

Appendix A

Data Sources

Data management tasks were completed using Microsoft Access Geodatabases and Environmental Systems Research Institute (ESRI) ArcGIS software. Data were extracted and quantified in geodatabases from NWI Wetlands and Watershed Polygons, U.S. Geological Survey (USGS) Land Use Land Cover Grids, FLUCCS, Florida Natural Areas Inventory (FNAI), FEMA flood insurance rate map (FIRM) data, National Hydrology High Resolution Dataset, and the National Resources Conservation Service SSURGO Soils. These data were overlaid onto USGS Topographic Digital Raster Graphics and 2008 National Aerial Imagery Program 1-meter Orthoquads, and supplemented by USGS National Map Seamless Server LiDAR derived elevation files to develop a general picture of site conditions. The complete list of data sources is included in the table below.

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List of Data Sources

LAYER NAME	FILE NAME	SOURCE	DATE	DATA ORIGINATOR	ADDITIONAL INFO
US CENSUS BLOCK GROUPS - 2000	blkgrp2000_sum3	FGDL	2000	U.S. Department of Commerce, Bureau of the Census	SAMPLE CENSUS DATA BY BLOCK GROUP USING DATA FROM THE CENSUS SUMMARY 3 TABLE
Florida Managed Areas	CONSERV_flma_jun09	FGDL	2009	Florida Natural Areas Inventory	
Florida Ecological Greenways Network and Critical Linkages Prioritization	CONSERV_critical_linkages_2005	FGDL	2005	Florida Greenways and Trails Council	
American Indian Reservations	amindianlands_2008.shp	FGDL	2008	U.S. Census Bureau	
Wildlife Management Areas	CONSERV_FWC_fwcmass_aug07	FGDL	2007	Florida Fish and Wildlife Conservation Commission (FWC)	
National Parks Projects	CONSERV_nps_projects	FGDL	2006	National Park Service and Land & Water Conservation (LWCF), the Urban Park and Recreation Recovery (UPARR), State of Florida Division of Recreation and Parks (DRP)	
National Wildlife Refuges, National Fish Hatcheries and USFWS administrative sites	CONSERV_nwrfla_oct07	FGDL	2007	U.S. Fish and Wildlife Service	
Florida Managed Areas	CONSERV_publicland_jun09	FGDL	2009	Florida Natural Areas Inventory	
Water management district owned lands	CONSERV_wmdl_aug09	FGDL	2009	Florida WMDs	
Federal Lands	CONSERV_fedlanp020	ESRI	2006	National Atlas of the United States	
American Indian Reservations	CONSERV_indianp020	ESRI	2006	National Atlas of the United States	
Tribal Lands	CONSERV_Tribal	ESRI	2000	U.S. Census Bureau	
Existing recreational trails	existing_trails_apr09.shp	FGDL	2009	Florida Statewide Greenways Planning Project	
Panther Consultation Area	ca_panther.shp	FGDL	2007	United States Fish and Wildlife Service	
Panther Focus Area	fa_panther.shp	FGDL	2006	United States Fish and Wildlife Service	
Outstanding Florida Waters	ofw_other_nov08.shp	FGDL	2008	Florida Department of Environmental Protection	
Special Water Outstanding Florida Waters	spowtr_jul08.shp	FGDL	1996	Florida Department of Environmental Protection	

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LAYER NAME	FILE NAME	SOURCE	DATE	DATA ORIGINATOR	ADDITIONAL INFO
{{Site} Potable Water Sources) - "Potable Well"	drinkwater_jun07.shp	FGDL	2007	Florida Department of Health (FDOH)	This shapefile contains limited use wells (public water systems which are not covered by the Safe Drinking Water Act) inspected by the Department of Health. Definitions for these limited use wells and statutory authorization to regulate them are found in section 381.0062 of the Florida Statutes.
{{Site} Potable Water Sources) - "Potable Well"	prerrpws.shp	SFWMD	2009		Purpose: Graphically display the boundaries for Water Use Permit Public Water Supply issued by SFWMD. This data is intended to use by persons within the District or as well as the public.
{{Site} Potable Water Sources) - "Potable Well"	prerrwup.shp	SFWMD	2009		Purpose: Graphically display the boundaries for Water Use Permits issued by SFWMD. This data is intended to use by persons within the District or as well as the public.
{{Site} Potable Water Sources) - "Potable Well"	wup_sites.shp	SWFWMD	2009		Water Use Permit withdrawal point layer created from Regulatory Database records. This includes only sites that have not been deleted and are the most recent revision. Maintained by Processing and Records staff.

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{{Site} Potable Water Sources) - "Potable Well"	cup_stations.shp	SJRWMD	2009		This data represents the locations of wells and pumps that correspond to permit applications received by the St. Johns River Water Management District. This layer refers to both wells and pumps as stations. The location for these wells and pumps is supplied by the applicant, usually in the form of a location map with wells and pumps delineated by the applicant by placing an X or a dot on the location map. These location maps are generally 1:24,000 USGS quadrangles. In some instances, the District has obtained GPS positions of the stations. When this more accurate position information is available, the station data has been updated to reflect the improved position and documented as a GPS'ed location in the attribute information.
{{Site} Potable Water Sources) - "Potable Well"	MWI.shp	SRWMD	2009		Stores points collected including wells, surface water withdrawal points, and irrigation systems.
{{Site} Nearest Transportation Features Map) - "US Route"	majhwys_jul09.shp	FGDL	2009	Florida Department of Transportation (FDOT)	This dataset contains Major Highways from the JULY 2009 version of the Florida Department of Transportation Roads Characteristics inventory (RCI) dataset. The dataset has been updated from the previous versions of FGDL.
{{Site} Nearest Transportation Features Map) - "Airport Recieving Scheduled Flights"	airports_2009.shp	FGDL	2009	Federal Aviation Authority (FAA)	The Airports database is a geographic point database of aircraft landing facilities in the United States and U.S. Territories. Attribute data is provided on the physical and operational characteristics of the landing facility, current usage including enplanements and aircraft operations, congestion levels and usage categories. This geospatial data is derived from the FAA's National Airspace System Resource Aeronautical Data Product.

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{{Site} Nearest Transportation Features Map) - "Railroad"	rails_2009.shp	FGDL	2009	Florida Department of Transportation (FDOT)	This dataset is a subset of The Rail Network representing the state of Florida. The Rail Network is a comprehensive database of the nation's railway system at the 1:100,000 scale. The data set covers all 50 States plus the District of Columbia.
{{Site} Nearest Transportation Features Map) - "Navigable Waterway"	btsww_2009.shp	FGDL	2009	US Department of Transportation Bureau of Transportation Statistics (BTS)	The National Waterway Network is a comprehensive network database of the nation's navigable waterways. This data set is an extract of the national dataset representing Florida waterways and water links. The nominal scale of the dataset varies with the source material. The majority of the information is at 1:100,000 with larger scales used in harbor/bay/port areas and smaller scales used in open waters.
FNAI Element Occurances	CONSERV_FNAI_FLEO_Consolidated	FNAI	2009	Florida Natural Areas Inventory	Just because Species exist in this dataset doesn't mean that they are listed or endangered species. As the matter of fact, none of the species were Federally Listed and only a few were state listed. Some were considered "species of special concern" For example, Bald eagle is neither a federal or state listed species. Attention must be paid to the FEDERAL and SPROT fields to determine whether or not it is listed.
Landuse	SFWMD_LU	FGDL	2004	SFWMD	FLUCCS level 3 codes and WMD level 3 descriptions were used
Landuse	SWFWMD_LU	FGDL	2007	SWFWMD	FLUCCS level 3 codes and WMD level 3 descriptions were used
Landuse	SRWMD_LU	FGDL	2004	SRWMD	FLUCCS level 3 codes and WMD level 3 descriptions were used
Landuse	SJRWMD_LU	FGDL	2004	SJRWMD	FLUCCS level 3 codes and WMD level 3 descriptions were used
aerial imagery	imagery	ESRI	2008 (varies)	location specific	

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Impaired, Assessment, Waters	pef.SDE.HYDRO_impaired_waters_sep08	FGDL	2008	Florida Department of Environmental Protection, Watershed Assessment Section	The verified list of impaired waters is the list of Florida's waterbodies that do not meet or are not expected to meet applicable water quality standards with technology-based controls alone for the Cycle 1 Group 1-5 basins and for Cycle 2 Group 1 -2 Basins.
5 Foot Elevation Contours	pef.SDE.TOPO_merge	CH	1997	Florida's Water Management Districts and U.S. Geological Survey	Merging 23 separate files that contained countywide 5-foot contour lines.
National Wetlands Inventory	NWI_nwip_may08	FGDL	2008	US Fish and Wildlife	
FEMA Flood Hazard Zones	pef.SDE.FLDPLN_dfirm_fldhaz_feb09	FGDL	2009	FEMA	
FEMA flood Insurance Maps	pef.SDE.FLDPLN_fema_dfirm_merge	FGDL	1996	FEMA	
Military Lands	pef.SDE.MIL_militr_dec06	FGDL		Military Traffic Management Command Transportation Engineering Agency	

Appendix B

Land Use data for site area, onsite areas, offsite areas, reservoirs, and transmission corridors as downloaded from the Florida Land Use Cover and Forms Classification System (FLUCCS) database, 2009.

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FLUCCS LEVEL 3 SITE AREA IMPACTS (ac.)					
FLUCCS CODE	DESCRIPTION	LNP	Dixie 1	Highlands	Putnam 3
1100	RESIDENTIAL LOW DENSITY (< 2 DU/ACRE)	4.2			33.6
1110	RESIDENTIAL LOW DENSITY - FIXED SINGLE FAMILY			7.3	
1120	RESIDENTIAL LOW DENSITY - MOBILE HOME UNITS				
1130	RESIDENTIAL LOW DENSITY - FIXED AND MOBILE				
1180	RURAL RESIDENTIAL				79.3
1200	RESIDENTIAL MEDIUM DENSITY (2 - 5 DU/ACRE)				6.1
1210	RESIDENTIAL MEDIUM DENSITY - FIXED SINGLE				
1220	RESIDENTIAL MEDIUM DENSITY - MOBILE HOME UNITS				
1230	RESIDENTIAL MEDIUM DENSITY - MIXED UNITS				
1300	RESIDENTIAL HIGH DENSITY				
1400	COMMERCIAL AND SERVICES	1.3			11.2
1420	JUNK YARDS				
1520	TIMBER PROCESSING				27.3
1600	EXTRACTIVE				
1610	STRIP MINES - HEAVY MINERALS/METALS				123.4
1650	RECLAIMED LAND				960.1
1660	HOLDING PONDS				55.4
1700	INSTITUTIONAL				
1800	RECREATIONAL				
1900	OPEN LAND				
2100	CROPLAND AND PASTURELAND	121.5			
2110	IMPROVED PASTURES		6.4	3,447.4	7.8
2120	UNIMPROVED PASTURES			40.5	10.5
2130	WOODLAND PASTURES			422.3	
2140	ROW CROPS			16.0	
2150	FIELD CROPS			643.8	
2210	CITRUS GROVES			139.1	
2220	FRUIT ORCHARDS				
2230	OTHER GROVES		8.7		
2310	CATTLE FEEDING OPERATIONS				
2320	POULTRY FEEDING OPERATIONS				
2410	TREE NURSERIES				
2500	SPECIALTY FARMS				
2510	HORSE FARMS				
2600	OTHER OPEN LANDS - RURAL	421.6			
2610	FALLOW CROP LAND			20.8	
3100	HERBACEOUS (DRY PRAIRIE)				19.2
3200	SHRUB AND BRUSHLAND	71.2	38.9		52.3

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FLUCCS LEVEL 3 SITE AREA IMPACTS (ac.)					
FLUCCS CODE	DESCRIPTION	LNP	Dixie 1	Highlands	Putnam 3
3300	MIXED RANGELAND				32.5
4100	UPLAND CONIFEROUS FORESTS	85.2			
4110	PINE FLATWOODS	115.5	25.2		93.9
4120	LONGLEAF PINE - XERIC OAK	5.0			
4200	UPLAND HARDWOOD FORESTS		2.0		
4340	HARDWOOD CONIFER MIXED	219.8	14.1		45.3
4400	TREE PLANTATIONS	2,973.3			
4410	CONIFEROUS PLANTATIONS		694.2		1,612.0
4430	FOREST REGENERATION AREAS		4,570.6		1,230.2
5100	STREAMS AND WATERWAYS				
5120	CHANNELIZED RIVER, STREAM, WATERWAY			55.7	
5200	LAKES		4.2		
5300	RESERVOIRS	1.2			8.3
5400	BAYS AND ESTUARIES				
6110	BAY SWAMPS				5.4
6130	GUM SWAMPS				
6150	STREAM AND LAKE SWAMPS (BOTTOMLAND)	136.9			
6170	MIXED WETLAND HARDWOODS		73.0	80.5	422.5
6210	CYPRESS	1,053.5	43.2		126.6
6250	HYDRIC PINE FLATWOODS				233.0
6300	WETLAND FORESTED MIXED	294.6	25.0		374.2
6410	FRESHWATER MARSHES	407.5		568.3	35.1
6420	SALTWATER MARSHES				
6430	WET PRAIRIES	20.0	327.7	453.2	35.3
6440	EMERGENT AQUATIC VEGETATION	0.3			
6460	MIXED SCRUB-SHRUB WETLAND		166.8		172.1
6530	INTERMITTENT PONDS				
7400	DISTURBED LAND				7.1
7410	RURAL LAND IN TRANSITION WITHOUT POSITIVE				102.4
7430	SPOIL AREAS				3.2
7440	FILL AREAS - HIGHWAYS AND RAILWAYS			105.0	
8100	TRANSPORTATION	44.8			
8140	ROADS AND HIGHWAYS				46.0
8200	COMMUNICATIONS				0.2
8300	UTILITIES	22.5			
8320	ELECTRICAL POWER TRANSMISSION LINES				26.7
8370	SURFACE WATER COLLECTION FEATURES				1.8
Grand Total		6,000.0	6,000.0	6,000.0	6,000.0

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FLUCCS LEVEL 3 ONSITE IMPACTS (ac.)					
FLUCCS CODE	DESCRIPTION	Dixie 1	Highlands	LNP	Putnam 3
1650	RECLAIMED LAND				276.2
2110	IMPROVED PASTURES		627.7		
2130	WOODLAND PASTURES		12.3		
2600	OTHER OPEN LANDS - RURAL			150.9	
3100	HERBACEOUS (DRY PRAIRIE)				16.6
3200	SHRUB AND BRUSHLAND				5.1
3300	MIXED RANGELAND				3.2
4340	HARDWOOD CONIFER MIXED				6.1
4400	TREE PLANTATIONS			298.7	
4410	CONIFEROUS PLANTATIONS				245.4
4430	FOREST REGENERATION AREAS	638.2			22.4
6150	STREAM AND LAKE SWAMPS (BOTTOMLAND)			25.3	
6170	MIXED WETLAND HARDWOODS				0.7
6210	CYPRESS			142.0	17.7
6250	HYDRIC PINE FLATWOODS				19.3
6300	WETLAND FORESTED MIXED			11.7	13.9
6410	FRESHWATER MARSHES		8.5	31.1	5.2
6430	WET PRAIRIES	22.1	11.9		4.1
6460	MIXED SCRUB-SHRUB WETLAND				16.0
8300	UTILITIES			0.7	
8320	ELECTRICAL POWER TRANSMISSION LINES				8.3
Grand Total		660.3	660.3	660.3	660.3

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FLUCCS LEVEL 3 OFFSITE IMPACTS (ac.)					
FLUCCS CODE	DESCRIPTION	Dixie 1	Highlands	LNP	Putnam 3
1100	RESIDENTIAL LOW DENSITY (< 2 DU/ACRE)				24.4
1110	RESIDENTIAL LOW DENSITY - FIXED SINGLE FAMILY UNITS	11.6			
1120	RESIDENTIAL LOW DENSITY - MOBILE HOME UNITS	0.2			
1130	RESIDENTIAL LOW DENSITY - FIXED AND MOBILE HOME UNITS	50.7			
1180	RURAL RESIDENTIAL		18.8		12.8
1200	RESIDENTIAL MEDIUM DENSITY (2 - 5 DU/ACRE)				0.6
1210	RESIDENTIAL MEDIUM DENSITY - FIXED SINGLE FAMILY UNITS	4.1			
1230	RESIDENTIAL MEDIUM DENSITY - MIXED UNITS	25.5			
1400	COMMERCIAL AND SERVICES	3.7			1.3
1520	TIMBER PROCESSING				1.6
1600	EXTRACTIVE			20.0	
1650	RECLAIMED LAND				28.9
1850	PARKS AND ZOOS	0.3			
1900	OPEN LAND			32.5	
2110	IMPROVED PASTURES	112.4	298.2		13.6
2120	UNIMPROVED PASTURES		19.5		0.9
2130	WOODLAND PASTURES	13.6	52.0		1.1
2140	ROW CROPS	2.4	60.4		
2150	FIELD CROPS	16.8			1.1
2153	FIELD CROPS	23.7			
2320	POULTRY FEEDING OPERATIONS				0.9
2520	DAIRIES	5.5			
2600	OTHER OPEN LANDS - RURAL			35.2	
2610	FALLOW CROP LAND	4.3	4.7		
3100	HERBACEOUS (DRY PRAIRIE)		6.2		4.0
3200	SHRUB AND BRUSHLAND	30.3	0.3	1.9	
3300	MIXED RANGELAND	4.0	0.9		3.6
4100	UPLAND CONIFEROUS FORESTS			4.4	
4110	PINE FLATWOODS	5.9	3.3		6.8
4120	LONGLEAF PINE - XERIC OAK			2.1	
4200	UPLAND HARDWOOD FORESTS	1.0			
4220	BRAZILIAN PEPPER		5.8		
4270	LIVE OAK	3.7			
4280	CABBAGE PALM		0.5		
4340	HARDWOOD CONIFER MIXED	127.5		7.9	4.8

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FLUCCS LEVEL 3 OFFSITE IMPACTS (ac.)					
FLUCCS CODE	DESCRIPTION	Dixie 1	Highlands	LNP	Putnam 3
4400	TREE PLANTATIONS			170.7	
4410	CONIFEROUS PLANTATIONS	68.3			91.1
4430	FOREST REGENERATION AREAS	285.2			81.0
5100	STREAMS AND WATERWAYS	2.2		1.1	0.3
5120	CHANNELIZED RIVER, STREAM, WATERWAY		6.9		
5200	LAKES	0.5			
5250	OPEN WATER WITHIN A FRESHWATER MARSH / MARSHY LAKE		1.7		
5300	RESERVOIRS			2.1	1.4
5600	SLOUGH WATERS		0.4		
6150	STREAM AND LAKE SWAMPS (BOTTOMLAND)			0.2	
6170	MIXED WETLAND HARDWOODS	14.4	1.5		3.5
6172	MIXED WETLAND HARDWOODS		2.9		
6210	CYPRESS	1.5		28.1	3.8
6250	HYDRIC PINE FLATWOODS				5.9
6300	WETLAND FORESTED MIXED	10.7		10.4	21.8
6410	FRESHWATER MARSHES	2.8	14.6	13.6	0.6
6430	WET PRAIRIES	11.7	3.7		2.0
6440	EMERGENT AQUATIC VEGETATION		0.4		0.3
6460	MIXED SCRUB-SHRUB WETLAND	4.1			6.3
7400	DISTURBED LAND				0.0
7410	RURAL LAND IN TRANSITION WITHOUT POSITIVE INDICATORS OF INTENDED ACTIVITY				4.5
7430	SPOIL AREAS		2.0		
7440	FILL AREAS - HIGHWAYS AND RAILWAYS		10.5		
8100	TRANSPORTATION			3.4	
8120	RAILROADS	1.2			
8140	ROADS AND HIGHWAYS	0.4			3.5
8170	OIL, WATER OR GAS LONG DISTANCE TRANSMISSION LINES	0.3			
8300	UTILITIES			7.4	
8320	ELECTRICAL POWER TRANSMISSION LINES				1.6
Grand Total		850.3	515.1	341.0	333.8

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FLUCCS LEVEL 3 RESERVOIR IMPACTS (ac.)				
FLUCCS CODE	DESCRIPTION	Dixie 1	Highlands	Putnam 3
1613	STRIP MINES			201.2
1650	RECLAIMED LAND			16.5
1660	HOLDING PONDS			50.4
2110	IMPROVED PASTURES		215.1	
2156	FIELD CROPS		881.8	
2210	CITRUS GROVES		160.5	
3200	SHRUB AND BRUSHLAND	25.1		11.6
4110	PINE FLATWOODS			28.9
4200	UPLAND HARDWOOD FORESTS	16.9		
4340	HARDWOOD CONIFER MIXED	19.1		3.8
4410	CONIFEROUS PLANTATIONS	205.0		379.7
4430	FOREST REGENERATION AREAS	1087.5		307.2
5200	LAKES	2.1		
6110	BAY SWAMPS			4.0
6170	MIXED WETLAND HARDWOODS			219.8
6210	CYPRESS			25.4
6250	HYDRIC PINE FLATWOODS			30.0
6300	WETLAND FORESTED MIXED			129.9
6410	FRESHWATER MARSHES		130.4	4.2
6411	FRESHWATER MARSHES		3.4	
6430	WET PRAIRIES	81.3	108.6	17.2
6460	MIXED SCRUB-SHRUB WETLAND	63.0		56.8
8320	ELECTRICAL POWER TRANSMISSION LINES			13.3
Grand Total		1499.9	1499.9	1499.9

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FLUCCS LEVEL 3 TRANSMISSION CORRIDOR IMPACTS (ac.)					
FLUCCS CODE	DESCRIPTION	Dixie Transmission Corridor	Highlands Transmission Corridor	LNP Transmission Corridor	Putnam Transmission Corridor
1100	RESIDENTIAL LOW DENSITY (< 2 DU/ACRE)	922.8	380.1	793.7	531.9
1110	RESIDENTIAL LOW DENSITY - FIXED SINGLE FAMILY UNITS	31.7			
1120	RESIDENTIAL LOW DENSITY - MOBILE HOME UNITS	0.5			
1130	RESIDENTIAL LOW DENSITY - FIXED AND MOBILE HOME UNITS	30.1			
1180	RURAL RESIDENTIAL		7.6		108.0
1200	RESIDENTIAL MEDIUM DENSITY (2 - 5 DU/ACRE)	338.2	223.8	189.2	209.9
1210	RESIDENTIAL MEDIUM DENSITY - FIXED SINGLE FAMILY UNITS	2.6			
1230	RESIDENTIAL MEDIUM DENSITY - MIXED UNITS	40.5	6.3		
1290	RESIDENTIAL MEDIUM DENSITY - UNDER CONSTRUCTION				9.4
1300	RESIDENTIAL HIGH DENSITY	227.7	56.7	162.5	95.5
1330	RESIDENTIAL HIGH DENSITY - MULTIPLE DWELLING UNITS (< 2 - 3 STORIES)	0.7			
1390	RESIDENTIAL HIGH DENSITY - UNDER CONSTRUCTION				2.6
1400	COMMERCIAL AND SERVICES	62.3	159.6	18.9	214.6
1480	CEMETERIES	0.0			3.6
1490	COMMERCIAL AND SERVICES - UNDER CONSTRUCTION				4.7
1500	INDUSTRIAL	47.9	78.1	48.8	29.5
1510	FOOD PROCESSING				5.5
1520	TIMBER PROCESSING				9.9
1550	OTHER LIGHT INDUSTRIAL	3.5			12.0
1560	OTHER HEAVY INDUSTRIAL				1.4
1600	EXTRACTIVE	46.7	493.8	33.4	12.2
1611	STRIP MINES				3.7
1620	SAND AND GRAVEL PITS				4.2
1650	RECLAIMED LAND		18.0		32.1
1660	HOLDING PONDS				3.3
1700	INSTITUTIONAL	26.5	7.7	9.8	61.0
1800	RECREATIONAL	15.7	6.1	17.2	8.4
1820	GOLF COURSES	104.2	38.0	72.5	64.7

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FLUCCS LEVEL 3 TRANSMISSION CORRIDOR IMPACTS (ac.)					
FLUCCS CODE	DESCRIPTION	Dixie Transmission Corridor	Highlands Transmission Corridor	LNP Transmission Corridor	Putnam Transmission Corridor
1840	MARINAS AND FISH CAMPS				1.8
1850	PARKS AND ZOOS	123.3			7.2
1860	COMMUNITY RECREATIONAL FACILITIES				3.6
1890	OTHER RECREATIONAL				0.8
1900	OPEN LAND	433.4	306.2	490.6	41.6
1920	INACTIVE LAND WITH STREET PATTERN BUT WITHOUT STRUCTURES				92.0
2100	CROPLAND AND PASTURELAND	1440.3	596.6	1439.0	140.7
2110	IMPROVED PASTURES	172.8	1032.0		343.4
2120	UNIMPROVED PASTURES	9.2	219.2		25.1
2130	WOODLAND PASTURES	54.8	63.7		30.3
2140	ROW CROPS	32.7	15.3	28.9	8.5
2150	FIELD CROPS	56.7	13.0		22.6
2153	FIELD CROPS	39.8			
2156	FIELD CROPS		102.4		
2200	TREE CROPS	121.6	610.2	112.9	51.7
2210	CITRUS GROVES		226.7		35.1
2230	OTHER GROVES	3.5			
2240	ABANDONED TREE CROPS				4.8
2300	FEEDING OPERATIONS	3.5		3.5	2.6
2400	NURSERIES AND VINEYARDS	18.4	20.4	18.9	8.5
2410	TREE NURSERIES	36.6			
2420	SOD FARMS		17.4		
2430	ORNAMENTALS				18.7
2431	ORNAMENTALS				62.1
2432	ORNAMENTALS				40.2
2500	SPECIALTY FARMS	6.8	8.3	6.8	2.5
2510	HORSE FARMS				6.5
2600	OTHER OPEN LANDS - RURAL	178.6	157.4	182.0	38.2
2610	FALLOW CROP LAND	12.8	1.1		4.0
3100	HERBACEOUS (DRY PRAIRIE)	6.0			79.2
3200	SHRUB AND BRUSHLAND	190.7	340.8	131.7	81.7
3210	PALMETTO PRAIRIES		42.4		
3300	MIXED RANGELAND	49.0	47.1	35.4	41.3

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FLUCCS LEVEL 3 TRANSMISSION CORRIDOR IMPACTS (ac.)					
FLUCCS CODE	DESCRIPTION	Dixie Transmission Corridor	Highlands Transmission Corridor	LNP Transmission Corridor	Putnam Transmission Corridor
4100	UPLAND CONIFEROUS FORESTS	113.3		92.4	
4110	PINE FLATWOODS	524.0	235.6	320.8	330.3
4120	LONGLEAF PINE - XERIC OAK	610.7		486.8	78.7
4130	SAND PINE				361.1
4200	UPLAND HARDWOOD FORESTS	21.7	12.0	4.8	25.7
4210	XERIC OAK	0.2			24.8
4340	HARDWOOD CONIFER MIXED	970.5	98.1	566.9	438.7
4400	TREE PLANTATIONS	287.7		327.0	16.7
4410	CONIFEROUS PLANTATIONS	418.2			461.6
4430	FOREST REGENERATION AREAS	438.4			437.7
5100	STREAMS AND WATERWAYS	16.7	0.6	10.3	30.6
5120	CHANNELIZED RIVER, STREAM, WATERWAY		3.9		
5200	LAKES	26.2	12.5	23.9	33.5
5250	OPEN WATER WITHIN A FRESHWATER MARSH / MARSHY LAKE				3.1
5300	RESERVOIRS	83.2	12.0	60.8	34.0
6110	BAY SWAMPS		4.6		12.1
6130	GUM SWAMPS	4.4			
6150	STREAM AND LAKE SWAMPS (BOTTOMLAND)	327.3	113.5	269.4	25.8
6170	MIXED WETLAND HARDWOODS	22.4	17.1		136.0
6172	MIXED WETLAND HARDWOODS		28.2		
6181	CABBAGE PALMS				6.5
6200	WETLAND CONIFEROUS FORESTS	29.9	2.5	15.6	1.2
6210	CYPRESS	431.9	35.2	361.6	64.8
6215	CYPRESS		2.6		
6240	CYPRESS - PINE - CABBAGE PALM		1.2		
6250	HYDRIC PINE FLATWOODS	1.6	2.8		44.4
6300	WETLAND FORESTED MIXED	323.0	34.0	132.3	237.4
6410	FRESHWATER MARSHES	735.9	215.3	701.2	107.8
6411	FRESHWATER MARSHES		16.7		
6430	WET PRAIRIES	226.3	111.4	114.0	18.3
6440	EMERGENT AQUATIC VEGETATION	27.9	6.2	24.6	17.3
6460	MIXED SCRUB-SHRUB WETLAND	54.7	14.1		42.0
6530	INTERMITTENT PONDS	14.6	1.1	14.2	2.3

APPENDIX B

FLUCCS LEVEL 3 TRANSMISSION CORRIDOR IMPACTS (ac.)					
FLUCCS CODE	DESCRIPTION	Dixie Transmission Corridor	Highlands Transmission Corridor	LNP Transmission Corridor	Putnam Transmission Corridor
7400	DISTURBED LAND	17.4		9.0	3.8
7410	RURAL LAND IN TRANSITION WITHOUT POSITIVE INDICATORS OF INTENDED ACTIVITY				9.4
7430	SPOIL AREAS		0.9		3.0
7440	FILL AREAS - HIGHWAYS AND RAILWAYS		3.1		
8100	TRANSPORTATION	49.8	80.1	39.2	12.2
8110	AIRPORTS				0.0
8140	ROADS AND HIGHWAYS	138.5	1.0		197.7
8160	CANALS AND LOCKS				0.9
8170	OIL, WATER OR GAS LONG DISTANCE TRANSMISSION LINES	1.7			
8200	COMMUNICATIONS				0.6
8300	UTILITIES	2161.2	222.6	2024.5	93.8
8310	ELECTRIC POWER FACILITIES	10.4	2.0		21.9
8320	ELECTRICAL POWER TRANSMISSION LINES	469.6	138.3		245.9
8330	WATER SUPPLY PLANTS				0.1
8340	SEWAGE TREATMENT				4.1
8350	SOLID WASTE DISPOSAL	0.8			
8370	SURFACE WATER COLLECTION FEATURES				3.7
Grand Total		13452.2	6725.2	9395.4	6212.3

Appendix C

Raw data used in LEDPA scoring analysis.

APPENDIX C

LEDPA
Site Selection Decision Matrix

			Raw Data				Quartile based on min and max data range		
Review Factor	Cumulative Weight	Specific Criteria	LNP	Dixie 1	Highlands	Putnam 3	25th	50th	75th
Substrate	1	See Text for Details (wetland impacts due to fill) ac.	488	377	509	1083	553	730	907
Currents, Circulation, or Drainage Patterns	0.66	See Text for Details	NA	NA	NA	NA	-----	-----	-----
		Shore Erosion	NA	NA	NA	NA	-----	-----	-----
		Baseflow (need for reservoir)	NA	NA	NA	NA	-----	-----	-----
Suspended Particulates/ Turbidity	0	See Text for Details (impacts same)	NA	NA	NA	NA	-----	-----	-----
Water Quality	1	(See Text for Details)	NA	NA	NA	NA	-----	-----	-----
		Impaired Waterbodies (water quality) ac.	569	797	1397	51	388	724	1060
Flood Hazards and Floodplain Values	1.25	Floodplain Impacts Onsite, Off-site, and Reservoir*	612	662	2597	495	1020	1546	2071
		Floodplain Impacts Transmission lines*	2846	4112	1750	952	1742	2532	3322
Special Aquatic Sites	6.25	FLUCCS Wetland Onsite & Offsite Corridor Impacts ac.	262	211	286	571	301	391	481
		FLUCCS Wetland Impacts T-Lines RAW	1633	2200	606	716	1005	1403	1802
		T-Line Impacts (fill 6%)	98	132	36	43	60	84	108
		T-Line Impacts (clearing 20%)	327	440	121	143	201	281	360
		Vegetated Shallows (all same)	NA	NA	NA	NA	-----	-----	-----
		Riffle and Pool	0	1	0	0	-----	-----	-----
Habitat for Fish and Other Aquatic Organisms	1	Number Waterbody Crossing (stream and open water)	152	161	59	116	85	110	136
Wildlife Habitat	1	See Text for Details	278	388	302	659	373	469	564
Endangered or Threatened Species	3	Sanctuaries, Refuges, Endangered Species Habitat	NA	NA	NA	NA	-----	-----	-----
		Number of FNAI Species w/in 6,000 ac. Site	4	0	1	0	1	2	3
		Number of Fed T&E w/in County for Onsite	12	10	28	9	14	19	23
Biological Availability of Possible Contaminants in Dredge or Fill Material	0	See Text for Details (impacts same)	NA	NA	NA	NA	-----	-----	-----

APPENDIX C

LEDPA
Site Selection Decision Matrix

Review Factor	Cumulative Weight	Specific Criteria	Raw Data				Quartile based on min and max data range		
			LNP	Dixie 1	Highlands	Putnam 3	25th	50th	75th
Municipal and Private Water Supplies, Water Conservation	2.66	Water Source Impacts- 20th Percentile of the Daily Average Discharge (mgd)***	GOM	1604	217	802	564	911	1257
		Number of Potable Wells	0	9	0	0	-----	-----	-----
		Distance to Nearest Potable Well (m.)	2,127	1,270	4,233	2,491	2011	2752	3492
Recreation and Commercial Fisheries	1	Fisheries Downstream of Site	No	No	Downstream	Downstream	-----	-----	-----
Other Water-Related Recreation	0	See Text for Details (impacts same)	NA	NA	NA	NA	-----	-----	-----
Aesthetics of the Aquatic Ecosystem	1	See Text for Details	NA	NA	NA	NA	-----	-----	-----
Parks, National and Historic Monuments, National Seashores, Wild and Scenic Rivers, Wilderness Areas, and Research Sites**	1	Dedicated Lands (distance to nearest) mi.	1.6	2	2.1	4.2	2.3	2.9	3.6
Indirect and Cumulative Impacts	1.5	See Text for Details	NA	NA	NA	NA	-----	-----	-----
		Aquifer Recharge	NA	NA	NA	NA	-----	-----	-----
Total Weights	22.3		-----	-----	-----	-----	-----	-----	-----

*Digital data is not available for Okeechobee Co, therefore the floodplains impacts are under-reported

** Putnam 3 site's rank was reduced from the maximum rank of 4 to 3 due to the St. Johns River's being designated an American Heritage River

*** 20th percentile of daily average was not calculated for LNP, since its watersource is the GOM and was qualitatively assigned the maximum rank, but was reduced by one due to the presence of groundwater withdrawals

33% Percentage of Direct weights from Wetlands

35% Percentage of Indirect weights from Wetlands

68% Total

Appendix D

Raw data used in Public Interest Review Factor scoring analysis.

Review Factor	Cumulative Weight	Specific Criteria	Raw Scores				Quartile, based on min and max data range		
			LNP	Dixie 1	Highlands	Putnam	25th Perct	50th percent	75th percent
Traffic/Transportation Patterns	1	Transportation Distance (rail or barge) Distance (m.)	5,409	41,787	13,567	4,795	5,255	9,488	20,622
		Distance to Highway (m.)	2,099	6,996	17,636	1,573	1,967	4,547	9,656
Energy Consumption or Generation	0	See Text for Details (impacts same)	NA	NA	NA	NA			
Navigation	0	See Text for Details (impacts same)	NA	NA	NA	NA			
Safety	0	EAB Considerations (all same)	NA	NA	NA	NA			
Air Quality	0	See Text for Details (impacts same)	NA	NA	NA	NA			
Noise	0	See Text for Details (impacts same)	NA	NA	NA	NA			
Historic Properties	1	Number of Historic/Cultural w/in 10 miles of Site	240	30	4	95	24	63	131
Land Use Classification	1	Based on Residential Land Use w/in 6,000 ac.	4	0	7	119	3	6	35
		Zoning	Rezoned	Needs rezoning	Needs rezoning	Needs rezoning			
Economics	2	Transmission Line Cost (onsite costs considered to be same)	\$602,000,000	\$757,000,000	\$1,369,000,000	\$1,102,000,000	718,250,000	929,500,000	1,168,750,000
		Reservoir Cost	\$0	\$193,600,000	\$193,600,000	\$193,600,000	145,200,000	193,600,000	193,600,000
		Property Values	NA	NA	NA	NA			
		Tax Revenues	NA	NA	NA	NA			
		Employment	NA	NA	NA	NA			
Prime Farmland Impacts	0	Prime Farmland	0	0	0	0			
Food and Fiber Production	1	FLUCCS codes for Farm/Cropland	186	179	2,332	18	139	183	723
Mineral Needs	0	See Text for Details (Impacts same)	NA	NA	NA	NA			
Considerations of Property	5	Land Acquisition - Total Number of Property Owners Affected by Entire Project Including Transmsission	4259	6452	3220	4361	3,999	4,310	4,884
		Land Acquisition - Number of Property Owners Affectes by Site	1 (PEF)	22	29	113	26	29	71
		Population - Persons Per Square Mile in County	35	21	97	102	32	66	98
		Environmental Justice- Minority Block Groups Between 6 -50 mi.	55	30	98	214	49	77	127
		Environmental Justice- Low Income Block Groups Between 6 -50 mi.	46	34	58	95	43	52	67
		Housing	NA	NA	NA	NA			

*Digital data is not available for Okeechobee Co, therefore the floodplains impacts are under-reported

Summary of Weighting Rationale for Public Interest Review Factors from CFR 320

Review Factor	Specific Criteria	Weight	Summary of Weighting Modification Rational
Traffic/Transportation Patterns	Transportation Distance (rail or barge) Distance	0.5	Weighting unmodified.
	Distance to Highway	0.5	Weighting unmodified.
Energy Consumption or Generation	See Text for Details	0	This criterion was assigned a weight of 0 since it was assumed that the impacts would be the same for all sites.
Navigation	See Text for Details	0	This criterion was assigned a weight of 0 since it was assumed that the impacts would be the same for all sites.
Safety	EAB Considerations	0	This criterion was assigned a weight of 0 since it was assumed that the impacts would be the same for all sites.
Air Quality	See Text for Details	0	This criterion was assigned a weight of 0 since it was assumed that the impacts would be the same for all sites.
Noise	See Text for Details	0	This criterion was assigned a weight of 0 since it was assumed that the impacts would be the same for all sites.
Historic Properties	Number of Historic/ Cultural w/in 10 mi. of Site	1	Weighting unmodified.
Land Use Classification	Based on Residential Land Use w/in 6,000 ac.	0.5	Weighting unmodified.
	Zoning	0.5	Weighting unmodified.
Economics	Transmission Line Cost (onsite costs considered to be same)	1	Weighting was increased due to multiple specific criteria, to ensure Economics total weight was a value of two.
	Reservoir Cost	1	Weighting was increased due to multiple specific criteria, to ensure Economics total weight was a value of two.
	Property Values	0	This criterion was assigned a weight of 0 since it was assumed that the impacts would be the same for all sites.
	Tax Revenues	0	This criterion was assigned a weight of 0 since it was assumed that the impacts would be the same for all sites.
	Employment	0	This criterion was assigned a weight of 0 since it was assumed that the impacts would be the same for all sites.
Prime Farmland Impacts	Prime Farmland	0	This criterion was assigned a weight of 0 since the impacts would be the same for all sites.
Food and Fiber Production	FLUCCS Codes for Farm/ Cropland	1	Weighting unmodified.
Mineral Needs	See Text for Details	1	Weighting unmodified.

Summary of Weighting Rationale for Public Interest Review Factors from CFR 320

Review Factor	Specific Criteria	Weight	Summary of Weighting Modification Rational
Considerations of Property	Land Acquisition: Total Number of Property Owners Affected by Entire Project Including Transmission	1	Weighting was increased due to the sensitivity of the resource.
	Land Acquisition: Number of Property Owners Affected by Project Site	1	Weighting was increased due to the sensitivity of the resource.
	Population - Persons Per Square Mile in County	1	Weighting was increased due to the sensitivity of the resource.
	Environmental Justice-Minority Block Groups Between 6 -50 mi.	1	Weighting was increased due to the sensitivity of the resource.
	Environmental Justice-Low Income Block Groups between 6 -50 Miles	1	Weighting was increased due to the sensitivity of the resource.
	Housing 0		This criterion was assigned a weight of 0 since it was assumed that the impacts would be the same for all sites.

Summary of Ranking Rationale for Public Interest Review Factors from CFR 320

Review Factor	Specific Criteria	Data Type	Summary of Ranking Rational
Traffic/Transportation Patterns	Transportation Distance (rail or barge) distance	Quantitative	The rank for rail line distance was derived from the distance to the nearest rail line for all sites except the LNP site. Since the LNP site has been designed to use a heavy haul road to provide access to and from a barge slip, it will not require a rail line; thus, the LNP site was given the maximum rank. The other sites were then ranked relative to their distance to the nearest active rail. Potential barge access criteria was linked to the rail line distance since only the LNP site has been designed to have access to a barge slip. The LNP site was given the minimum ranking and all other sites were given the maximum ranking.
	US Route Distance	Quantitative	Relative ranking based on data presented in Appendix D.
Energy Consumption or Generation	See Text for Details	Qualitative	The ranking for each site was assigned a maximum value since it was assumed that the impacts would be the same for all sites.
Navigation	See Text for Details	Qualitative	The ranking for each site was assigned a maximum value since it was assumed that the impacts would be the same for all sites.
Safety	EAB Considerations	Qualitative	The ranking for each site was assigned a maximum value since it was assumed that the impacts would be the same for all sites.

Summary of Ranking Rationale for Public Interest Review Factors from CFR 320

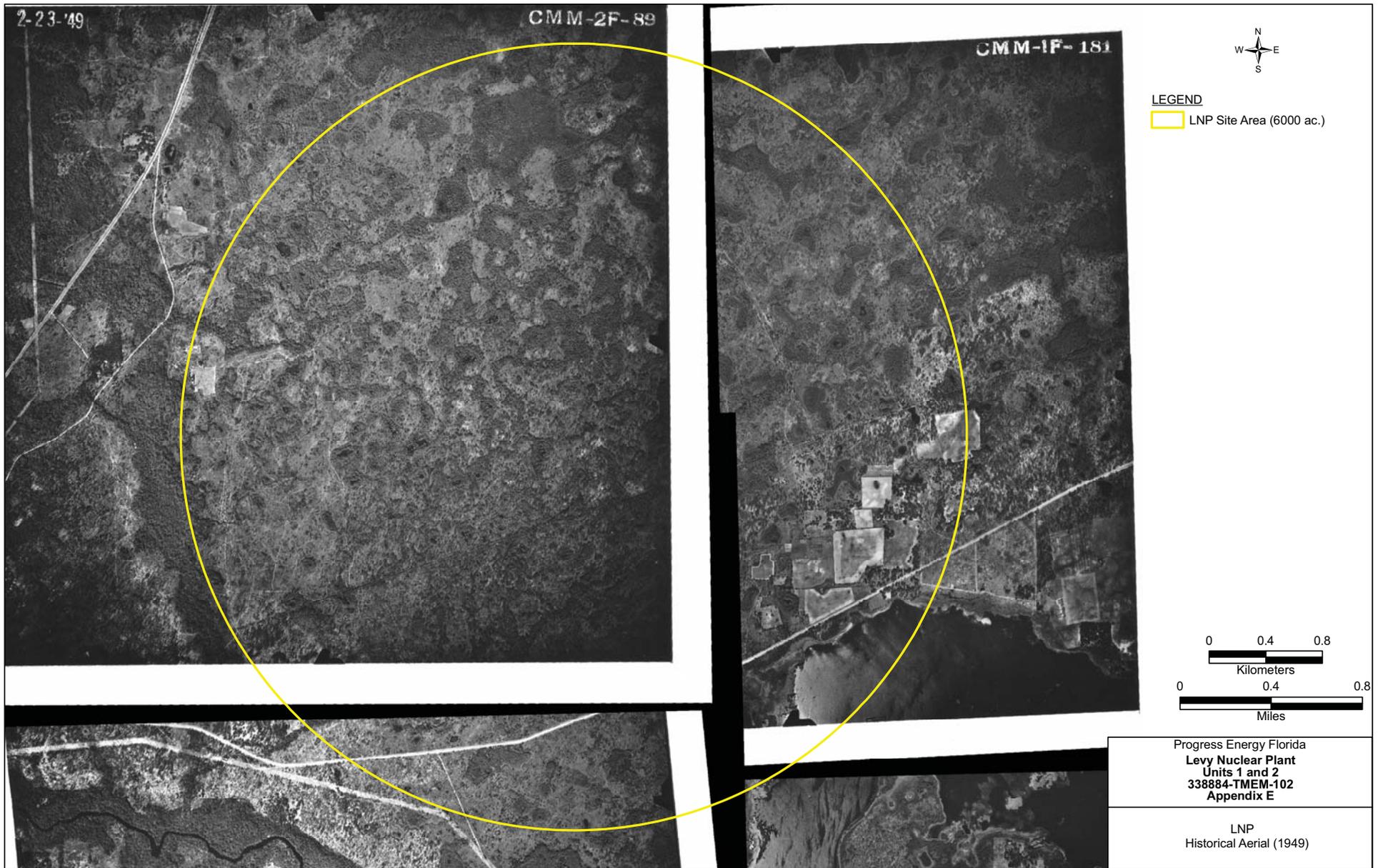
Review Factor	Specific Criteria	Data Type	Summary of Ranking Rational
Air Quality	See Text for Details	Qualitative	The ranking for each site was assigned a maximum value since it was assumed that the impacts would be the same for all sites.
Noise	See Text for details	Qualitative	The ranking for each site was assigned a maximum value since it was assumed that the impacts would be the same for all sites.
Historic Properties	Number of Historic/ Cultural w/in 10 Miles of Site	Quantitative	Relative ranking based on data presented in Appendix D.
Land Use Classification	Based on Residential Land Use w/in 6,000 ac.	Quantitative	Relative ranking based on data presented in Appendix D.
	Zoning	Qualitative	The rank for Zoning was based on the fact that the LNP site has been re-zoned for the construction of a nuclear plant. Therefore, LNP received a maximum value and the remaining four alternative sites were down-rated to a minimum value because they would have to be re-zoned before construction could begin.
Economics	Transmission Line Cost (onsite costs considered to be same)	Quantitative	Relative ranking based on data presented in Appendix D.
	Reservoir Cost	Quantitative	The Reservoir Cost ranking was derived from the conceptual cost of constructing the reservoir based on an assumption of \$8 per cubic yards for excavation. The three sites that would need a reservoir would have an increased cost of \$193,000,000 compared with the sites that do not require a reservoir. The sites that required a reservoir were given the minimum rank and the sites that did not require a reservoir were given the maximum rank.
	Property Values	Qualitative	The ranking for each site was assigned a maximum value since it was assumed that the impacts would be the same for all sites.
	Tax Revenues	Qualitative	The ranking for each site was assigned a maximum value since it was assumed that the impacts would be the same for all sites.
	Employment	Qualitative	The ranking for each site was assigned a maximum value since it was assumed that the impacts would be the same for all sites.
Prime Farmland Impacts	Prime Farmland	Quantitative	The ranking for each site was assigned a maximum value since the impacts would be the same for all sites.
Food and Fiber Production	FLUCCS Codes for Farm/Cropland	Quantitative	Relative ranking based on data presented in Appendix D.
Mineral Needs	See Text for Details	Qualitative	The ranking for each site was assigned a maximum value since it was assumed that the impacts would be the same for all sites.
Considerations of Property	Land Acquisition: Total Number of Property Owners Affected by Entire Project Including	Quantitative	The ranking for Land Acquisition is based on 1) the total number of individual property owners that would be affected, and 2) number of potentially affected property owners of the

Summary of Ranking Rationale for Public Interest Review Factors from CFR 320

Review Factor	Specific Criteria	Data Type	Summary of Ranking Rational
	Transmission		6,000 acre project site only.
	Land Acquisition: Number of Property Owners Affected by Project Site	Quantitative	The ranking for Land Acquisition is based on 1) the total number of individual property owners that would be affected, and 2) number of potentially affected property owners of the 6,000 acre project site only. Since PEF owns the land for LNP this site was given the maximum rank.
	Population - Persons Per Square Mile in County	Quantitative	Relative ranking based on data presented in Appendix D.
	Environmental Justice-Minority Block Groups Between 6 -50 Miles	Quantitative	Relative ranking based on data presented in Appendix D.
	Environmental Justice-Low Income Block Groups Between 6 -50 Miles	Quantitative	Relative ranking based on data presented in Appendix D.
	Housing	Qualitative	The ranking for each site was assigned a maximum value since it was assumed that the impacts would be the same for all sites.

Appendix E

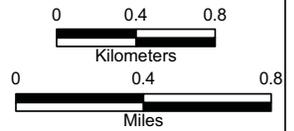
Current and Historical Site Aerial Photographs





LEGEND

 LNP Site Area (6000 ac.)



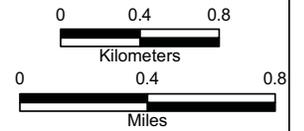
Progress Energy Florida
Levy Nuclear Plant
Units 1 and 2
338884-TMEM-102
Appendix E

LNP
Current Aerial (2009)



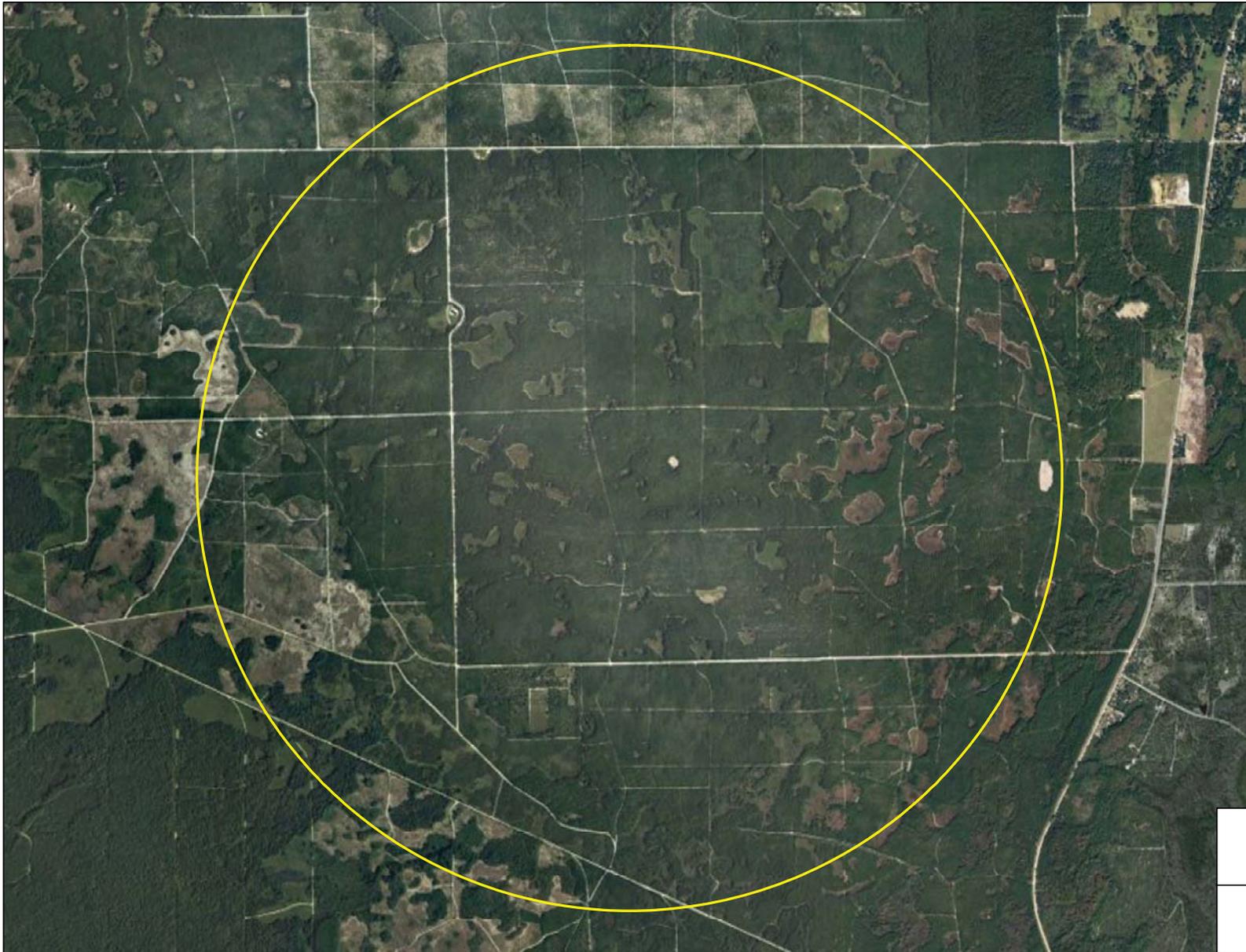
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 Dixie 1 Site Area (6000 ac.)



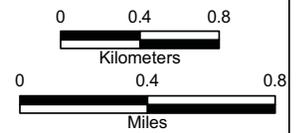
Progress Energy Florida
Levy Nuclear Plant
Units 1 and 2
338884-TMEM-102
Appendix E

Dixie 1
Historical Aerial (1952)



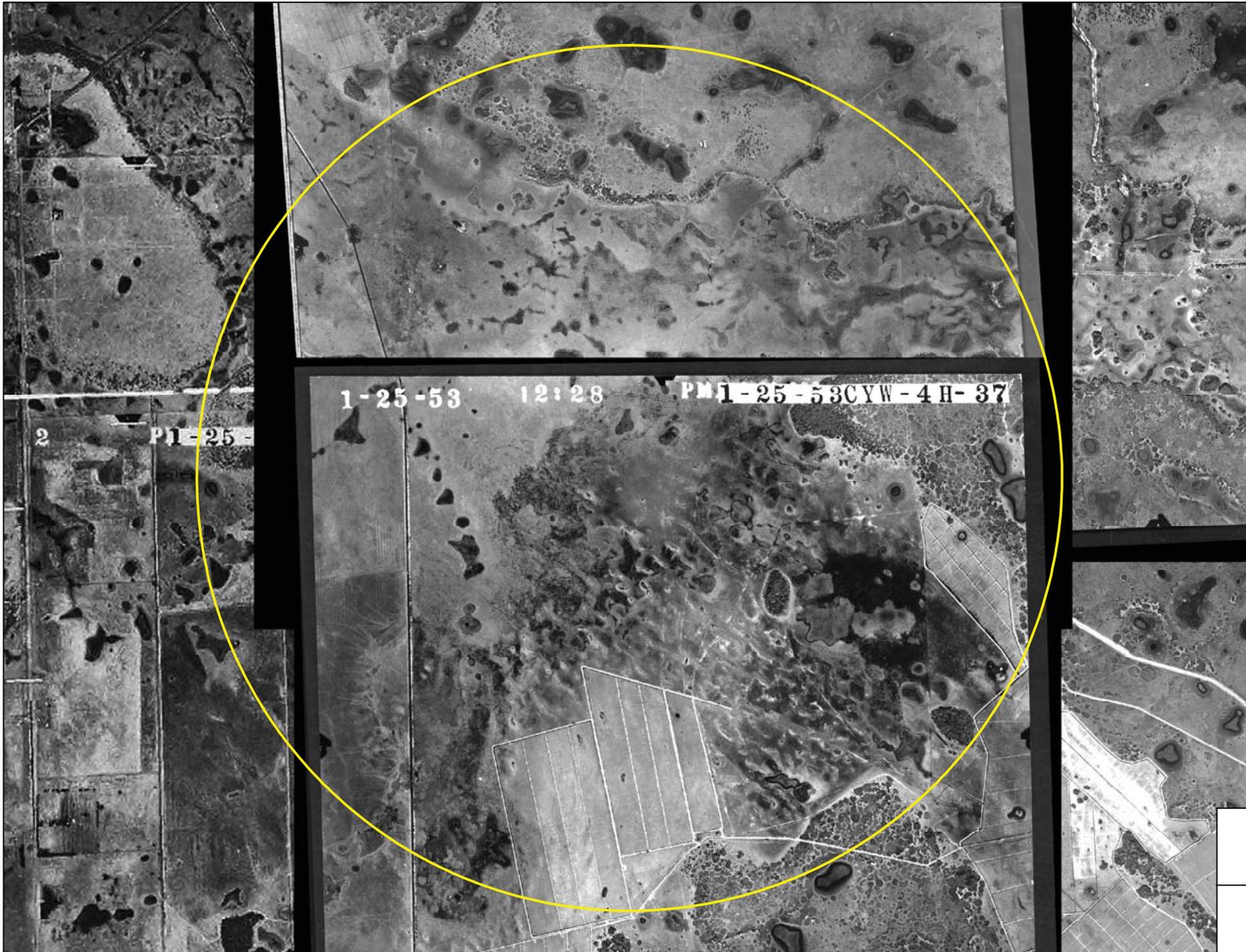
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 Dixie 1 Site Area (6000 ac.)



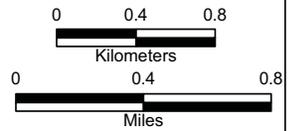
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Appendix E

Dixie 1
Current Aerial (2007)



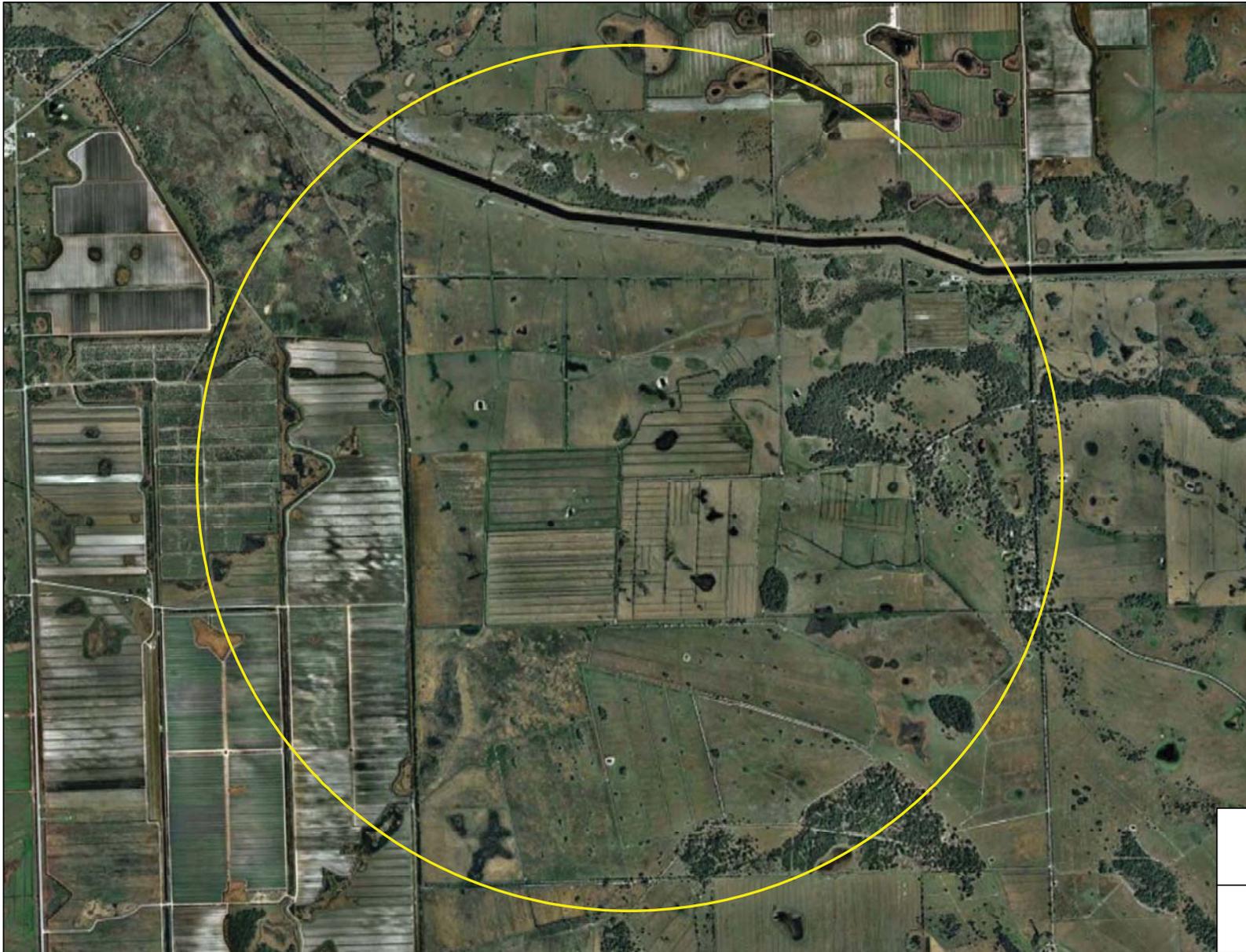
LEGEND

 Highlands Site Area (6000 ac.)



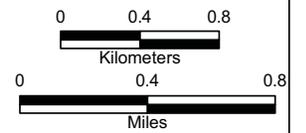
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Appendix E

Highlands
Historical Aerial (1953)



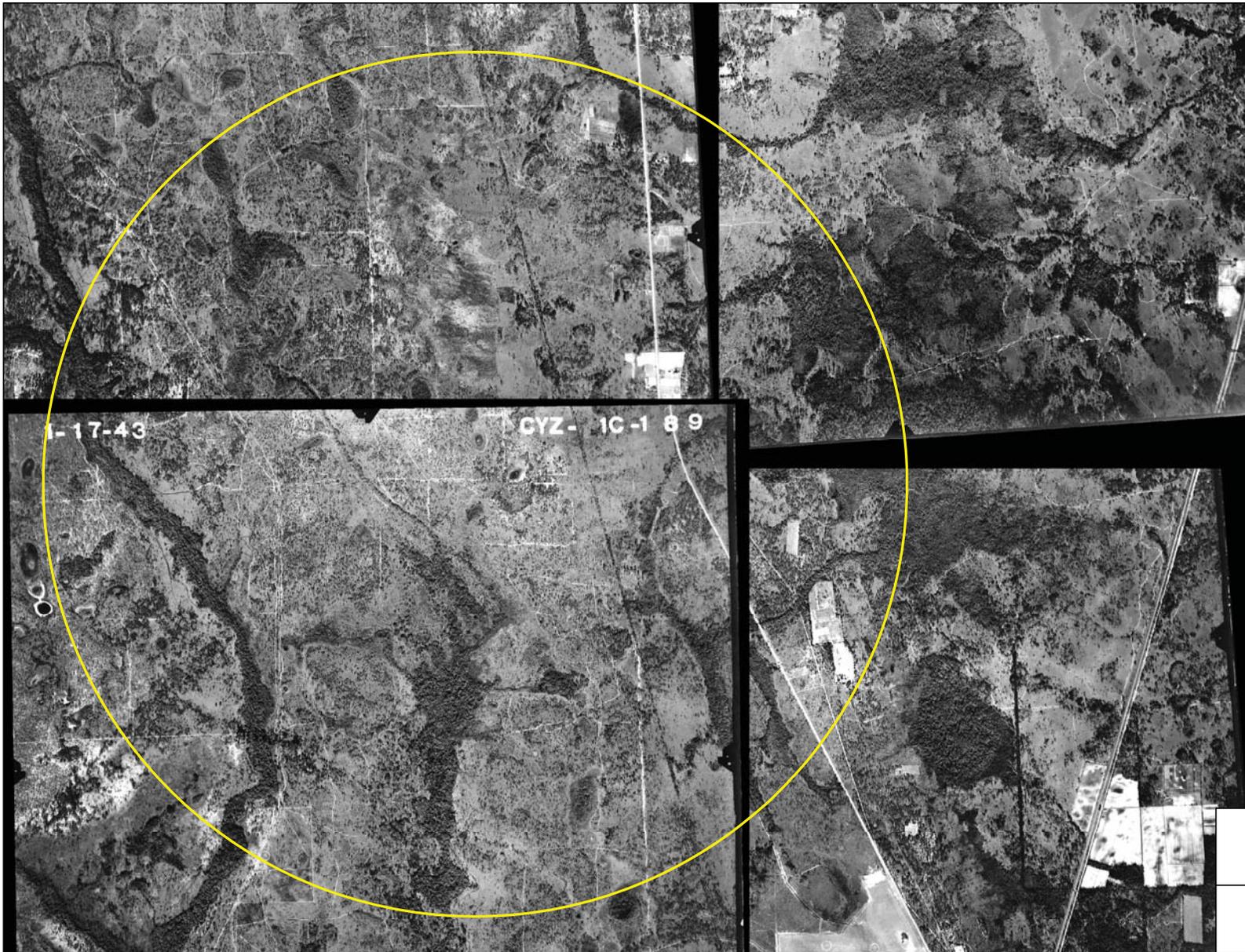
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 Highlands Site Area (6000 ac.)



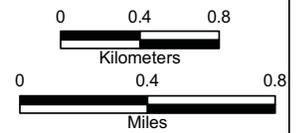
Progress Energy Florida
Levy Nuclear Plant
Units 1 and 2
338884-TMEM-102
Appendix E

Highlands
Current Aerial (2009)



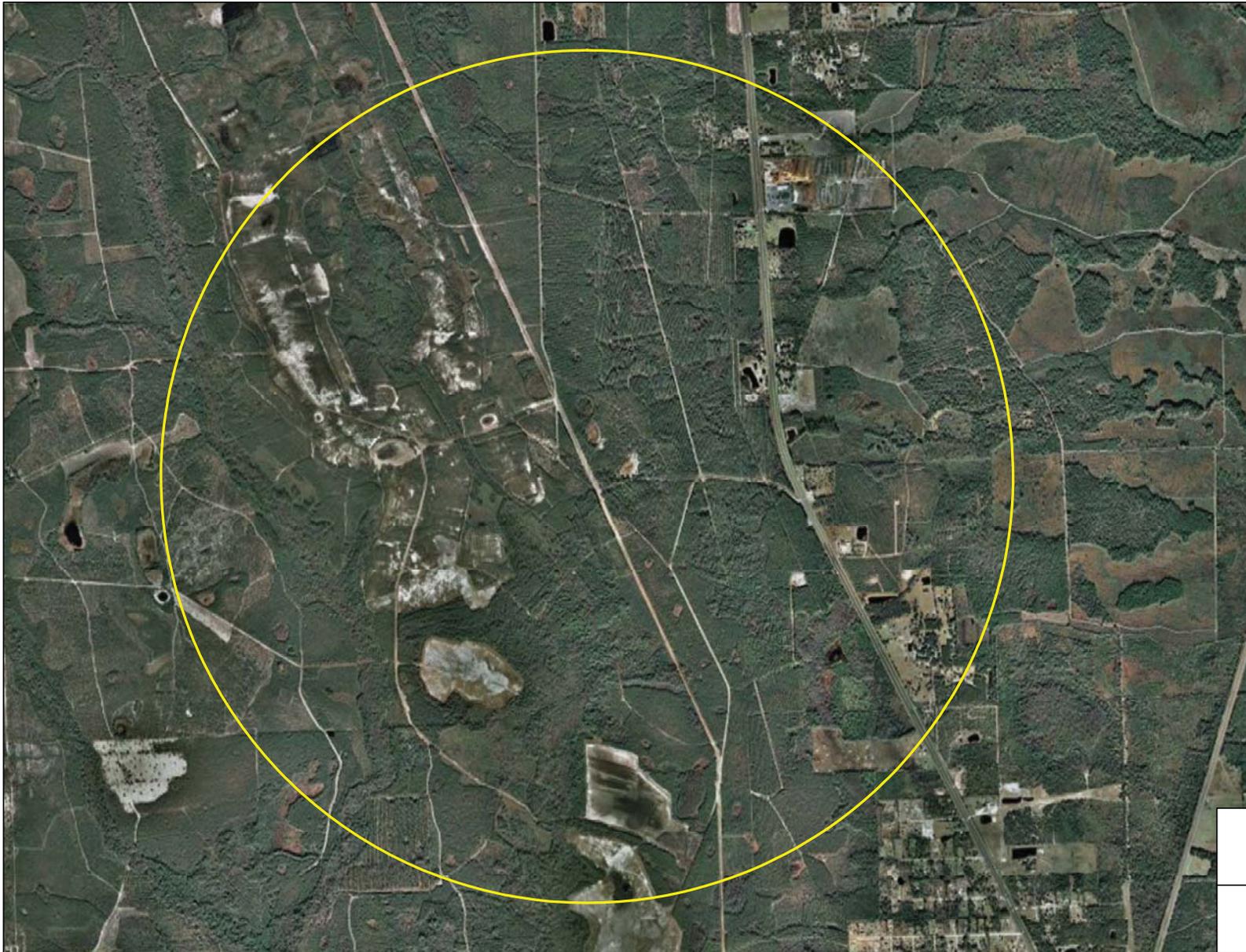
LEGEND

 Putnam 3 Site Area (6000 ac.)



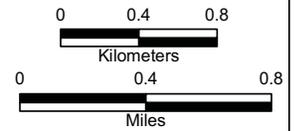
Progress Energy Florida
Levy Nuclear Plant
Units 1 and 2
338884-TMEM-102
Appendix E

Putnam 3
Historical Aerial (1943)



LEGEND

 Putnam 3 Site Area (6000 ac.)



Progress Energy Florida
Levy Nuclear Plant
Units 1 and 2
338884-TMEM-102
Appendix E

Putnam 3
Current Aerial (2009)