Below Dark Surface (A11)   Depleted Below Dark Surface (A11)   Depleted Below Dark Surface (A11)   Depleted Below Dark Surface (A11)   Depleted Below Dark Surface (A11)   Depleted Below Dark Surface (A12)   Lern Muck (A9) (LRR P, T, U)   Depleted Orchric (F11) (LRR U)   Depleted Grant (A7) (LRR P, T, U)   Depleted Orchric (F11) (LRR D)   Depleted Below Dark Surface (A12)   Lorn Muck (A9) (LRR D, T)   Depleted Below Dark Surface (A13)   Depleted Grant (A7) (LRR P, T, U)   Depleted Grant (A	•		<u>%</u>	Color (moist)			Loc²	Texture			Ren	narks	
Section   10 YR 7/1		Color (molely		20101 (1110101)			-						
Per   10 YR 7/8											fine san	ıd	
Common fine and medium distinct mottles grayish brown sandy clay loam  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.  To Coate Training, M=Matrix  Turn, Mack (applet Matrix, CS=Covered or Coated Sand Grains.  To Muck (applet Matrix, CS=Covered or Coated Sand Grains.  To Muck (applet Matrix, CS=Covered or Coated Sand Grains.  To Muck (applet Matrix, CS=Covered or Coated Sand Grains.  To Muck (applet Matrix, CS=Covered or Coated Sand Grains.  To Muck (applet Matrix, CS=Covered or Coated Sand Grains.  To Muck (applet Laptrix, CS=Covered or Coated Sand Grains.  To Muck (applet Laptrix, CS=Covered or Coated Sand Grains.  To Muck (applet Laptrix, CS=Covered or Coated Sand Grains.  To Muck (appletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  To Muck (appletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  To Muck (appletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  To Muck (appletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  To Muck (appletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  To Muck (appletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  To Muck (appletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  To Muck (appletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  To Muck (appletion, RM=Reduced (SP1) (LRR P, T, U)  To Muck (appletion, RM=Reduced (SP1) (LRR P,				-									
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 (S)	19-21	10 YR 7/8							yellow fine sa	nd			
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 Matrix.  Type: C=Concentration, D=Depleted Matrix.  Type: C=Concentration, D=Depleted Matrix.  Type: C=Concentration, D=Depleted Matrix.  Type: C=Concentration, D=Depleted in g. Section Sectio													
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Polyvalue Below Surface (S8) (LRR S, T, U) Histic Epidon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Depleted Matrix (F2) Muck Presence (A8) (LRR P, T, U) Depleted Dark Surface (F7) Loamy Surface (F7) Muck Presence (A8) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR O, S) Dark Surface (F13) (LRR P, T, U) Sandy Mucky Mineral (S1) (LRR O, S) Dark Surface (F8) (LRR P, T, U) Polyvalue Below Surface (F8) (LRR S, T, U) Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 3 Indicators for Problematic Hydric Soils 4 Indicators for Problematic Hydric Soils 4 Indicators for Problematic Hydric Soils 4 Indicators for Problematic Hydric Soils 4 Indicators for Problematic Hydric Soils 4 Indicators for Problematic Hydric Soils 4 Indicators for Problematic Hydric Soils (F18) (MLRA 151) Indicators of Problematic Hydric Soils (F18) (MLRA 151) Indicators of hydrophytic vegetation and wethydrology must be present, unless disturbed of problematic.  Sandy Mucky Mineral (S1) (LRR O, S) Sandy Redox (S5) Piedmont Floodplain Soils (F18) (MLRA 159A) Indicators of hydrophytic vegetation and wethydrology must be present, unless disturbed of problematic.  Polyman Indicators of hydrophytic vegetation and wethydrology must be present, unless disturbed of problematic.  Polyman Indicators for Problematic Hydric Soil (RR O, P, T) Indicators of hydrophytic vegetation and wethydrology must b	11 20	10 VD 5/2		10 VD 5/6					gravish brown	cand	h, clay lo	am	
Hydric Soil Indicators:  Histol (A1)  Histic Epidon (A2)  Elack Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Muck (A9) (LRR P, T, U)  Epeleted Matrix (F3)  Endwck (A9) (LRR P, T, U)  Epeleted Dark Surface (F6)  Indicators for Problematic Hydric Soils 3:  1 cm Muck (A9) (LRR C)  1 cm Muck (A9) (LRR C)  1 cm Muck (A10) (LRR S)  Reduced Vertic (F18) (outside MLRA 15)  Fiedmont Floodplain Soils (F19) (LRR P, S)  Endmont Floodplain Soils (F19) (LRR P, S)  Endmont Floodplain Soils (F19) (LRR P, S)  Endmont Floodplain Soils (F19) (LRR P, S)  Endmont Floodplain Soils (F19) (LRR P, S, T, U)  Epeleted Matrix (F3)  Endmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Endmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Endmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Endmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Endmont Floodplain Soils (F19) (LRR P, T)  Endmont Floodplain Soils (F19) (LRR D, P, T)  Endmont Floodplain Soils (F19) (MLRA 151)  Endmont Floodplain Soils (F19) (MLRA 151)  Endmont Floodplain Soils (F19) (MLRA 151)  Endmont Floodplain Soils (F19) (MLRA 150A)  Endmont Floodplain Soils (F19) (MLRA 150B)  Endmont Floodplain Soils (F19) (MLRA 150B)  Endmont Floodplain Soils (F19) (MLRA 150B)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20)  Endmont Floodplain Soils (F20)  En	1-30	10 11 3/2		10 11 3/0			-	motues	grayish brown	i sailu	y Clay IC	diii	
Hydric Soil Indicators:  Histol (A1)  Histic Epidon (A2)  Elack Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Muck (A9) (LRR P, T, U)  Epeleted Matrix (F3)  Endwck (A9) (LRR P, T, U)  Epeleted Dark Surface (F6)  Indicators for Problematic Hydric Soils 3:  1 cm Muck (A9) (LRR C)  1 cm Muck (A9) (LRR C)  1 cm Muck (A10) (LRR S)  Reduced Vertic (F18) (outside MLRA 15)  Fiedmont Floodplain Soils (F19) (LRR P, S)  Endmont Floodplain Soils (F19) (LRR P, S)  Endmont Floodplain Soils (F19) (LRR P, S)  Endmont Floodplain Soils (F19) (LRR P, S)  Endmont Floodplain Soils (F19) (LRR P, S, T, U)  Epeleted Matrix (F3)  Endmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Endmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Endmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Endmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Endmont Floodplain Soils (F19) (LRR P, T)  Endmont Floodplain Soils (F19) (LRR D, P, T)  Endmont Floodplain Soils (F19) (MLRA 151)  Endmont Floodplain Soils (F19) (MLRA 151)  Endmont Floodplain Soils (F19) (MLRA 151)  Endmont Floodplain Soils (F19) (MLRA 150A)  Endmont Floodplain Soils (F19) (MLRA 150B)  Endmont Floodplain Soils (F19) (MLRA 150B)  Endmont Floodplain Soils (F19) (MLRA 150B)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20) (MLRA 149A)  Endmont Floodplain Soils (F20)  Endmont Floodplain Soils (F20)  En					—		<del></del>		· <del></del>				
Hydric Soil Indicators:  Histol (A1)  Histic Epidon (A2)  Elack Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Depleted Matrix (F3)  Fedox Depressions (F8)  I cm Muck (A10) (LRR S)  Reduced Vertic (F18) (outside MLRA 15)  Fiedmont Floodplain Soils (F19) (LRR P, T)  Muck Presence (A8) (LRR P, T, U)  Depleted Dark Surface (F6)  I 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 Mucky Mineral (S1) (LRR O, S)  Selfown Tion Dark Surface (A15)  Delta Orchric (F13) (MLRA 150A)  Delta Orchric (F13) (MLRA 150B)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (LRR P, T, U)  Piedmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Piedmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Piedmont Floodplain Soils (F19) (LRR P, Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Piedmont Floodplain Soils (F19) (MLRA 151)  I cm Muck (A9) (LRR P, T, U)  Depleted Dark Surface (A11)  Depleted Dark Surface (F13) (LRR O, P, T)  Umbric Surface (F13) (LRR O, P, T)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (F1) (LRR O, S)  Delta Orchric (F17) (MLRA 150A)  Delta Orchric (F17) (MLRA 150A)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)		• ————											
Histol (A1)  Histol (A2)  Histic Epidon (A2)  Black Histic (A3)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Mucky Mineral (F1) (LRR O)  For Mucky Mineral (F2)  Depleted Matrix (F3)  Depleted Dark Surface (F6)  Mucky Mineral (A7) (LRR P, T, U)  Depleted Dark Surface (F6)  Mucky Mineral (A7) (LRR P, T, U)  Peleted Dark Surface (F7)  Muck Presence (A8) (LRR U)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (S1) (LRR O, S)  Below Dark Surface (F13) (LRR P, T, U)  Depleted Orchric (F11) (MLRA 151)  Jeno-Manganese Masses (F12) (LRR O, P, T)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Dark Surface (S7) (LRR P, S, T, U)  Jeno-Manganese Masses (F20) (MLRA 149A)  Anomalous Bright Loamy Soils (F20)  Loamy Mucky Mineral (S1) (LRR O, S)  Anomalous Bright Loamy Soils (F20)  Muck (RR O, P, T)  Jendemont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Type: C=	Concentration, D=Depl	etion, RN	/=Reduced Matrix,	CS=Cove	red or Coated S	Sand Grains.	<sup>2</sup> Location: PL=Poi	re Lining, M=Matr	ix.			
Histic Epidon (A2)  Black Histic (A3)  Loamy Mucky Mineral (F1) (LRR O)  Loamy Mucky Mineral (F1) (LRR O)  Piedmont Floodplain Soils (F19) (LRR P, P, Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Streen 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 Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Dark Surface (S7) (LRR P, S, T, U)  Thick Dark Surface (S7) (LRR P, S, T, U)  Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Piedmont Floodplain Soils (F19) (LRR P, Diedmont Floodplain Soils (F10) (LRR O, T)  Piedmont Floodplain Soils (F10) (LRR P, T)  Piedmont Floodplain Soils (F10) (LRR O, T)  Redoved Vertic (F18) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	lydric Sc	oil Indicators:							Indicators for P	roble	matic H	ydric Soils 3:	
Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 15 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Mucky Mineral (A7) (LRR P,T,U)  Muck Presence (A8) (LRR P,T) Redox Depressions (F8)  1 cm Muck (A9) (LRR P,T)  Pepleted 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 Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F10) (LRR O) Piedmont Floodplain Soils (F10) (LRR O, F10) Piedmont Floodplain Soils (F10) (LRR O, F10) Piedmont Floodplain Soils (F10) (LRR O, F10) Piedmont Floodplain Soils (F10) (LRR O, F10) Piedmont Floodplain Soils (F10) (LRR O, F10) Piedmont Floodplain Soils (F10) (MLRA 149A) Piedmont Floodplain Soils (F10) (MLRA 149A, 153C, 153D)  Reduced Vertic (F18) (MLRA 149A, 153C, 153D)		• •											
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Depleted Matrix (F3)  Muck y Mineral (A7) (LRR P,T,U)  Depleted Dark Surface (F7)  Mard (F10) (LRR U)  Depleted Dark Surface (F8)  Other (Explain in Remarks)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20)  Matrix (F2)  Piedmont Floodplain Soils (F19) (MLRA 151)  Poetace (F7)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)					•		•			-	•		
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Endox Dark Surface (F6) Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U)  Depleted Dark Surface (F6)  Muck Presence (A8) (LRR U)  Depleted Dark Surface (A8)  Depleted Depleted Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Anomalous Bright Loamy Soils (F20)  (MLRA 153B)  Anomalous Bright Loamy Soils (F20) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A)  Strate (S7) (LRR P, S, T, U)								)					
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)  Redox Depressions (F8)  Very Shallow Dark Surface (F71) (LRR U)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Dark Surface (S7) (LRR P,T, U)  Marl (F10) (LRR U)  Depleted Orchric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  Jeffic Dark Surface (A12)  Umbric Surface (F13) (LRR P, T, U)  Negroid Matrix (S4)  Reduced Vertic (F13) (LRR P, T, U)  Popleted Orchric (F17) (MLRA 151)  Sandy Mucky Mineral (S1) (LRR O, S)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)									_	•			S, 1)
✓ 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)  Redox Depressions (F8)  Marl (F10) (LRR U)  Depleted Crchric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  JIndicators of hydrophytic vegetation and weth hydrology must be present, unless disturbed or problematic.  Reduced Vertic (F13) (MLRA 150A)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	<del></del>								•		ial (TF2	١	
1 cm Muck (A9) (LRR P,T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Marl (F10) (LRR U)  Depleted Orchric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  Jeff Coast Prairie Redox (A16) (MLRA 150A)  Umbric Surface (F13) (LRR P, T, U)  Delta Orchric (F17) (MLRA 151)  Problematic.  Reduced Vertic (F18) (MLRA 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)					<u> </u>		` '				•	•	T 111
Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Depleted Orchric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  Jumbric Surface (F13) (LRR P, T, U)  hydrology must be present, unless disturbed on problematic.  Peduced Vertic (F18) (MLRA 151)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)													1, 0,
Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Iron-Manganese Masses (F12) (LRR O, P,T)  Jandicators of hydrophytic vegetation and wetle hydrology must be present, unless disturbed of problematic.  Peduced Vertic (F17) (MLRA 151)  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	1 cm	Muck (A9) (LRR P,T)							Other (Explain in Remarks)				
Coast Prairie Redox (A16) (MLRA 150A)  Umbric Surface (F13) (LRR P, T, U)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Umbric Surface (F13) (LRR P, T, U)  hydrology must be present, unless disturbed of problematic.  Peduced Vertic (F18) (MLRA 151)  Reduced Vertic (F18) (MLRA 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Deple	eted Below Dark Surfac	e (A11)		Depl	eted Orchric (F	11) (MLRA 151	)					
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)  Limbric Surface (F13) (LRR P, T, U)  hydrology must be present, unless disturbed of problematic.  problematic.  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)	Thick	Dark Surface (A12)			Iron-Manganese Masses (F12) (LRR O, P,T)			R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland			and	
	Coast	t Prairie Redox (A16) (	MLRA 1	50A)	Umb	ric Surface (F1	3) (LRR P, T, U	)	hydrology must be present, unless disturbed or				
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Dark Surface (S7) (LRR P, S, T, U)	Sand	v Mucky Mineral (S1) (I	LRR O. S	S)	Delta	Orchric (F17)	(MLRA 151)		problematic.				
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)				•		uced Vertic (F1	8) (MLRA 150A	, 150B)					
Dark Surface (S7) (LRR P, S, T, U)					Pied	mont Floodplair	n Soils (F19) (M	LRA 149A)					
	Stripp	ped Matrix (S6)			Anoi	nalous Bright L	oamy Soils (F20	) (MLRA 149A, 1530	C, 153D)				
Restrictive Laver (If observed):	Dark	Surface (S7) (LRR P.	S, T, U)										
	Restrictiv	e Layer (If observed)	<del></del>					Ì					
Туре:		Type:											
Depth (inches): Hydric Soil Present? Yes X No .		Depth (inches):						Hydric Soil Prese	nt? Yes	X	No	•	
Deptin (inches):   Injuric Soit Present? Tes X No .  Remarks:								Inyuric Soil Prese	ntr res		NO	•	

Project/Site: Levy Baseload Transmission Progra	am. LCR	City/County: Citrus		Sampling Date:	10/14/09	
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Point:		
Investigator(s): Mike Arrants, Colleen Cunr						
Landform (hillslope, terrace, etc.): N/						
		163 Long: -82.621790 Datum: WGS84				
Soil Map Unit Name: Boca fine sand	201		_NWI classification:			
Are climatic / hydrologic conditions on the site ty	nical for this time of year?		_ No		Remarks)	
Are Vegetation, Soil,	,				es ✓ No	
Are Vegetation, Soil,			(If needed, explain			
SUMMARY OF FINDINGS - Attach s			, ,	•	•	
Hydrophytic Vegetation Present?	YesNo	l l	р			
Hydric Soil Present?	YesNo	Is the Sampled Area w	ithin a Wetland?	Yes✓No	·	
Wetland Hydrology Present?	Yes✓No	1				
Remarks:		4				
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicate	are /minimum of t	wo required)	
Primary Indicators (minimum of one is required:	shock all that analy)		Surface Soil		wo required)	
Surface Water (A1)	Water-Stained Leaves	(BQ)	<del></del>	getated Concave	Surface (BR)	
High Water Table (A2)	Aquatic Fauna (B13)	(69)	Drainage Pat		Surface (DO)	
<b>─</b> • ` ` ′	Mart Deposits (B15) (LI	DD 111				
Saturation (A3)		•	Moss Trim Li			
Water Marks (B1)	Hydrogen Sulfide Odor		Ory-Season \	Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres	-			ageny (CQ)	
Drift Deposits (B3)	Presence of Reduced I	, ,		isible on Aerial Im	agery (Ca)	
Algal Mat or Crust (B4)		, ,		Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7	,	Shallow Aqui			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	irks)	FAC Neutral	Test (D5)		
Field Observations:	Von No /	Double Cook and				
Surface Water Present?	YesNo	, ,	-			
Water Table Present?	YesNo		Wetland			
Saturation Present?	Yes <u>✓ No</u>	Depth (inches): <2	Hydrology			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monito	ring wall, agricl photog, proving	us inspections) if available:	Present?	Yes <u>✓ N</u>	<u> </u>	
Describe Recorded Data (Stream gauge, morno	ing wen, aenai priotos, previot	us irispections), ir available.				
Remarks:						
·						

VEGETATION - Use scientific nar	mes of plants			Sampling Point: <u>CS I</u>
	Absolute %	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum (Plot size:)	Cover	Species?	Status	
1. Salix spp.	1	yes	FACW	Number of Dominant Species
2.				That Are OBL, FACW, or FAC:   (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 3 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC:
7.				Prevalance Index worksheet:
		= Total Cove		4
Sapling Stratum (Plot size:	•	- rotal Cove	\$1	Total % Cover of: Multiply by:  OBL species x1=
1.	/			FACW species x2=
2.				·
3.				
	·			FACU speciesx4=
4.				UPL speciesx5=
5.				Column Totals: (A) (B)
6.				
7.				Prevalance Index = B/A =
<u></u>		= Total Cove	21	Hydrophytic Vegetation Indicators:
Shrub Stratum (Plot size:	<del>_</del>			✓ Dominance Test is 50%
Hypericum spp.	1	yes	FACW	Prevalence Index is ≤3.0 <sup>1</sup>
2.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3.				
4.				Indicators of hydric soil and wetland hydrology must
5.				be present, unless disturbed or problematic.
6.				Definitions of Vegetation Strata:
7.				
	1	= Total Cove	er	Tree- Woody plants, excluding woody vines,
Herb Stratum (Plot size:)				approximately 20 ft (6m) or more in height and 3 in. (7.6
Hyptis alata	1·	no	OBL	cm) or larger in diameter at breast height (DBH).
Andropogon glomeratus	1	no	FACW	Sapling- Woody plants, excluding woody vines,
<ol><li>Dichromena spp.</li></ol>	1	no	FACW	approximately 20 ft (6m) or more in height and less than
4. Phyla nodiflora	1	no	FACW	in. (7.6 cm) DBH.
<ol><li>Pluchea spp.</li></ol>	1	no	FACW	Shrub- Woody plants, excluding woody vines,
6. Muhlenbergia spp.	1	no	FAC	approximately 3 to 20 ft (1 to 6 m) in height.
7. Hydrocotyle spp.	1	no	OBL	Herb- All herbaceous (non-woody)plants, including
8. Juncus megacephalus	1	no	OBL	herbaceous vines, regardless of size. Includes woody
9. Polygonum spp.	1	no	FAC	plants, except woody vines, less than approximately 3 ft (
10. Centella spp.	1	no	FACW	m) in height.
11. Micromeria spp.	1	no	NL	Woody vine- All woody vines, regardless of height.
12. Fuirena pumila	1	no	OBL	
	12	= Total Cove		1
Woody Vine Stratum (Plot size:	) -	70101 0010		
Mikania scandens	1	yes	FACW	
2.		<u> </u>	TACVV	
3.				
<b>4</b> .				Hodens, die
5.				Hydrophytic
J.		= Total Cove		Vegetation Present? YesNo
Remarks: (If observed, list morpho	-			
	-			an man comitée à
Percent cover estimates based or	i meandering s	urvey of the b	roager cor	nmunity.

County/soil: Citrus- Boca	
County/son. Chius- Doca	

OIL								Sampling Point:C
rofile De	scription: (Describe t	o the de	pth needed to doc	ument th	e indicator or	confirm the at	sence of indicators.	)
epth	Matrix				Features			
nches)	Color (moist)	%_	Color (moist)	<u>%</u>	Type	Loc²	Texture	Remarks
5	10 YR 4/2							dark grayish brown fine sand
19	10 YR 7/1							light gray fine sand
3-21	10 YR 7/8							yellow fine sand
							common fine and	,
							medium distinct	
1-38	10 YR 5/2		10 YR 5/6				mottles	grayish brown sandy clay loam
							7	
	Concentration, D=Deple il Indicators:	etion, KN	=Reduced Matrix, (	US≃Cover	ed or Coated S	sand Grains.		e Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histol				Poho	alue Relow Su	rface (S8) (LRF		1 cm Muck (a9) (LRR O)
	Epidon (A2)					S9) (LRR S, T,		
_						, , , , ,		2 cm Muck (A10) (LRR S)
_	Histic (A3)					al (F1) (LRR O	) .	Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				y Gleyed Matri		,	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5) ic Bodies (A6) (LRR P.	, T, U)			eted Matrix (F3 x Dark Surface			Anomalous Bright Loamy Soils (F20) (MLRA 153B)
	Mucky Mineral (A7) (LF		)		eted Dark Surfa			Red Parent Material (TF2)
/_Muck	Presence (A8) (LRR L	J)	•	Redo	x Depressions	(F8)		Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm l	Muck (A9) (LRR P,T)			Marl	(F10) (LRR U)			Other (Explain in Remarks)
Deple	ted Below Dark Surface	e (A11)		Deple	eted Orchric (F	11) (MLRA 151	)	
Thick	Dark Surface (A12)			lron-N	Manganese Ma	sses (F12) (LR	R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland
Coast Prairie Redox (A16) (MLRA 150A)				Umbr	ic Surface (F1	3) (LRR P, T, U		hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (L	RR O, S	)	Delta	Orchric (F17)	(MLRA 151)		problematic.
Sandy	Gleyed Matrix (S4)			Redu	ced Vertic (F18	B) (MLRA 150A	, 150B)	
	Redox (S5)					Soils (F19) (M		
Stripp	ed Matrix (S6)			Anom	nalous Bright L	oamy Soils (F20	) (MLRA 149A, 153C	, 153D)
	Surface (S7) (LRR P, S	, T, U)						
	Layer (If observed):							
	Type:							
emarks:	Depth (inches):						Hydric Soil Presen	t? Yes X No .
	·							

Project/Site: Levy Baseload Transmission Prog	ram, LCR	_ City/County:Citrus		Sampling Date: 10/14/09
Applicant/Owner: Progress Energy Florida, Inc.				Sampling Point: CS S
Investigator(s): Mike Arrants, Colleen Cun	ningham	Section, Township, Range	e: <u>31 17S 17E</u>	-
Landform (hillslope, terrace, etc.): N	'A	Local relief (concave, con	vex, none): none	Slope (%):
Subregion (LRR or MLRA): LRR U	Lat: <u>28.9627</u>	38 Long: -82	2.623140	Datum: WGS84
Soil Map Unit Name: Boca fine sand			_ NWI classification	_palustrine emergent
Are climatic / hydrologic conditions on the site ty	pical for this time of year?	Yes	_ No	(If no, explain in Remarks)
	or Hydrology		Are circumstances	s normal? Yes_ ✓ No
	or Hydrology			any answers in Remarks)
SUMMARY OF FINDINGS - Attach s		ling point locations,	transects, imp	ortant features, etc.
Hydrophytic Vegetation Present?	Yes No			
Hydric Soil Present?	Yes No	Is the Sampled Area v	vithin a Wetland?	YesNo
Wetland Hydrology Present?	Yes✓ No	-1		· · ,
Remarks: Drought conditions have lowered wat	er table considerably; soils are	also extremely marginal but	majority or wetland	species.
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	Water-Stained Leaves	(B9)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Aquatic Fauna (B13)		Drainage Pa	tterns (B10)
✓ Saturation (A3)	Marl Deposits (B15) (LI	RR U)	Moss Trim L	ines (B16)
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	Presence of Reduced l	ron (C4)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Recent Iron Reduction	in Tilled Soils (C6)	Geomorphic	Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7	)	Shallow Aqu	itard (D3)
Inundation Visible on Aerial Imagery (B7	Other (Explain in Rema	arks)	FAC Neutral	Test (D5)
Field Observations:	<del></del>			
Surface Water Present?	YesNo		.]	
Water Table Present?	YesNo		<u> </u>	
Saturation Present?	Yes <u>No</u>	Depth (inches): > 12	Wetland Hydrology	
(includes capillary fringe)			Present?	YesNo
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previou	us inspections), if available:		
Remarks:		···	7.0.0	**************************************

VEGETATION - Use scientific na	mes of plants			Sampling Point: _	CS S
	Absolute %	Dominant	Indicator	Dominance Test Worksheet:	
Tree Stratum (Plot size:)	Cover	Species?	Status		
Quercus virginiana	1	yes	FACU	Number of Dominant Species	
2.				That Are OBL, FACW, or FAC:	(A)
3.				Total Number of Dominant	
4.	<del></del>			Species Across All Strata:	(B)
5.	· ——			<del>1</del>	
6.	<del></del>			Percent of Dominant Species 75.00	(A/B)
				That Are OBL, FACW, or FAC:  Prevalance Index worksheet:	
7.					
On the Ohat of Plates		= Total Cove	er	Total % Cover of: Multiply by:	
Sapling Stratum (Plot size:				OBL species x1=	_
Sabal palmetto	1	yes	FAC	FACW species x2=	
2.				FAC speciesx3=	_
3.				FACU speciesx4=	_
4.				UPL speciesx5=	_
5.				Column Totals: (A)	(B)
6.				]	_
7.				Prevalance Index = B/A =	
		= Total Cov	eı	Hydrophytic Vegetation Indicators:	
Shrub Stratum (Plot size:	)			✓ Dominance Test is 50%	
Myrica cerifera	 1	ves	FAC	Prevalence Index is ≤3.0 <sup>1</sup>	
2.	<del></del>			Problematic Hydrophytic Vegetation¹ (Exp	lain)
3.				1 Toblematic Tryarephytic Vegetation (Exp	,
4.	- ——				
5.				Indicators of hydric soil and wetland hydrology make present, unless disturbed or problematic.	iust
6.				Definitions of Vegetation Strata:	
<u> </u>	<del></del>			Definitions of Vegetation Strata.	
7.	· ———			<u> </u>	
	1	= Total Cov	er	Tree- Woody plants, excluding woody vines,	
Herb Stratum (Plot size:)				approximately 20 ft (6m) or more in height and 3 in.	(7.6
Panicum hemitomon	75	yes	OBL	cm) or larger in diameter at breast height (DBH).	
<ol><li>Muhlenbergia spp.</li></ol>	10	no	FAC	Sapling- Woody plants, excluding woody vines,	
Pluchea odorata	5	no	FACW	approximately 20 ft (6m) or more in height and less	than 3
4. Phyla nodiflora	5	no	FACW	in. (7.6 cm) DBH.	
5. Andropogon virginicus	1	no	FAC	Shrub- Woody plants, excluding woody vines,	
6. Hyptis alata	1	no	OBL	approximately 3 to 20 ft (1 to 6 m) in height.	
7. Rhexia spp.		no	FACW	Herb- All herbaceous (non-woody)plants, including	
8. Eleocharis spp.	1	no	OBL	herbaceous vines, regardless of size. Includes woo	dv
9.				plants, except woody vines, less than approximately	
10.				m) in height.	,
11.				Woody vine- All woody vines, regardless of height.	
12.	- ——			Trobby Time 7 in Woody Times, regulatess of Height.	
12.	99	= Total Cov		4	
NAVa a di a Mina a Chantaina (Diataina)		- Total Cov	EI		
Woody Vine Stratum (Plot size:					
1.				4	
2.					
3.				1	
4.				Hydrophytic	
5.				Vegetation Present? Yes <u>√</u> No_	<u>.</u>
	0	= Total Cov	er		
Remarks: (If observed, list morph	ological adapta	ations below).	·		
Percent cover estimates based of	n meandering s	survey of the I	oroader coi	mmunity.	

County/soil: Citrus- Boca	
SOIL	

SOIL	i. Citius Doca							Sampling Point: CS S
	scription: (Describe to	the depth i	needed to docu	ment the	indicator or co	nfirm the ab	sence of indicators.)	
Depth	Matrix	•			eatures			
(inches)	Color (moist)	% (	Color (moist)	%	Type <sup>1</sup>	Loc²	Texture	Remarks
0-5	10 YR 4/2							dark gravish brown fine sand
5-19	10 YR 7/1		<del></del>					light gray fine sand
19-21	10 YR 7/8							yellow fine sand
							common fine and	
							medium distinct	
21-38	10 YR 5/2		YR 5/6				mottles	grayish brown sandy clay loam
<u></u>								<u></u>
	Concentration, D=Deple	tion, RM=Re	duced Matrix, CS	S=Covere	ed or Coated Sar	nd Grains.	<sup>2</sup> Location: PL=Pore	
	il Indicators:							ndicators for Problematic Hydric Soils 3:
Histol			_	Polyv	alue Below Surfa	ce (S8) (LRR	S, T, U)	1 cm Muck (a9) (LRR O)
Histic	Epidon (A2)			Thin [	Oark Surface (S9	) (LRR S, T, U	J)	2 cm Muck (A10) (LRR S)
Black	Histic (A3)			Loam	y Mucky Mineral	(F1) (LRR O)		Reduced Vertic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)		_		y Gleyed Matrix (		-	Piedmont Floodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5)		_		ted Matrix (F3)	•	-	Anomalous Bright Loamy Soils (F20)
	ic Bodies (A6) (LRR P,	T, U)	_		k Dark Surfacé (I	-6)	-	(MLRA 153B)
5 cm	Mucky Mineral (A7) (LR	D D T III		Denle	ted Dark Surface	(F7)		Red Parent Material (TF2)
			_				•	<del></del>
IVIUCK	Presence (A8) (LRR U	,	-		c Depressions (F	0)		Very Shallow Dark Surface (TF12) (LRR T, U)
1 cm	Muck (A9) (LRR P,T)		-	Marl (	F10) (LRR U)			Other (Explain in Remarks)
Deple	ted Below Dark Surface	(A11)		Deple	ted Orchric (F11	(MLRA 151)		
ı—— ·	Dark Surface (A12)	(,,,,	_		langanese Mass		20 07)	
					-			Indicators of hydrophytic vegetation and wetland
Coast	Prairie Redox (A16) (M	ILRA 150A)	_	Umbr	ic Surface (F13)	(LKK P, 1, U)	'	hydrology must be present, unless disturbed or
Sandy	Mucky Mineral (S1) (Li	RR O. S)	_	Delta	Orchric (F17) (M	LRA 151)	ı	problematic.
	Gleyed Matrix (S4)		_	Redu	ced Vertic (F18)	MI RA 150A	150B)	
1	Redox (S5)		_	_	nont Floodplain S		•	
	ed Matrix (S6)		_				) (MLRA 149A, 153C,	153D)
			_		aloue Brigin Esa	, 00 (. 20	, (	,,
	Surface (S7) (LRR P, S	, T, U)						
1	e Layer (If observed):							
	Type:							
	Depth (inches):						Hydric Soil Presen	t? Yes X No .
Remarks:								
1								
i								
								•
İ								
L								

			Sampling Date: 10/15/09			
Applicant/Owner: Progress Energy Florida, Inc.			Sampling Point: CS T			
Investigator(s): Mike Arrants, Colleen Cunr						
Landform (hillslope, terrace, etc.): N/A			vex, none): none Slope (%):			
Subregion (LRR or MLRA): LRR U	Lat: _28.9614		2.621672 Datum: WGS84			
Soil Map Unit Name: Boca fine sand		NWI classification: N/A				
Are climatic / hydrologic conditions on the site ty	pical for this time of year?	Yes	_ No (If no, explain in Remarks)			
Are Vegetation, Soil,	or Hydrology	_ significantly disturbed?	Are circumstances normal? Yes_✓_No			
Are Vegetation, Soil,	or Hydrology	_ naturally problematic?	(If needed, explain any answers in Remarks)			
<b>SUMMARY OF FINDINGS - Attach si</b>	te map showing samp	ling point locations,	transects, important features, etc.			
Hydrophytic Vegetation Present?	Yes No					
Hydric Soil Present?	Yes ✓ No	Is the Sampled Area v	vithin a Wetland? Yes/ No			
Wetland Hydrology Present?	Yes No	i .	·			
Remarks: Depressional area/ditch around transn	nission line structure					
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)	Water-Stained Leaves	(B9)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Aquatic Fauna (B13)	. ,	Drainage Patterns (B10)			
✓ Saturation (A3)	Marl Deposits (B15) (LI	RR UI	Moss Trim Lines (B16)			
Water Marks (B1)	Hydrogen Sulfide Odor		Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Burrows (C8)			
· ` ` `	•	- , ,	<del></del> · , ,			
Drift Deposits (B3)	Presence of Reduced I		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Recent Iron Reduction					
fron Deposits (B5)	Thin Muck Surface (C7					
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	arks)	FAC Neutral Test (D5)			
Field Observations:						
Surface Water Present?	Yes No	Depth (inches):				
Water Table Present?	YesNo	Depth (inches): > 10	Wetland			
Saturation Present?	YesNo	Depth (inches): > 5	Hydrology			
(includes capillary fringe)			Present? Yes ✓ No			
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previou	us inspections), if available:				
Remarks:						
}						

VEGETATION - Use scientific nar	nes of plants			Sampling	g Point: _	<u> CS T</u>
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:		
1.				Number of Dominant Species	2	/A\
2.				That Are OBL, FACW, or FAC:	<u>3</u>	(A)
3.				Total Number of Dominant	2	(D)
4.				Species Across All Strata:	<u>3</u>	(B)
5.				Percent of Dominant Species	100.00	/A (D)
6.				That Are OBL, FACW, or FAC:	<u>100.00</u>	(A/B)
7.				Prevalance Index worksheet:		
	0	= Total Cove	r	Total % Cover of: Mult	tiply by:	
Sapling Stratum (Plot size:	)			OBL speciesx1=		_
1.				FACW species x2=		_
2.				FAC species x3=		_
3.				FACU speciesx4=		_
4.				UPL speciesx5=		_
5.				Column Totals:(A)		(B)
6.						
7.				Prevalance Index = B/A =		
		= Total Cove	l	Hydrophytic Vegetation Indicators:		
Shrub Stratum (Plot size:	_)			✓ Dominance Test is 50%		
1.				Prevalence Index is ≤3.01		
2.				Problematic Hydrophytic Vegetat	tion¹ (Exp	ılain)
3.						
4.				<sup>1</sup> Indicators of hydric soil and wetland hy		านรt
5.				be present, unless disturbed or problem	atic.	
6.				Definitions of Vegetation Strata:		
7.						
Herb Stratum (Plot size:)	0	= Total Cove		Tree- Woody plants, excluding woody vine approximately 20 ft (6m) or more in height	and 3 in.	(7.6
Andropogon glomeratus	70	yes	FACW	cm) or larger in diameter at breast height (	(DBH).	
Muhlenbergia spp.	20	yes	FAC	Sapling- Woody plants, excluding woody		
3. Phyla nodiflora	55	no	FACW	approximately 20 ft (6m) or more in height	and less	than 3
Andropogon virginicus	5	no	FAC	in. (7.6 cm) DBH.		
5. Sagittaria latifolia	1	no	OBL	Shrub- Woody plants, excluding woody vi		
6. Eupatorium capillifolium		no	FACU	approximately 3 to 20 ft (1 to 6 m) in heigh	ιτ.	
7. Erianthus giganteus		no	FACW	Herb- All herbaceous (non-woody)plants,		
8. Hyptis alata		no	OBL	herbaceous vines, regardless of size. Incl		•
9. Dichromena spp.		no	FACW	plants, except woody vines, less than appr m) in height.	roximately	/ 3 π (1
10. Rhexia spp.	1	no	FACW	´		
11. Micromeria spp.	1	no	NL	Woody vine- All woody vines, regardless	of neight.	
12. Cyperus spp.		no no	FACW			
	108	= Total Cove	r			
Woody Vine Stratum (Plot size:	)					
Ampelopsis arborea	1	yes	FAC	1		
2.						
3.				<del> </del>		
4.				Hydrophytic	M -	
5.		- Total Carra		Vegetation Present? Yes	No	<del></del>
Demorks (If the second list as a list	1	= Total Cove	<u> </u>	<u> </u>		
Remarks: (If observed, list morph Percent cover estimates based or	•		roader cor	mmunity		

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' Lod' Texture  Remarks    Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Color (moist) % Type' Lod' Texture   Common fine and medium distinct mottles   Common fine and medium distinct mottles   Common fine and medium distinct mottles   Common fine and medium distinct mottles   Common fine and medium distinct mottles   Common fine and medium distinct mottles   Common fine and medium distinct mottles   Common fine and medium distinct mottles   Common fine and medium distinct mottles   Common fine and medium distinct mottles   Common fine and medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow Insand Julian Medium distinct mottles   Color (moist) Yellow	SOIL										Sam	pling Point:	C
Color (moist)   %   Color (moist)   %   Type'   Loc'   Texture   Remarks			o the dep	th needed to doc			confirm the at	sence of indicators.	.)				
D.5   10 YR 4/Z	•							_			-		
Section   Page	inches)	Color (moist)		Color (moist)		Type	Loc	lexture			Kema	arks	
10 YR 7/8	)-5	10 YR 4/2							dark grayish b	rown fir	ne sand		
Common fine and medium distinct mottles grayish brown sandy clay loam  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.  Thiotal Sandy Reduced Matrix, CS=Covered or Coated Sand Grains.  Thictory Carcing, M=Matrix, CS (S) (LRR O, D)  Thin Dark Surface (S1) (LRR O, S) (LRR O, D, T)  Popleted Below Surface (R12) (LRR O, D, T)  Popleted Below Dark Surface (R12) (LRR O, P, T)  Popleted Below Dark Surface (R12) (LRR O, P, T)  Popleted Below Dark Surface (R12) (LRR O, P, T)  Depleted Below Dark Surface (R12) (LRR O, P, T)  Depleted Below Dark Surface (R12) (LRR O, P, T)  Popleted Surface (R12) (LRR O, P, T)  Popleted Surface (R12) (LRR O, P, T)  Popleted Surface (R12) (LRR O, P, T)  Popleted Surface (R12) (LRR O, P, T)  Popleted Surface (R12) (LRR O, P, T)  Popleted Surface (R12) (LRR O, P, T)  Popleted Surface (R12) (LRR O, P, T)  Popleted Surface (R12) (LRR O, P, T)  Popleted Surface (R12) (LRR O, P, T)  Popleted Surf	5-19	10 YR 7/1							light gray fine	sand			
21-38 10 YR 5/2 10 YR 5/6 medium distinct mottles grayish brown sandy clay loam  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.  Pydric Soil Indicators: Histol (A1) Histic Epidon (A2) Histic Epidon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Stratified Layers (A5) Depleted Matrix (F2) Stratified Layers (A5) Depleted Dark Surface (F6) Muck Presence (A8) (LRR P, T, U) Peleted Dark Surface (F7) Muck Presence (A8) (LRR V, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Forchric (F11) (MLRA 151) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR O, S) Depleted Orchric (F13) (LRR O, F1, U) Sandy Mucky Mineral (S1) (LRR O, S) Depleted Orchric (F13) (LRR O, F1, U) Peleted Orchric (F13) (MLRA 150A, 150B) Sandy Redox (A16) (MLRA 150A) Depleted Orchric (F13) (MLRA 1514) Peleted Orchric (F13) (MLRA 150A) Sandy Mucky Mineral (S1) (LRR O, S) Delta Orchric (F17) (MLRA 1514) Depleted Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed): Type: Depth (inches):  Hydric Soil Present?  Yes X No	9-21	10 YR 7/8							yellow fine sar	nd			
21-38   10 YR 5/2   10 YR 5/6   mottles   grayish brown sandy clay loam							-						
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.  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 3:  Indicators for Problematic Hydric Soils 5:  Indicators for Problematic Hydric Soils 5:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soil Present?  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soil Present?  Indicators for Problematic Hydric Soils 4:  Indicators for Problematic Hydric Soils Present?  Indicators for Problematic Hydric Soils Present?  Indicators for Problematic Hydric Soils Present?  Indicators for Problematic Hydric Soils Present?  Indicators for Problematic Hydric Soils Present?  Indicators for Problematic Hydric Soils Present?  Indicators													
Hydric Soil Indicators: Histor (A1) Histic Epidon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) Depleted Matrix (F3) Anomalous Bright Loamy Soils (F20) Muck (A9) (LRR P, T, U) Depleted Dark Surface (F7) Muck (A9) (LRR P, T, U) Depleted Dark Surface (F7) Muck (A9) (LRR P, T, U) Depleted Dark Surface (F7) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Depleted Orchric (F11) (MLRA 151) Thick Dark Surface (A12) Depleted Orchric (F11) (MLRA 151) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Depleted Vertic (F13) (MLRA 150A) Piedmont Floodplain Soils (F10) Anomalous Bright Loamy Soils (F20) Marl (F10) (LRR U) Depleted Below Dark Surface (A12) Depleted Deressions (F8) Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S6) Dark Surface (S8) (LRR S, T, U) Piedmont Floodplain Soils (F10) (MLRA 150A) Dark Surface (F10) Depleted Dark Surface (F10) Depleted Dark Surface (F10) Depleted Dark Surface (F10) Depleted Below Dark Surface (F	1-38	10 YR 5/2		10 YR 5/6				mottles	grayish brown	sandy	clay loa	m	
Hydric Soil Indicators: Histo (A1) Histo (A2) Histo Epidon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) History Godies (A6) Hydrogen Suffide (A4) Loamy Gleyed Matrix (F2) Depleted Below Surface (A8) Loamy Surface (A8) Loamy Gleyed Matrix (F3) Fedox Dark Surface (A8) Loamy Gleyed Matrix (F3) Anomalous Bright Loamy Soils (F20) Mark (F10) (LRR P, T, U) Pepleted Dark Surface (F6) Mark (F10) (LRR P, T, U) Depleted Dark Surface (F7) Mark (F10) (LRR P, T) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Loamy Gleyed Matrix (F3) Mark (F10) (LRR U) Depleted Orchric (F11) (MLRA 151) Thick Dark Surface (A12) Loamy Gleyed Matrix (F3) Depleted Dark Surface (F12) (LRR O, P, T) Stratified Layers (A5) Surface (A12) Depleted Dark Surface (F13) (LRR O, P, T) Seandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S6) Dark Surface (F17) Depth (Increase) Anomalous Bright Loamy Soils (F20) Mark Surface (F17) Mark Grease Anomalous Bright Loamy Soils (F20) Mink Rufface (F17) Mark Surface (F17) Mark Surface (F17) Mark (F18) Mark (F19) (LRR U) Depleted Below Dark Surface (F11) Mark (F10) (LRR U) Depleted Below Dark Surface (F11) Mark (F11) (MLRA 151) Thick Dark Surface (A12) Loamy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Mucky Mineral (S1) (LRR O, S) Sandy Gleyed Matrix (S6) Anomalous Bright Loamy Soils (F20) (MLRA 149A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes X No													
Hydric Soil Indicators: Histo (A1) Histo (A2) Histo Epidon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Surface (A8) (LRR P, T, U) Loamy Mucky Mineral (F1) (LRR O) Hord Muck (A9) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Loamy Mucky Mineral (A1) (LRR P, T) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (A1) (LRR D) Sandy Mucky Mineral (A1) (LRR D) Loamy Mucky Mineral (A1) (LRR P, T) Depleted Orchric (F11) (MLRA 151) Thick Dark Surface (A12) Loamy Mucky Mineral (A1) (LRR D) Depleted Dark Surface (F12) (LRR D, P, T) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (A1) (MLRA 150A) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Loamy Gleyed Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Loamy Gleyed Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Loamy Gleyed Matrix (F10) (LRR D, P, T)  Loamy Gleyed Matrix (F10) (LRR D, P, T)  Depleted Dark Surface (F11) (MLRA 151) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Load F10 (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleye													
Hydric Soil Indicators: Histo (A1) Histo (A2) Histo Epidon (A2) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Below Surface (A8) (LRR P, T, U) Loamy Mucky Mineral (F1) (LRR O) Hord Muck (A9) (LRR P, T, U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Loamy Mucky Mineral (A1) (LRR P, T) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (A1) (LRR D) Sandy Mucky Mineral (A1) (LRR D) Loamy Mucky Mineral (A1) (LRR P, T) Depleted Orchric (F11) (MLRA 151) Thick Dark Surface (A12) Loamy Mucky Mineral (A1) (LRR D) Depleted Dark Surface (F12) (LRR D, P, T) Depleted Below Dark Surface (A12) Loamy Mucky Mineral (A1) (MLRA 150A) Loamy Gleyed Matrix (F2) Loamy Gleyed Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Loamy Gleyed Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Loamy Gleyed Matrix (F3) Anomalous Bright Loamy Soils (F20) (MLRA 153B) Loamy Gleyed Matrix (F10) (LRR D, P, T)  Loamy Gleyed Matrix (F10) (LRR D, P, T)  Depleted Dark Surface (F11) (MLRA 151) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Load F10 (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleyed Matrix (F10) (MLRA 150A) Loamy Gleye	Type: C=	Concentration D=Dent	etion PM	-Peduced Matrix I	~ <del></del>	ed or Coated	Sand Grains	21 ocation: DI =Dor	a Linina M-Matri				
Histol (A1)			GUOTI, IXIVI	-iteduced ividuix,	30-cover	ed or Coaled	Janu Oranis.	Location. F L-F of			atic Hv	dric Soils 3.	
Histic Epidon (A2)  Black Histic (A3)  Black Histic (A3)  Loamy Mucky Mineral (F1) (LRR O)  Hydrogen Suffide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Depleted Matrix (F3)  Mark (F10) (LRR V)  Depleted Dark Surface (F7)  Medox Depressions (F8)  Mark (F10) (LRR U)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A11)  Depleted 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 Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Sandy Redox (S5)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes X No					Polyv	alue Below Su	rface (S8) (LRF	R S. T. U)					
Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  Feedox Dark Surface (F6)  Other Muck y Mineral (A7) (LRR P,T,U)  Depleted Dark Surface (F7)  Muck Presence (A8) (LRR P,T)  Depleted Below Dark Surface (F7)  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 Gleyed Matrix (S4)  Sandy Redox (S5)  Dark Surface (S7) (LRR P, S, T, U)  Redox Depressions (F8)  Marl (F10) (LRR U)  Depleted Orchric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Delta Orchric (F17) (MLRA 150A)  Sandy Redox (S5)  Sandy Redox (S5)  Dark Surface (S7) (LRR P, S, T, U)  Redox Depressions (F8)  Very Shallow Dark Surface (TF12) (LRR T, U)  Other (Explain in Remarks)  Other (Explain in Remarks)  Jumbric Surface (F13) (LRR O, P,T)  Andicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Problematic.  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present? Yes X No		• •						-					
Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, U) For Mucky Mineral (A7) (LRR P,T,U) Depleted Dark Surface (F7) Muck Presence (A8) (LRR U)  Torm Muck (A9) (LRR P,T) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below 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)  Redox Depressions (F8) Marl (F10) (LRR U) Depleted Orrchric (F11) (MLRA 151) Iron-Manganese Masses (F12) (LRR O, P,T) Jindicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Reduced Vertic (F17) (MLRA 151) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes X No	_ ' ' '				Loam	y Mucky Mine	ral (F1) (LRR O	)	Reduced Ve	rtic (F1	8) (outs	side MLRA 15	0A, B)
Organic Bodies (A6) (LRR P, T, U)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12) (LRR T, U)  1 cm Muck (A9) (LRR P,T)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type:  Depth (inches):  Mard (F10) (LRR U)  Depleted Dark Surface (F7)  Redox Dark Surface (F7)  Mard (F10) (LRR U)  Depleted Orchric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  John (LRR D, P,T)  John (LRR D, P,T)  John (MLRA 150A)  John (LRR D, P,T)  John (MLRA 150A)  John (LRR D, P,T)  John (MLRA 150A)  John (M									Piedmont Flo	oodplair	n Soils (	F19) (LRR P,	S, T)
											oamy S	oils (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)  Restrictive Layer (If observed):  Type:  Depth (inches):  Mart (F10) (LRR U)  Medox Depressions (F8)  Mart (F10) (LRR U)  Medox Depressions (F8)  Mart (F10) (LRR U)  Depleted Orchric (F11) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  JIndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  JINDICATE (F17) (MLRA 151)  Problematic.  Reduced Vertic (F18) (MLRA 150A, 150B)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes X No .							` '		•	•			
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)  Restrictive Layer (If observed):  Type:  Depth (inches):  Mart (F10) (LRR U)  Depleted Orchric (F10) (MLRA 151)  Iron-Manganese Masses (F12) (LRR O, P,T)  JIndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Petalor (F17) (MLRA 151)  Problematic.  Problematic.  Problematic.  Anomalous Bright Loamy Soils (F19) (MLRA 149A)  Anomalous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes X 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)  Sandy Redox (S6)  Dark Surface (S7) (LRR P, S, T, U)  Dark Surface (S7) (LRR P, S, T, U)  Problematic.  Anomalous Bright Loarny Soils (F20) (MLRA 149A, 153C, 153D)  Destrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes X No	Muck Presence (A8) (LRR U)			Redo	x Depressions	(F8)		Very Shallov	/ Dark S	Surface	(TF12) (LRR	T, U)	
Thick Dark Surface (A12)	1 cm Muck (A9) (LRR P,T)			Mart	(F10) (LRR U)			Other (Expla	in in Re	emarks)			
Coast Prairie Redox (A16) (MLRA 150A)	Deple	ted Below Dark Surfac	e (A11)		Deple	eted Orchric (F	11) (MLRA 151	)					
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 149A)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes X No	Thick	Dark Surface (A12)			lron-l	Manganese Ma	3Indicators of hydrophytic vocatation and watland						
Sandy Mucky Mineral (S1) (LRR O, S)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Piedmont Floodplain Soils (F19) (MLRA 149A)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):  Type:  Depth (inches):  Hydric Soil Present?  Yes X No .	—— Coast	Prairie Redox (A16) (	<b>ΜΙ ΒΔ 15</b> 0	ιΔι	11 1 1 0 ( (E(O) (I DD D T 1))			hydrology must be present, unless disturbed or					
Sandy Mickey Millerial (S4)		, ,,		•							'		
			.KK U, 3)					150R)					
Stripped Matrix (S6)Anomalous Bright Loarny Soils (F20) (MLRA 149A, 153C, 153D) Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):													
Dark Surface (S7) (LRR P, S, T, U)  Restrictive Layer (If observed):							, ,,	,	153D)				
Restrictive Layer (If observed): Type: Depth (inches): Hydric Soil Present? Yes X No .		` '	· • 10			alous Eligin E		o, ( <u>-</u>	,,				
Type:													
Depth (inches): Hydric Soil Present? Yes X No .	restrictiv												
								Hydric Soil Prese	nt? Yes	¥	No		
Remarks:	Remarks:	Depti (mones).						Tryano Con Freder	103		110		

Project/Site: Levy Baseload Transmission Progra	ım. LCR	City/County: Citrus		Sampling Date: 10/1	15/09
Applicant/Owner: Progress Energy Florida, Inc.		- · · ———		- , ,	
Investigator(s): Mike Arrants, Colleen Cunn					
Landform (hillslope, terrace, etc.): N/A		Local relief (concave, conv			):
Subregion (LRR or MLRA): LRR U		•			
Soil Map Unit Name: Boca fine sand			NWI classification:		
Are climatic / hydrologic conditions on the site type	sical for this time of year?			(If no, explain in Remar	·ks)
	or Hydrology		Are circumstances		
	or Hydrology			any answers in Remarks	
SUMMARY OF FINDINGS - Attach sit				•	•
Hydrophytic Vegetation Present?	YesNo	T T T T T T T T T T T T T T T T T T T	danoodo, mp	Turit routaroo, ota	
Hydric Soil Present?	YesNo	Is the Sampled Area w	vithin a Wetland?	YesNo	
Wetland Hydrology Present?	YesNo				
Remarks: Isolated, man-made pit/ditch around tra		<b>-</b>			
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicate	ors (minimum of two requ	uired)
Primary Indicators (minimum of one is required; of	check all that apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (	(B9)	Sparsely Veg	etated Concave Surface	e (B8)
High Water Table (A2)	Aquatic Fauna (B13)	`	Drainage Pat	terns (B10)	
✓ Saturation (A3)	Marl Deposits (B15) (LF	RR U)	Moss Trim Li	nes (B16)	
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Dry-Season \	Water Table (C2)	
Sediment Deposits (B2)	Oxidized Rhizospheres	on Living Roots (C3)	Crayfish Burr	rows (C8)	
Drift Deposits (B3)	Presence of Reduced Ir	ron (C4)	Saturation Vi	sible on Aerial Imagery (	(C9)
Algal Mat or Crust (B4)	Recent Iron Reduction i	in Tilled Soils (C6)Geomorphic Position (D2)			•
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema		Test (D5)		
Field Observations:		,			
Surface Water Present?	Yes No ✓	Depth (inches):	1		
Water Table Present?	YesNo	. , ,			
Saturation Present?	Yes No		Wetland		
(includes capillary fringe)	140	Deptir (menes)	Hydrology Present?	Yes ✓ No	
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previou	is inspections), if available:	Fresents	res <u>v</u>	<del></del>
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3 , , , , , , , , , , , , , , , , , , ,	, ,,			
Paradia	<del></del>	<u> </u>			<del></del>
Remarks:					
·					

VEGETATION - Use scientific na	mes of plants			Sai	mpling Point: _	CS U
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:		
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:	2	(A)
3.	<del></del>			Total Number of Dominant		
4.				Species Across All Strata:	<u>2</u>	(B)
5.	·			1		
6.	· ———			Percent of Dominant Species That Are OBL, FACW, or FAC:	<u>100.00</u>	(A/B)
7.	· ——			Prevalance Index worksheet:		
	0	= Total Cove		Total % Cover of:	Multiply by:	
Sapling Stratum (Plot size:	_	Total Gove	1	OBL speciesx1		_
1	·			FACW species x2	?=	_
2.	•			FAC speciesx3	}= <u> </u>	
3.				FACU speciesx4	l=	
4.				UPL speciesx5	i=	
5.				Column Totals: (A	)	(B)
6.						
7.				Prevalance Index = B/A =		
		= Total Cove	1	Hydrophytic Vegetation Indicate	rs:	
Shrub Stratum (Plot size:	_)			✓ Dominance Test is 50%		
1.				Prevalence Index is ≤3.0 <sup>1</sup>		
2.				Problematic Hydrophytic Ve	egetation <sup>1</sup> (Exp	olain)
3.						
4.				<sup>1</sup> Indicators of hydric soil and wetla	nd hydrology n	nust
5.				be present, unless disturbed or pro	blematic.	
6.				Definitions of Vegetation Strata:		
7.						
Herb Stratum (Plot size:)	0	= Total Cove	r	Tree- Woody plants, excluding wood approximately 20 ft (6m) or more in l	•	(7.6
Andropogon glomeratus	20	yes	FACW	cm) or larger in diameter at breast h	eight (DBH).	
Andropogon virginicus	20	yes	FAC	Sapling- Woody plants, excluding w	oody vines,	
Phyla nodiflora	10	no	FACW	approximately 20 ft (6m) or more in I		than 3
4. Centella asiatica	10	no	FACW	in. (7.6 cm) DBH.		
5. Diodia virginiana	10	no	FACW	Shrub- Woody plants, excluding woody vines,		
6. Fuirena spp.	1	no	OBL	approximately 3 to 20 ft (1 to 6 m) in	height.	
7. Eupatorium capillifolium	1	no	FACU	Herb- All herbaceous (non-woody)pl	ants, including	
<ol><li>Dichromena spp.</li></ol>	11	no	FACW	herbaceous vines, regardless of size	. Includes woo	ody
9. Urochloa plantaginea	1	no	NL	plants, except woody vines, less that	n approximately	/ 3 ft (1
<ol><li>Hydrocotyle spp.</li></ol>	1	no	OBL.	m) in height.		
11. Hyptis alata	1	no	OBL	Woody vine- All woody vines, regard	dless of height.	
12. Cyperus spp.	1	no	FACW			
Woody Vine Stratum (Plot size: 1.	) 77	= Total Cove	r			
1. 2.						
3.					· · · · · · · · · · · · · · · · · · ·	
4.				Hydrophytic		
3. 4. 5.				Vegetation Present? Yes	✓ No	
		= Total Cove	r			<del></del>
Remarks: (If observed, list morpho				<u> </u>		
Percent cover estimates based or			oader con	nmunity.		

Profile Des Depth								Sampling Point:C		
	scription: (Describe	to the de	pth needed to doo			confirm the at	sence of indicators	.)		
•	Matrix		0-1 ('-1)		Features		<b></b>	5 .		
inches)	Color (moist)		Color (moist)	%	Type'	Loc	Texture	Remarks		
)-5	10 YR 4/2							dark grayish brown fine sand		
5-19	10 YR 7/1							light gray fine sand		
19-21	10 YR 7/8							yellow fine sand		
							common fine and			
							medium distinct			
21-38	10 YR 5/2		10 YR 5/6				mottles	grayish brown sandy clay loam		
							-			
	Concentration, D=Depl	etion, RN	l=Reduced Matrix,	CS=Cove	red or Coated S	Sand Grains.	*Location: PL=Poi	re Lining, M=Matrix.		
	Il Indicators:			0-1-		-f (CO) (LDF		Indicators for Problematic Hydric Soils 3:		
Histol (A1) Histic Epidon (A2)					rface (S8) (LRF		1 cm Muck (a9) (LRR O)			
Black Histic (A3)					S9) (LRR S, T,		2 cm Muck (A10) (LRR S)			
Hydrogen Sulfide (A4)					ny Mucky Miner ny Gleved Matr	ral (F1) (LRR O	)	Reduced Vertic (F18) (outside MLRA 150A, B)		
	ed Layers (A5)				ny Gieyed Maii leted Matrix (F3			Piedmont Floodplain Soils (F19) (LRR P, S, T)		
	ic Bodies (A6) (LRR P	. T. U)			ox Dark Surface			Anomalous Bright Loamy Soils (F20) (MLRA 153B)		
	Mucky Mineral (A7) (LI	-	•		eted Dark Surfa			Red Parent Material (TF2)		
	Presence (A8) (LRR I		7		ox Depressions	, ,		Very Shallow Dark Surface (TF12) (LRR T, U)		
		,		_	•	. ,		. ,, , ,		
1 cm Muck (A9) (LRR P,T)			мап	(F10) (LRR U)			Other (Explain in Remarks)			
Deplet	ed Below Dark Surfac	e (A11)		Depl	eted Orchric (F	11) (MLRA 151	)			
Thick [	Dark Surface (A12)			Iron-Manganese Masses (F12) (LRR O, P,T)Umbric Surface (F13) (LRR P, T, U)				<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.		
Coast	Prairie Redox (A16) (I	VILRA 15	0A)							
Sandy	Mucky Mineral (S1) (L	PP O S	,	Delta Orchric (F17) (MLRA 151)						
	Gleyed Matrix (S4)	O, O	,		uced Vertic (F1					
	Redox (S5)					Soils (F19) (M				
	ed Matrix (S6)					, , ,	) (MLRA 149A, 1530	C. 153D)		
	, ,	· +			naidad birgin E	ounny como (1 2 1	, (2.01 1 10.1, 1001	5, 1005,		
	Surface (S7) (LRR P, S	<u> </u>	•							
	Layer (If observed):									
	Type: Depth (inches):						Hydric Soil Prese	nt? Yes X No .		
Remarks:	Deptit (inches).						Inyunc Son Fresei	itt tes A NO .		

Project/Site: Levy Reselved Transmission Progr	am ICP	City/County: Citrue		Sampling Date: 10/15/09		
Applicant/Owner: Progress Energy Florida, Inc.		City/County:CitrusSampling Date:10/15/09State:FLSampling Point: CS V				
Investigator(s): Mike Arrants, Colleen Cunr						
Landform (hillslope, terrace, etc.): N/.						
		Local relief (concave, convex, none):none         Slope (%           502Long: -82.622161         Datum:				
Soil Map Unit Name: Boca fine sand	Lat <u>20.3013</u>			palustrine emergent		
Are climatic / hydrologic conditions on the site ty	mical for this time of year?			(If no, explain in Remarks)		
	or Hydrology		Are circumstances			
	or Hydrology			any answers in Remarks)		
SUMMARY OF FINDINGS - Attach si				•		
Hydrophytic Vegetation Present?	YesNo		transcetts, impe	runt reatures, etc.		
Hydric Soil Present?	Yes✓No	Is the Sampled Area v	vithin a Wetland?	YesNo		
Wetland Hydrology Present?	Yes✓No	1				
Remarks: Isolated, depressional wetland, very m		<del></del>				
HYDROLOGY						
Wetland Hydrology Indicators:	-100		Secondary Indicate	ors (minimum of two required)		
Primary Indicators (minimum of one is required;	check all that anniv)		Surface Soil			
Surface Water (A1)	Water-Stained Leaves	(B9)		etated Concave Surface (B8)		
High Water Table (A2)	Aquatic Fauna (B13)	(50)	Drainage Pat			
✓ Saturation (A3)	Marl Deposits (B15) (LF	PR III	Moss Trim Li	. ,		
Water Marks (B1)	Hydrogen Sulfide Odor	•	<del></del>	Water Table (C2)		
Sediment Deposits (B2)	Oxidized Rhizospheres		Crayfish Burr			
Drift Deposits (B3)	Presence of Reduced I		<del></del> •	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Recent Iron Reduction	, ,	Geomorphic	- · · ·		
Iron Deposits (B5)	Thin Muck Surface (C7	` '	Shallow Aqui	• •		
Inundation Visible on Aerial Imagery (B7)		•	FAC Neutral	• •		
Field Observations:						
Surface Water Present?	Yes No	Depth (inches):				
Water Table Present?	Yes <u>✓</u> No	Depth (inches): > 10				
Saturation Present?	Yes/No	Depth (inches): > 10	Wetland			
(includes capillary fringe)			Hydrology Present?	Yes <u>✓ No</u>		
	ring well, aerial photos, previou	ie inenactione) if available:				

VEGETATION - Use scientific na	mes of plants				Sampling Point: _	CS V
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:	<del> </del>	
	COVE	opedes:	Status	Number of Dominant Species		
<u>1.</u> 2.				That Are OBL, FACW, or FAC:	<u>4</u>	(A)
				Total Number of Dominant		
3.	. ———			Species Across All Strata:	<u>4</u>	(B)
4.	·			<del> </del>		
5.				Percent of Dominant Species	<u>100.00</u>	(A/B)
<u>6.</u> 7.				That Are OBL, FACW, or FAC: Prevalance Index worksheet:	,	
7.					N.A. aldimba bass	
Sapling Stratum (Plot size:	0	= Total Cove	er .	Total % Cover of: OBL species	Multiply by: x1=	
	/			· · —	.x2=	-
1.				FACW species FAC species	x3=	-
2.				<u> </u>	.x3 x4=	-
3.	·			FACU species		-
4.	·			UPL species	x5=	- <sub>(B)</sub>
5.				Column Totals:	(A)	_(B)
6.				Brandana Indan - D/A -		
7.		= Total Cove		Prevalance Index = B/A =	ntoro:	
Charle Ctantum (Blat sine)		- Total Cove	:1	Hydrophytic Vegetation Indicators  ✓ Dominance Test is 50%	ators.	
Shrub Stratum (Plot size:	_)			<del></del>	.1	
1.				Prevalence Index is ≤3.0		
2.				Problematic Hydrophytic	vegetation (Exp	nain)
3.				1		
4.	<del></del>			Indicators of hydric soil and we		nust
5.				be present, unless disturbed or		
6.				Definitions of Vegetation Stra	ita:	
7.				4		
Herb Stratum (Plot size:)	0	= Total Cove	er	Tree- Woody plants, excluding war approximately 20 ft (6m) or more	in height and 3 in.	(7.6
Urochloa plantaginea	40	yes	NL	cm) or larger in diameter at breas	t height (DBH).	
2. Erianthus giganteus	20	yes	FACW	Sapling- Woody plants, excluding		
<ol><li>Andropogon glomeratus</li></ol>	20	yes	FACW	approximately 20 ft (6m) or more	in height and less	than 3
4. Andropogon virginicus	5	no	FAC	in. (7.6 cm) DBH.		
5. Hyptis alata	5	no	OBL	Shrub- Woody plants, excluding	•	
6. Smilax spp.	1	no	FAC	approximately 3 to 20 ft (1 to 6 m)	) in height.	
7. Phyla nodiflora	1	no	FACW	Herb- All herbaceous (non-wood)	y)plants, including	
8.				herbaceous vines, regardless of		
9.				plants, except woody vines, less t	than approximately	/ 3 ft (1
10.				m) in height.		
11.				Woody vine- All woody vines, re	gardless of height.	
12.				]		
	92	= Total Cove	er .			
Woody Vine Stratum (Plot size:	)					
Mikania scandens	1	yes	FACW	1		
Ampelopsis arborea	1	yes	FAC			
3.				1	<del></del>	
4.				Hydrophytic		
5.				Vegetation Present? Yes	No	<u> </u>
	2	= Total Cove	er	]		
Remarks: (If observed, list morph		•	roader co	mmunity		

County/soil: Citrus- Boca		
0011		

SOIL									Sampling Point: CS V
Profile De	scription: (Describe	to the dep	th needed to doc	ument the	e indicator or	confirm the ab:	sence of indicators.)	)	
Depth	Matrix			Redox	Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks
0-5	10 YR 4/2								rown fine sand
5-19	10 YR 7/1							light gray fine s	sand
19-21	10 YR 7/8							yellow fine san	ıd
21-38	10 YR 5/2		10 YR 5/6				common fine and medium distinct mottles	grayish brown	sandy clay loam
Type: C=	Concentration, D=Dep	letion RM:	- Peduced Matrix (	S=Cover	ad or Coated 9	Sand Crains	<sup>2</sup> Location: PL=Pore	Lining M-Matrix	
	il Indicators:	iction, raisi	-reduced Matrix, C	JO-COVE	ed of Coaled C	Sailu Gialis.			roblematic Hydric Soils <sup>3</sup> :
Histol				Poha	alue Bolow Su	rface (S8) (LRR			
_	Epidon (A2)		,					1 cm Muck (a	
	Histic (A3)		•			S9) (LRR S, T, U	יי.		A10) (LRR S)
	, ,		,			ral (F1) (LRR O)	-		rtic (F18) (outside MLRA 150A, B)
	gen Sulfide (A4)				y Gleyed Matri				oodplain Soils (F19) (LRR P, S, T)
	ied Layers (A5) nic Bodies (A6) (LRR F	P, T, U)			ted Matrix (F3 x Dark Surface		-	Anomalous B (MLRA 153	Bright Loamy Soils (F20) BB)
5 cm	Mucky Mineral (A7) (L	RR P.T.UI		Deple	ted Dark Surfa	ace (F7)			Material (TF2)
	Presence (A8) (LRR		,		x Depressions		•		Dark Surface (TF12) (LRR T, U)
i	Muck (A9) (LRR P,T)	٠,			F10) (LRR U)		•		in in Remarks)
	ted Below Dark Surface	- (Δ11)				11) (MLRA 151)	•	Other (Explai	Till Kellarks)
	Dark Surface (A12)	•			sses (F12) (LRF	O D T)			
	Prairie Redox (A16) (	ιΔ)		-	3) (LRR P, T, U)			rophytic vegetation and wetland	
Sandy Mucky Mineral (S1) (LRR O, S)					Orchric (F17)			nydrology must bi problematic.	e present, unless disturbed or
Sandy Mucky Milneral (S1) (ERR O, S)Sandy Gleyed Matrix (S4)						8) (MLRA 150A,	150R)		
	Redox (S5)		•		•	Soils (F19) (ML	,		
	ed Matrix (S6)		•		•	, ,,	(MLRA 149A, 153C,	453D)	
			•		alous Bright E	ourny cons (1 20,	(MEICH 143A, 133C,	, 1000/	
	Surface (S7) (LRR P, : e Layer (If observed)								
	Type:	•							
	Depth (inches):						Hydric Soil Present	t? Yes	X No .
Remarks:							Triyana Son Fresen	103	X 140 .
remarks.									
							•		
									•
									'

		_ City/County: Citrus	Sampling Date: 10/15/09				
Applicant/Owner: Progress Energy Florida, Inc.		State: FL	Sampling Point: CS W				
Investigator(s): Mike Arrants, Colleen Cunn		_Section, Township, Range	32 17S 17E				
Landform (hillstope, terrace, etc.): N//	<del>\</del>	Local relief (concave, conv	/ex, none): <u>none</u> Slope (%):				
Subregion (LRR or MLRA): LRR U	Lat:28.9601	62 Long: -82	.616142 Datum: WGS84				
Soil Map Unit Name: Tavares fine sand			NWI classification: _palustrine emergent				
Are climatic / hydrologic conditions on the site type	oical for this time of year?	Yes	No (If no, explain in Remarks)				
Are Vegetation, Soil,	or Hydrology	_significantly disturbed?	Are circumstances normal? Yes_ ✓ No				
Are Vegetation, Soil	or Hydrology	_naturally problematic?	(If needed, explain any answers in Remarks)				
SUMMARY OF FINDINGS - Attach si	te map showing samp	ling point locations,	transects, important features, etc.				
Hydrophytic Vegetation Present?	Yes No						
Hydric Soil Present?	Yes No	Is the Sampled Area w	rithin a Wetland? YesNo				
Wetland Hydrology Present?	YesNo						
Remarks: Depressional wetland within transmiss	ion line, soils marginal						
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)	Water-Stained Leaves	(B9)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)	Aquatic Fauna (B13)	,	Drainage Patterns (B10)				
✓ Saturation (A3)	Marl Deposits (B15) (LF	SR (I)	Moss Trim Lines (B16)				
Water Marks (B1)	Hydrogen Sulfide Odor	•	Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Oxidized Rhizospheres	•					
<del></del>	· ·		Crayfish Burrows (C8)				
Drift Deposits (B3)	Presence of Reduced I	• •	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Recent Iron Reduction	• •	Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7	•	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	rks)	FAC Neutral Test (D5)				
Field Observations:			·				
Surface Water Present?	Yes No ✓		1				
Water Table Present?	Yes No	Depth (inches): > 10	Wetland				
Saturation Present?	Yes <u>✓</u> No	Depth (inches): > 5	Hydrology				
(includes capillary fringe)			Present? Yes <u>√</u> No				
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previou	is inspections), if available:					
Remarks:							

VEGETATION - Use scientific na	mes of plants			Sampling Po	oint: CS W					
Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet:	<u> </u>					
1. 2.				Number of Dominant Species That Are OBL, FACW, or FAC:	<u>2</u> (A)					
3.	-			Total Number of Dominant	<u>3</u> (B)					
4.	-			Species Across All Strata:	2 (0)					
5.	-			Percent of Dominant Species 66.	.67 (A/B)					
6.	·			That Are OBL, FACW, or FAC:	.01 (~15)					
7.	-			Prevalance Index worksheet:						
O - I'm a Chaster (Diet sine)		= Total Cove	:r	Total % Cover of: Multiply	<u>v_by:</u>					
Sapling Stratum (Plot size:	)			OBL species x1=						
1.				FACW speciesx2=						
<u>2.</u> 3.				FAC species x3=						
4.				FACU species x4=						
<u>4.</u>				UPL speciesx5=						
6.				Column Totals:(A)	(B)					
6. 7.				Decirations Indox = D/A =						
1.		= Total Cove	<u> </u>	Prevalance Index = B/A = Hydrophytic Vegetation Indicators:						
Shrub Stratum (Plot size:		- 10ta 0010	1	✓ Dominance Test is 50%						
Baccharis sp.	/ 1	yes	FAC	Prevalence Index is ≤3.0 <sup>1</sup>						
	·	yes	FAC	Problematic Hydrophytic Vegetation	1 (Evalain)					
2.  2		<del></del>		Flobienialic Hydrophylic vegetation	(Explair)					
<u> </u>	• ———			Indicators of hydric soil and wetland hydro	!					
2. 3. 4. 5.	• ———			be present, unless disturbed or problematic						
6.	• ———			Definitions of Vegetation Strata:	<i>).</i>					
7.	. ——	<del></del>		Donning of Togomicon Cham.						
Herb Stratum (Plot size:)	1	1 = Total Cover		Tree- Woody plants, excluding woody vines, approximately 20 ft (6m) or more in height and 3 in. (7.6						
Solidago canadensis	65	yes	FACU	cm) or larger in diameter at breast height (DB	•					
Erianthus giganteus	15	no	FACW	Sapling- Woody plants, excluding woody vine	oe .					
3. Ambrosia spp.	5	no	FAC	approximately 20 ft (6m) or more in height and						
Eleocharis spp.	5	no	OBL	in. (7.6 cm) DBH.						
5. Chasmanthium spp.	5	no	FAC	Shrub- Woody plants, excluding woody vines	١.					
6. Andropogon glomeratus	1	no	FACW	approximately 3 to 20 ft (1 to 6 m) in height.	`					
7. Hyptis alata	1	no	OBL	Herb- All herbaceous (non-woody)plants, incl	udina					
8. Andropogon virginicus	1	no	FAC	herbaceous vines, regardless of size. Include						
9. Sagittaria latifolia	1	no	OBL	plants, except woody vines, less than approxi	mately 3 ft (1					
10. Polypremum procumbens	1	no	FACU	m) in height.						
11. Pluchea spp.	1	no	FACW	Woody vine- All woody vines, regardless of h	ieight.					
12. Dichanthelium spp.	1	no	FAC							
Woody Vine Stratum (Plot size:	102 )	= Total Cove	r							
Ampelopsis arborea	1	yes	FAC							
2.										
3.										
4.				Hydrophytic						
5.				Vegetation Present? Yes <u>√</u> N	No					
	1	= Total Cove	r	<u> </u>						
Remarks: (If observed, list morpho Percent cover estimates based or	•	,	roader con	nmunity.						

	scription: (Describe	to the de	of heeded to do	ument ti	he indicator or	confirm the al	sence of indicator	e )					Point: _	
Depth	Matrix		pur necuca to ao		r Features	commin the at	serice of indicator	J.,						
inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc²	Texture				R	emarks	5	
-3	10 YR 4/2							dark (	gravish bi	rown	fine s	and		
<del>-4</del> 1	10 YR 7/4								pale brow					
1-63	10 YR 7/4								ale brow					
							few medium							
3-80	10 YR 8/1		10 YR 7/4				distinct mottles	white	white fine sand					
	Concentration, D=Dep	etion, RM	=Reduced Matrix,	CS=Cove	ered or Coated S	and Grains.	<sup>2</sup> Location: PL=Pe	<u></u>						
	il Indicators:												c Soils 3	:
Histol (A1)			Polyvalue Below Surface (S8) (LRR S, T, U)					n Muck (a			•			
Histic Epidon (A2)			Thin Dark Surface (S9) (LRR S, T, U			•	2 cm Muck (A10) (LRR S)				504 D)			
Black Histic (A3) Hydrogen Sulfide (A4)			Loamy Mucky Mineral (F1) (L.RR O)			,	Reduced Vertic (F18) (outside MLRA 150A							
Stratified Lavers (A5)			Loamy Gleyed Matrix (F2) Depleted Matrix (F3)				Piedmont Floodplain Soils (F19) (LRR P, S,					, 3, 1)		
_				Redox Dark Surface (F6)			Anomalous Bright Loamy Soils (F20) (MLRA 153B)							
			Depleted Dark Surface (F7)				Red Parent Material (TF2)							
5 cm Mucky Mineral (A7) (LRR P,T,U)			Redox Depressions (F8)									7 111		
✓ Muck Presence (A8) (LRR U)				Marl (F10) (LRR U)				Very Shallow Dark Surface (TF12) (LRR T, U) Other (Explain in Remarks)						
1 cm Muck (A9) (LRR P,T)			<del></del>			_	Oun	er (Explai	in in F	Rema	rks)			
	ted Below Dark Surfac	e (A11)			leted Orchric (F1		•							
Thick Dark Surface (A12)			Iron-Manganese Masses (F12) (LRR O, P			R O, P,T)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland				tland			
Coast Prairie Redox (A16) (MLRA 150A)		Umbric Surface (F13) (LRR P, T, U)			1)	hydrology must be present, unless disturbed or problematic.								
Sandy Mucky Mineral (S1) (LRR O, S)		Delta Orchric (F17) (MLRA 151)												
Sandy	Gleyed Matrix (S4)			Red	uced Vertic (F18	) (MLRA 150A	, 150B)							
Sandy	Redox (S5)				lmont Floodplain									
Stripp	ed Matrix (S6)			Ano	malous Bright Lo	amy Soils (F20	0) (MLRA 149A, 153	C, 153D)						
Dark \$	Surface (S7) (LRR P,	S, T, U)												
estrictiv	e Layer (If observed)	:				·								
	Туре:													
	Depth (inches):		·····				Hydric Soil Pres	ent?	Yes	Х	No			