



December 31, 2012

Ms. Cindy Mulkey
Administrator, Siting Coordination Office
Florida Department of Environmental Protection
Mail Station 48
3900 Commonwealth Blvd.
Tallahassee, Florida 32399

RE: Florida Power & Light Company
Riviera Beach Energy Center 32-Mile Pipeline Project
PA 09-54C Condition of Certification B.I.B.

Dear Ms. Mulkey:

Per site certification (PA 09-54C) for the Florida Power & Light Company (FPL) Riviera Beach Energy Center 32-Mile Pipeline Project condition of certification B.I.B. requires the following was submitted to the agency on December 12, 2012:

"Prior to construction provide a detailed monitoring and maintenance plan for the restoration of the temporary wetland impacts, to ensure that the area has been restored to the appropriate grade to allow natural vegetation to recruit successfully. If the time lag for restoration is greater than one year from the time of impact to the time native vegetation has recruited mitigation may be required for the temporal loss of wetland function."

Please see enclosed for a revised detailed monitoring and maintenance plan for the restoration of the temporary wetland impacts related to the clearing and construction of the Riviera Beach Energy Center 32-Mile Pipeline Project for your review. If you have any questions, please contact me at 561-691-2808 or John Tessier at 561-694-4131.

Sincerely,
Florida Power & Light Company

A handwritten signature in blue ink that reads "John Tessier" with the word "for" written below it.

Matthew Raffenberg
Director
Environmental Licensing & Permitting

CC:
Jill King, DEP Southeast District {e-mail delivery only}
Ann Seiler, DEP Siting Coordination Office {e-mail delivery only}

**RIVIERA BEACH ENERGY CENTER
32-MILE PIPELINE PROJECT
PALM BEACH AND MARTIN COUNTIES, FLORIDA**

**WETLAND RESTORATION
AND MONITORING PLAN**

Prepared for:



**Florida Power & Light Company
Juno Beach, Florida**

Prepared by:



**6410 Southpoint Parkway, Suite 120
Jacksonville, Florida 32216**

ECT No. 110697-0600

December 2012

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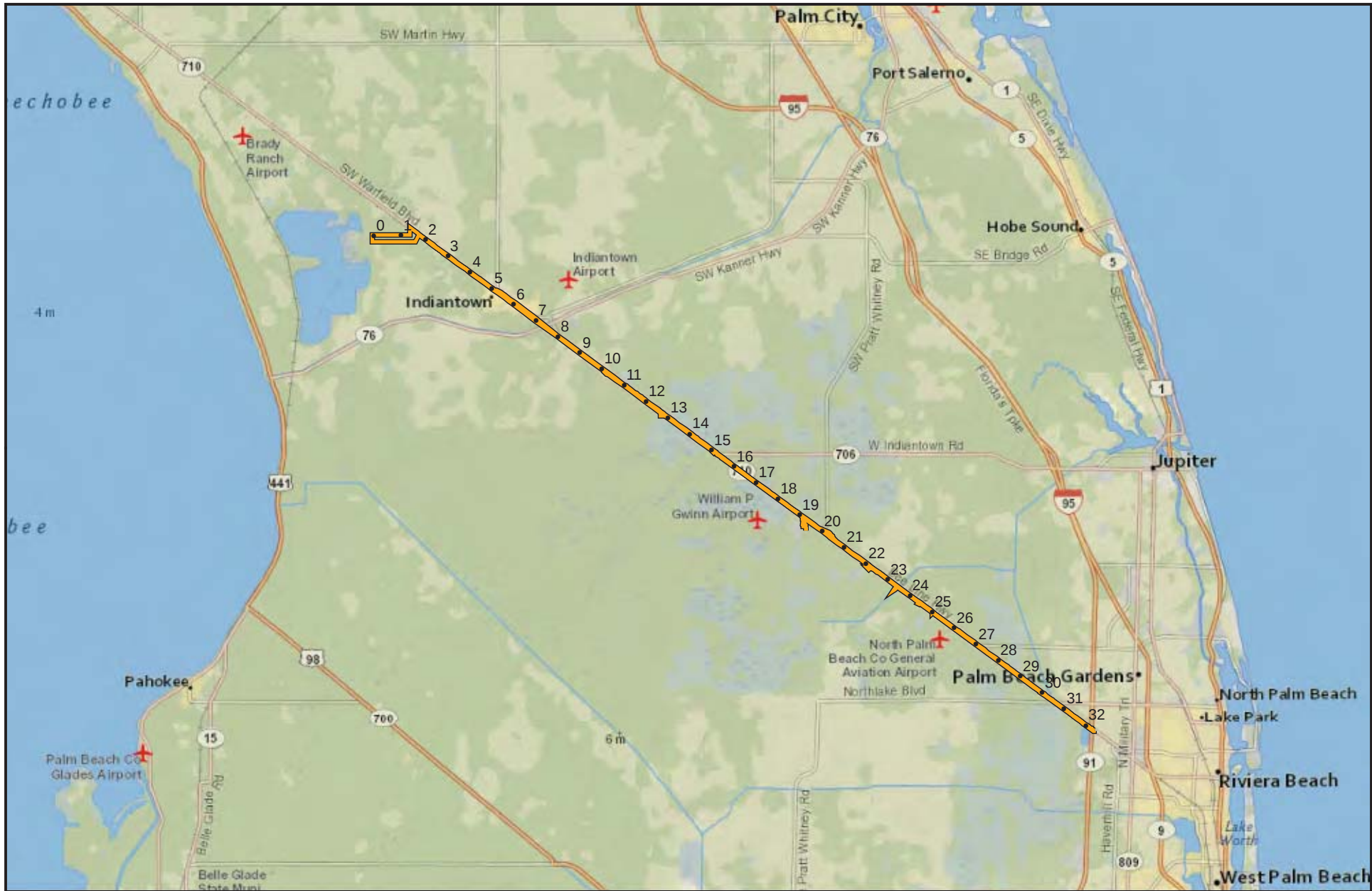
1.0 INTRODUCTION

Florida Power & Light Company (FPL) will construct and operate the Martin Plant to Riviera Beach Energy Center (RBEC) Pipeline Project, which consists of approximately 32 miles of 24-inch diameter natural gas pipeline and associated facilities in Martin and Palm Beach Counties, Florida. The Project will transport natural gas to the RBEC, a modern, highly efficient, lower-emissions, next-generation clean energy center under construction in the city of Riviera Beach, Florida.

The Project has been issued approvals to construct from the Florida Department of Environmental Protection (FDEP) Siting Board No. PA 09-54C and is pending receipt of the U.S. Army Corps of Engineers (USACE) individual permit. This wetland restoration plan is being developed to comply with the Specific Condition of Certification No. B.I.B, *“Prior to construction provide a detailed monitoring and maintenance plan for the restoration of the temporary wetland impacts, to ensure that the area has been restored to the appropriate grade to allow natural vegetation to recruit successfully. If the time lag for restoration is greater than one year from the time of impact to the time native vegetation has recruited mitigation may be required for the temporal loss of wetland function.”*

The location of the corridor has been selected to significantly minimize impacts to the environment and adjoining landowners by being collocated with existing linear facilities to the greatest extent practicable. These existing linear facilities include, but are not limited to, the existing FPL 18-inch fuel pipeline, the CSX Transportation, Inc. (CSX) rail line right-of-way, and the State Road (SR) 710 right-of-way. Figure 1 provides a general location map of the Project.

FPL utilized a variety of avoidance and minimization techniques to reduce wetland and waterbody impacts. Most impacts to wetlands or waterbodies will be temporary in nature, resulting from typical pipeline construction activities such as vegetation clearing, temporary excavation of wetland soils, and ground disturbance from construction vehicles. Temporarily impacted wetlands and waterbodies will be restored to their original grade,



Legend

 Proposed Corridor

• Mile post



0 2.5 5 10
Miles

Figure 1

PROJECT LOCATION MAP

MARTIN PLANT TO RIVIERA BEACH CLEAN ENERGY CENTER LATERAL PIPELINE PROJECT



Date: 1/27/2012

and contour and will be allowed to naturally revegetate. The project will result in only 0.06 acre of permanent wetland impact associated with fill for three valve stations.

The baseline characteristics of the wetlands and waterbodies within the temporary construction right-of-way are provided in this report, as well as restoration techniques, monitoring guidelines, success criteria, and a maintenance/remedial measures plan. Mitigation measures for permanent impacts will be handled using an approved wetland mitigation bank.

2.0 WETLAND AND WATERBODY EXISTING CONDITIONS

Overall, approximately 220.08 acres of wetland and 0.76 acre of waterbody will be temporarily impacted by typical pipeline construction activities such as vegetation clearing, temporary excavation of wetland soils, and ground disturbance from construction vehicles. Most of these wetlands (approximately 67 percent) are herbaceous freshwater marshes associated with roadside swales. Approximately 68.47 acres of exotic hardwood wetlands will be impacted by construction, while only 1.08 acres of native forested or shrub wetlands will be affected. A majority of these wetlands have been previously impacted and are located in existing linear rights-of-way that are maintained on a routine basis and, therefore, are of relatively low quality.

In general, the wetlands within the construction right-of-way are of relatively low quality due to their location within routinely disturbed linear corridors, extensive surrounding development, and the fact that they are vegetated by numerous exotic invasive species. A description of the existing characteristics of each wetland and waterbody type is provided in the following subsections. Table 1 provides a summary of wetland type and proposed area of impact by wetland and waterway identification (ID). Figure 2 depicts the general location of these wetlands and waterbodies. Figure 3 provides a more detailed location of proposed wetland and waterbody impacts. Appendix A contains representative photographs depicting the preconstruction condition of the wetlands and waterbodies.

2.1 NONFORESTED FRESHWATER WETLANDS

Nonforested wetland vegetation communities are primarily comprised of freshwater marshes (641), with shrub wetland (631) accounting for only a small fraction. These marshes and shrub wetlands are linear features in the lower elevations between SR 710 and the CSX railroad. Typical marsh vegetation species include alligatorweed (*Alternanthera philoxeroides*), dogfennel (*Eupatorium capilifolium*), duck potato (*Sagittaria* spp.), torpedograss (*Panicum repens*), pickerelweed (*Pontedaria cordata*), cattail (*Typha* spp.), common reed (*Phragmites australis*), maidencane (*Panicum hemitomon*), false buttonweed (*Spermacoce assurgens*), pennywort (*Hydrocotyle umbellata*), lovegrass (*Eragrostis* spp.), bladderwort (*Utricularia* spp.), spikerush

Table 1. Temporary Wetland and Waterbody Impacts

Wetland ID	Begin MP	End MP	Florida Land Use Cover and Forms Classification System		Impact Area (acres)
			Code	Description	
W 28	1.3	2.4	619	Linear strip of exotic shrubs and trees	5.07
W 29	2.4	2.8	619	Linear strip of exotic shrubs and trees	1.91
W 30	2.9	3.1	641	Linear roadside marsh	0.93
W 31	3.2	3.7	619	Linear strip of exotic shrubs and trees	2.77
W 32	3.7	4.7	619	Linear strip of exotic shrubs and trees	4.84
W 33	4.9	5.0	641	Linear roadside marsh	0.08
W 34	5.1	5.1	619	Linear strip of exotic shrubs and trees	0.17
W 35	5.2	5.4	641	Linear marsh in utility easement	0.65
W 36	5.5	5.6	641	Linear marsh in utility easement	0.17
W 37a	6.8	6.9	630	Mixed hardwood wetland	0.06
W 37b	6.8	6.9	641	Linear marsh in utility easement	0.24
W 40a	7.8	8.9	619	Linear strip of exotic shrubs and trees	2.60
W 40b	7.8	8.9	641	Linear marsh in utility and road easements	4.39
W 40c	8.3	8.9	630	Linear strip of mixed wetland hardwoods	1.16
W 41a	8.9	9.3	619	Linear strip of exotic shrubs and trees	1.21
W 41b	8.9	9.3	641	Linear marsh in utility easement	1.59
W 42a	9.3	9.9	619	Linear strip of exotic shrubs and trees	2.30
W 42b	9.3	9.9	641	Linear marsh in utility and road easements	2.56
W 43a	10.0	10.2	619	Linear strip of exotic shrubs and trees	0.49
W 43b	10.0	10.2	641	Linear marsh in utility and road easements	0.96
W 44a	10.2	12.7	641	Linear marsh in utility and road easements	20.83
W 44b	10.2	12.6	619	Linear strip of exotic shrubs and trees	2.92
W 45a	12.7	12.7	641	Marsh in utility and road easements	0.11
W 45b	12.7	12.7	619	Exotic shrubs and trees in linear easement	0.21
W 46b	12.6	12.7	641	Marsh	1.20
W 48a	12.7	14.9	619	Linear strip of exotic shrubs and trees	6.17
W 48c	12.7	15.0	641	Linear marsh in transportation right-of-way	16.71
W 51a	15.0	15.3	641	Linear marsh in transportation right-of-way	2.65
W 51b	15.0	15.2	619	Linear strip of exotic shrubs and trees	0.09
W 52a	15.3	17.6	641	Linear roadside marsh	13.36
W 52b	15.3	17.4	619	Linear strip of exotic shrubs and trees	6.80
W 52c	16.1	16.1	621	Cypress wetland in transportation right-of-way	0.29
W 53a	17.6	18.0	641	Linear roadside marsh	3.49
W 53b	17.6	17.9	619	Linear strip of exotic shrubs and trees	0.80
W 54a	18.1	19.1	641	Linear roadside marsh	7.08
W 54b	18.1	18.9	619	Linear strip of exotic shrubs and trees	2.33
W 55a	19.8	19.9	625	Wet pine flatwoods in transportation right-of-way	0.08
W 55b	19.1	19.9	641	Linear roadside marsh	6.41
W 56a	19.9	20.4	641	Marsh in transportation right-of-way	2.27
W 56b	20.1	20.4	619	Exotic shrubs and trees in transportation right-of-way	1.24
W 56c	19.9	20.0	625	Wet pine flatwoods in transportation right-of-way	0.27
W 57a	20.4	22.2	641	Linear marsh in transportation right-of-way	7.81
W 57b	20.4	22.2	619	Linear strip of exotic shrubs and trees	7.43

Table 1. Temporary Wetland and Waterbody Impacts (Continued, Page 2 of 2)

Wetland ID	Begin MP	End MP	Florida Land Use Cover and Forms Classification System		Impact Area (acres)
			Code	Description	
W 59a	22.2	23.4	619	Linear strip of exotic shrubs and trees	3.55
W 59b	22.2	23.4	641	Linear roadside marsh	5.78
W 60a	23.4	24.4	641	Linear roadside marsh	4.15
W 60b	23.4	24.3	619	Linear strip of exotic shrubs and trees	0.63
W 64a	24.5	24.6	619	Linear strip of exotic shrubs and trees	0.26
W 64b	24.4	24.6	641	Linear roadside marsh	1.57
W 65	24.6	25.0	641	Linear roadside marsh	2.73
W 66a	25.0	26.5	619	Linear strip of exotic shrubs and trees	2.65
W 66b	25.0	26.5	641	Linear roadside marsh	9.63
W 67a	26.6	26.9	619	Linear strip of exotic shrubs and trees	0.56
W 67b	26.5	26.9	641	Linear roadside marsh	1.92
W 68a	26.9	28.7	641	Linear roadside marsh	11.38
W 68b	26.9	27.8	619	Linear strip of exotic shrubs and trees	2.73
W 69a	29.1	29.2	631	Shrub wetland in transportation right-of-way	0.10
W 69b	28.7	29.1	641	Linear roadside marsh	3.21
W 69c	28.7	29.1	619	Linear strip of exotic shrubs and trees	1.20
W 70a	29.2	29.9	641	Linear roadside marsh	4.98
W 70b	29.2	29.9	619	Linear strip of exotic shrubs and trees	1.98
W 70c	29.2	29.2	631	Shrub wetland in transportation right-of-way	0.10
W 71a	29.9	30.3	619	Linear strip of exotic shrubs and trees	1.44
W 71b	29.9	30.3	641	Linear roadside marsh	2.32
W 72a	30.3	30.4	641	Linear roadside marsh	0.42
W 72b	30.3	30.4	619	Linear strip of exotic shrubs and trees	0.39
W 73	30.4	30.5	641	Roadside marsh	0.35
W 74a	30.6	31.4	619	Linear strip of exotic shrubs and trees	2.91
W 74b	30.5	31.4	641	Linear roadside marsh	4.45
W 75a	31.4	31.7	619	Linear strip of exotic shrubs and trees	0.80
W 75b	31.4	31.7	641	Linear roadside marsh	1.72
W 76	31.8	32.1	641	Linear roadside marsh	1.48
Wetlands Subtotal					219.33
WB 04	1.3	1.3	511	RR ditch	0.06
WB 05	5.7	5.7	510	Canal	0.11
WB 06	6.4	6.4	511	RR ditch	0.10
WB 07	6.8	6.8	511	RR ditch	0.25
WB 24	29.2	29.2	510	Unnamed stream	0.14
WB 25	30.3	30.3	510	Canal	0.11
Waterbodies Subtotal					0.76
Total					220.09

Source: ECT, 2012.

(*Eleocharis* spp.), primrose willow (*Ludwigia peruviana*), white top sedge (*Dichromena colorata*), sweet flag (*Thalia geniculata*), sawgrass (*Cladium jamaicense*), climbing hempvine (*Mikania scandens*), sedges (*Cyperus* spp, *Carex* spp.), and beak rushes (*Rynchospora* spp.).

Shrub wetlands (631) were comprised of similar species as the marsh but also had a dominant shrub component of either buttonbush (*Cephalanthus occidentalis*) or coastalplain willow (*Salix caroliniana*).

2.2 WETLAND FOREST COMMUNITIES

Four types of wetland forest communities are within the construction right-of-way: exotic hardwoods (619), cypress (621), hydric pine flatwoods (625), and mixed wetland forest (630).

Exotic wetland hardwoods (619) are by far the most prevalent community, occurring as a linear feature along the length of the corridor between SR 710 and the CSX railroad. This community is comprised predominately of Brazilian pepper (*Schinus teribinthifolius*), shrubs, and small trees. Other species included punk tree (*Melaleuca quinquenervia*), Austrailian pine (*Casurina equiseifolia*), slash pine (*Pinus elliotii* var. *densa*), coastal plain willow, wild coffee (*Psychotria nervosa*), wax myrtle (*Myrica cerifera*), myrsine (*Myrsine floridana*), earleaf acacia (*Acacia auriculiformis*), and occasionally saw palmetto (*Serenoa repens*), dahoon holly (*Ilex cassine*), or cocoplum (*Chrysobalanus icaco*). Herbaceous species included swamp fern (*Blechnum serrulatum*), saw grass, and an occasional royal fern (*Osumundia regalis*). Dense stands of Japanese climbing fern (*Lygodium japonicum*) were also prevalent throughout this community.

A large almost homogenous forest of punk tree (619) was present near milepost (MP) 20, where the corridor is slightly wider. Smaller pockets of hydric pine flatwoods (625) were also present in this portion of the corridor.

There are two small cypress wetlands along the SR 710 roadside near MPs 13 and 16. Dominate plant species include pond cypress (*Taxodium ascendens*), red maple (*Acer rubrum*), wax myrtle, myrsine, Brazilian pepper, and swamp fern.

Mixed forested wetlands (630) include areas that are comprised of a mix of hardwood and coniferous trees. This community occurs stands north of the St. Lucie Canal, and along a linear strip between the CSX railroad and SR 710. Common species included slash pine, cabbage palm, red maple, laurel oak, coastal plain willow, Brazilian pepper, and wax myrtle.

2.3 WATER BODIES

Temporary impacts to six waterbodies are proposed (see Figure 3). These include railroad ditches, canals and streams, which combined encompass approximately 0.76 acre. Vegetation within and adjacent to the railroad ditches is primarily weedy and/or exotic species with a large concentration of Brazilian pepper. The canals and stream are open water features and lack a significant vegetation community.

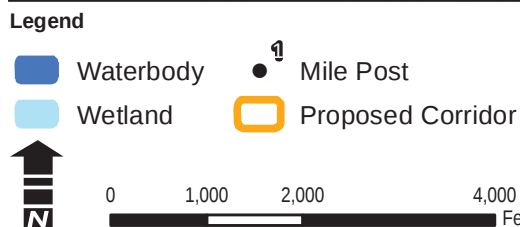


Figure 2
WETLAND OVERVIEW MAP - SHEET 1 of 9
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.



Legend

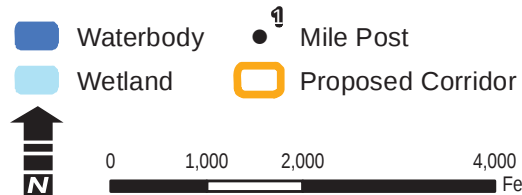


Figure 2
 WETLAND OVERVIEW MAP - SHEET 2 of 9
 MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

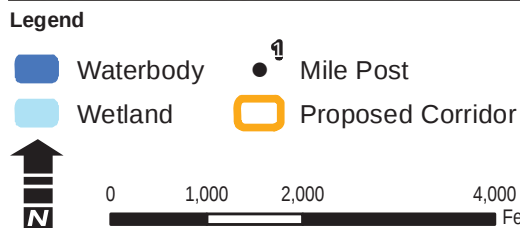
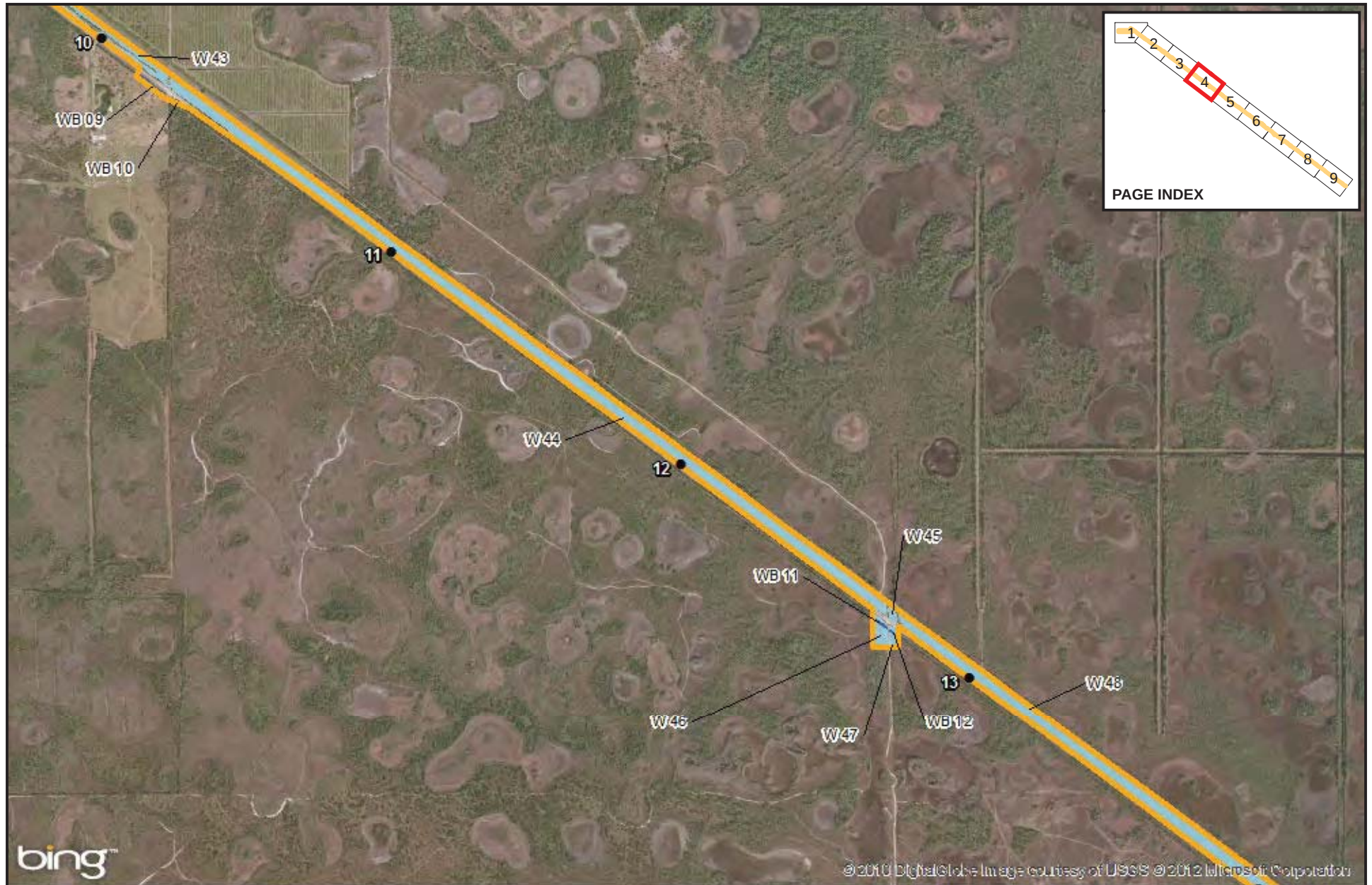


Figure 2
WETLAND OVERVIEW MAP - SHEET 3 of 9
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



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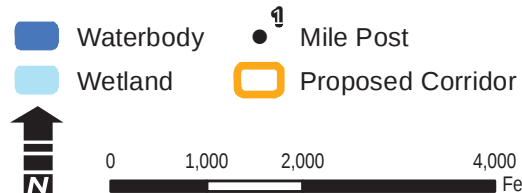


Figure 2
WETLAND OVERVIEW MAP - SHEET 4 of 9
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- Waterbody
- Wetland
- Proposed Corridor
- Mile Post



Figure 2
WETLAND OVERVIEW MAP - SHEET 5 of 9
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

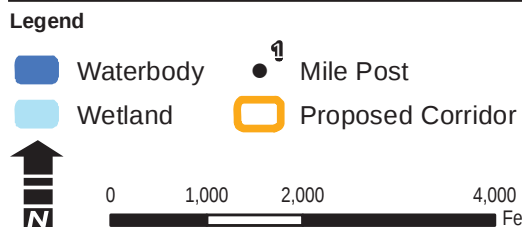
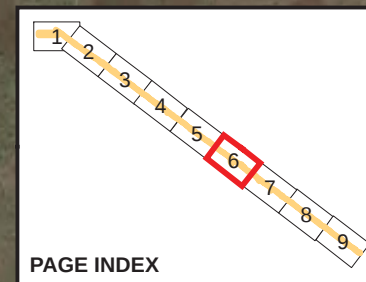


Figure 2
WETLAND OVERVIEW MAP - SHEET 6 of 9
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- Waterbody
- Wetland
- Mile Post
- Proposed Corridor



Figure 2
WETLAND OVERVIEW MAP - SHEET 7 of 9
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

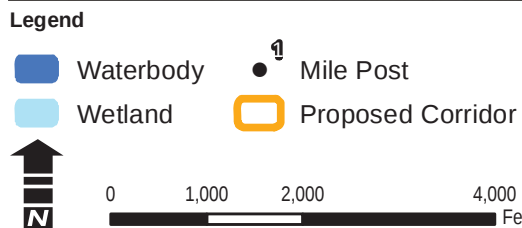
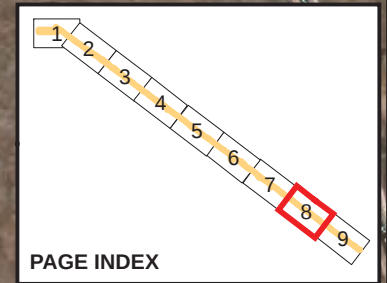


Figure 2
WETLAND OVERVIEW MAP - SHEET 8 of 9
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

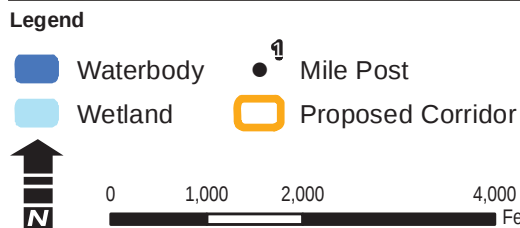
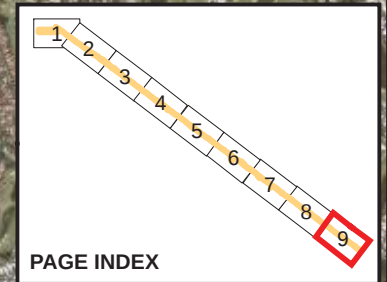
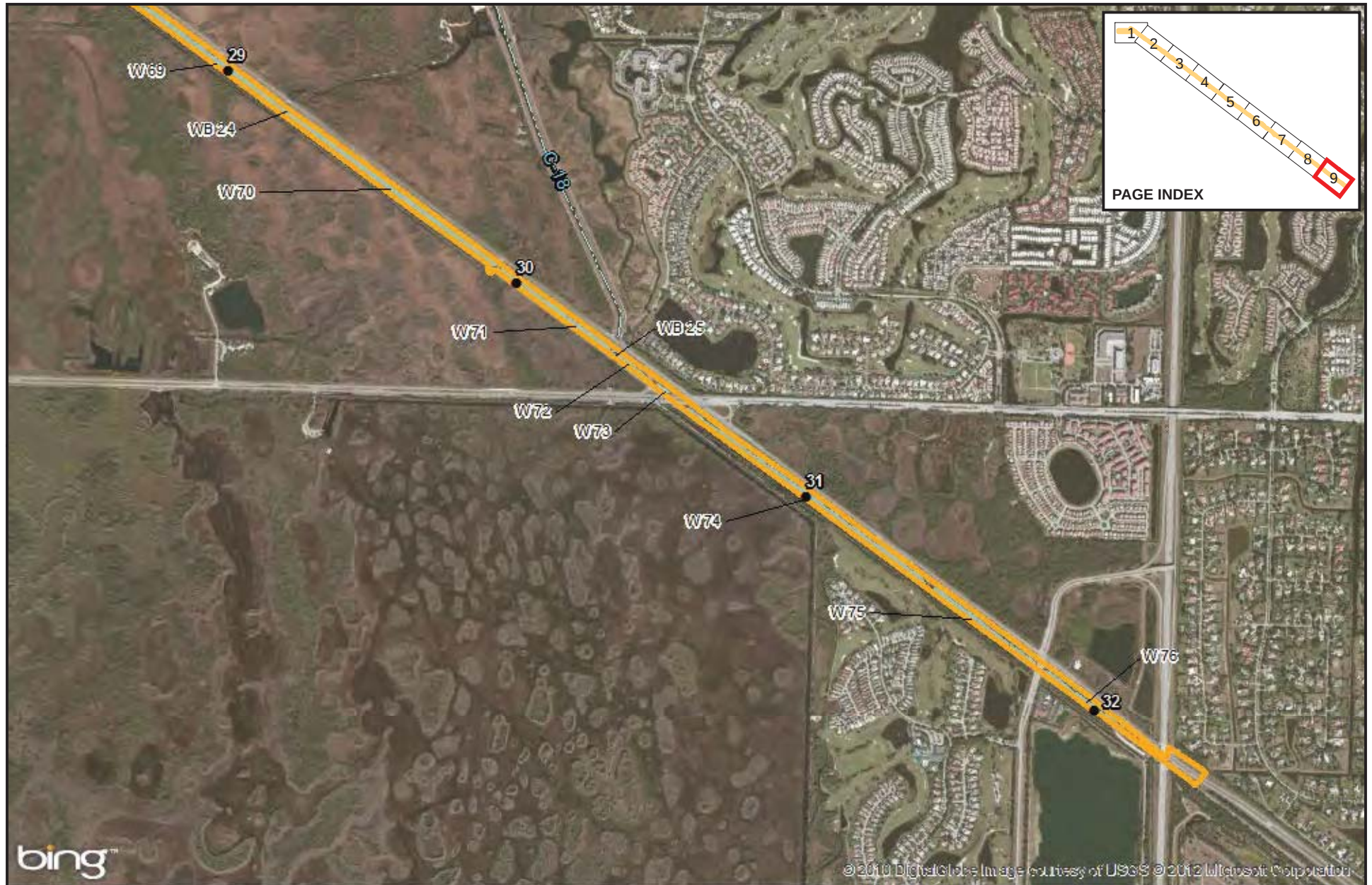
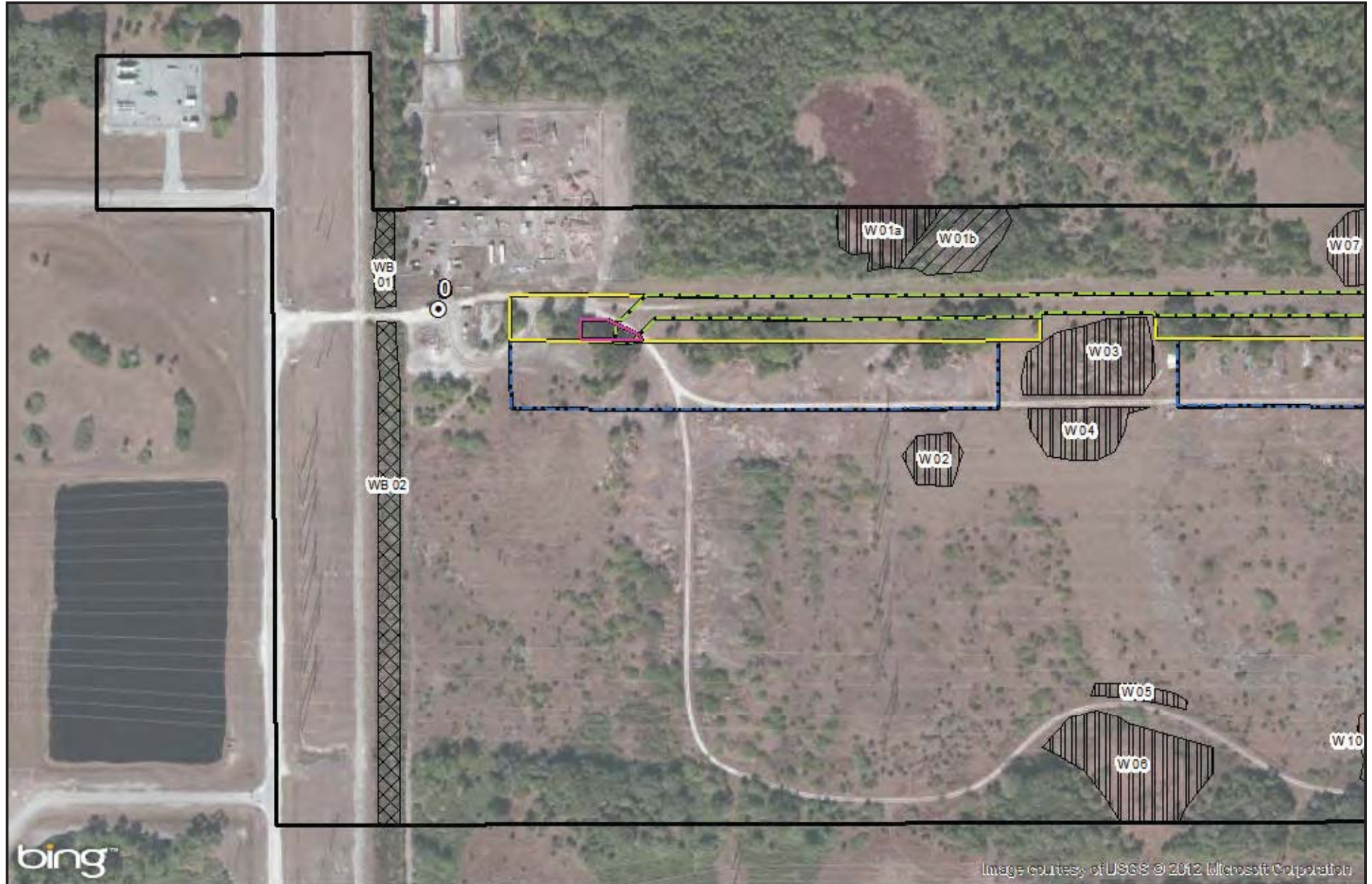


Figure 2
WETLAND OVERVIEW MAP - SHEET 9 of 9
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 1 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 2 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 3 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

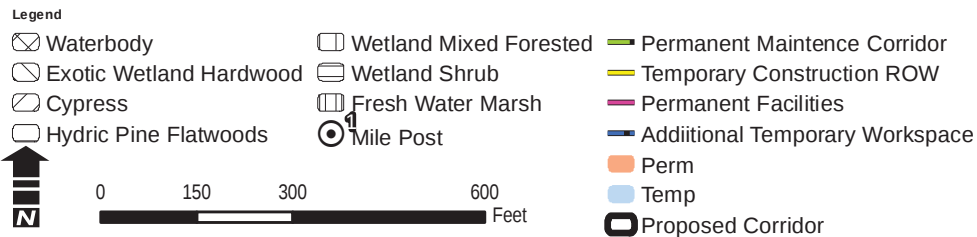


Figure 3
WETLAND DELINEATION MAP - SHEET 4 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

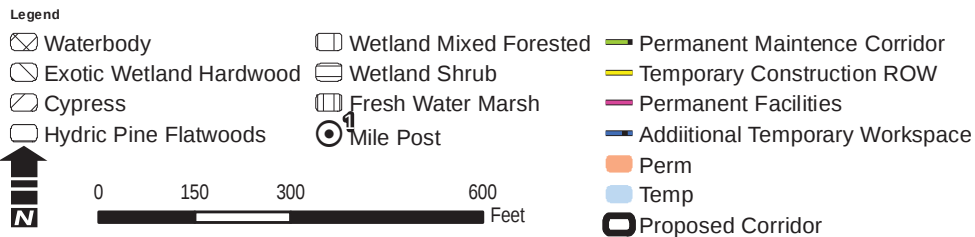


Figure 3

WETLAND DELINEATION MAP - SHEET 5 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

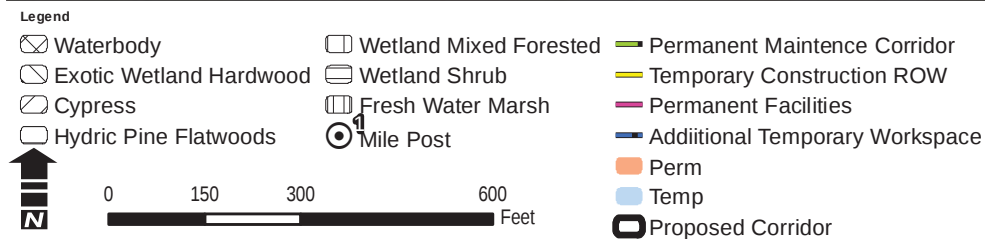


Figure 3
WETLAND DELINEATION MAP - SHEET 6 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

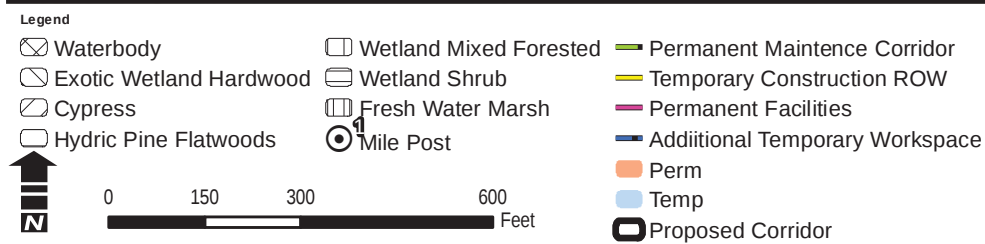


Figure 3
WETLAND DELINEATION MAP - SHEET 7 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

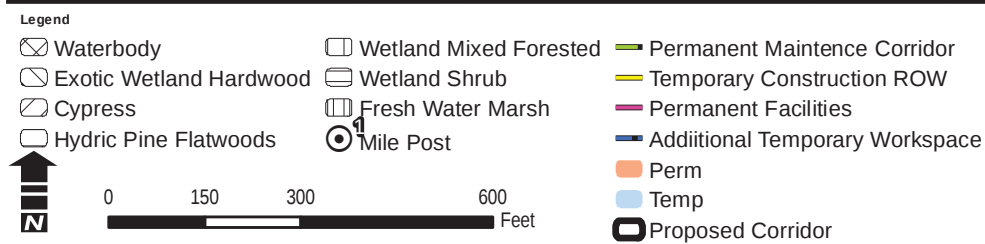


Figure 3
WETLAND DELINEATION MAP - SHEET 8 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 9 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

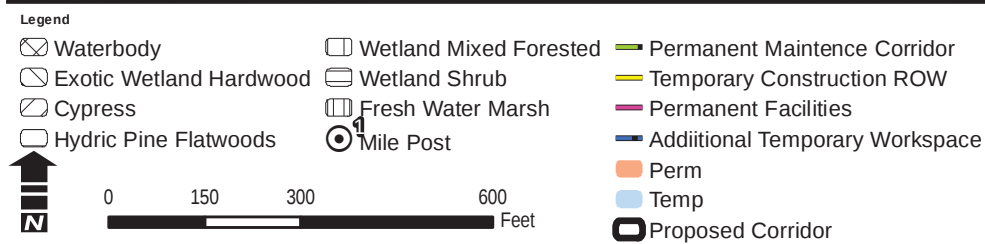


Figure 3
WETLAND DELINEATION MAP - SHEET 10 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

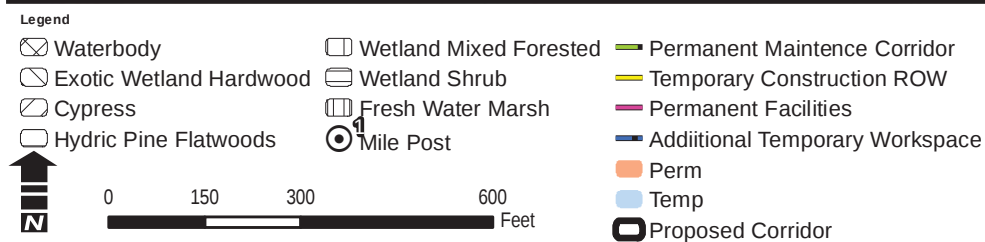


Figure 3
WETLAND DELINEATION MAP - SHEET 11 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

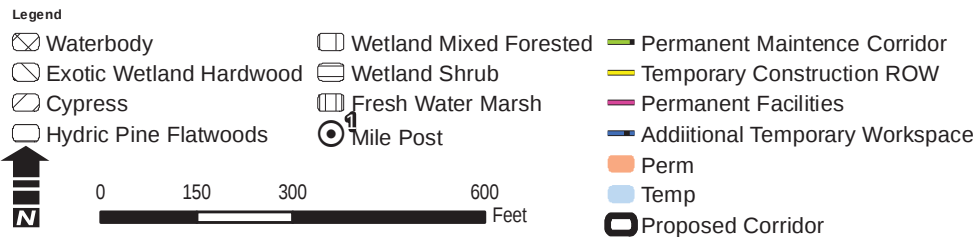


Figure 3

WETLAND DELINEATION MAP - SHEET 12 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |

0 150 300 600 Feet



Figure 3
WETLAND DELINEATION MAP - SHEET 13 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT

Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

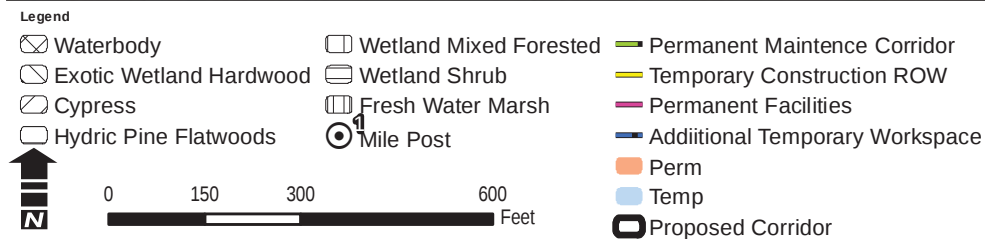


Figure 3
WETLAND DELINEATION MAP - SHEET 14 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

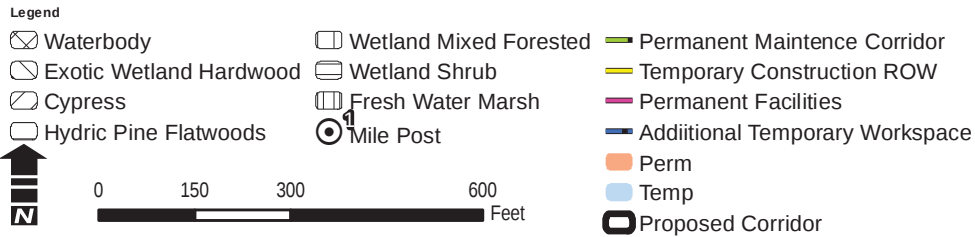


Figure 3
WETLAND DELINEATION MAP - SHEET 15 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 16 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |

Figure 3

WETLAND DELINEATION MAP - SHEET 17 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

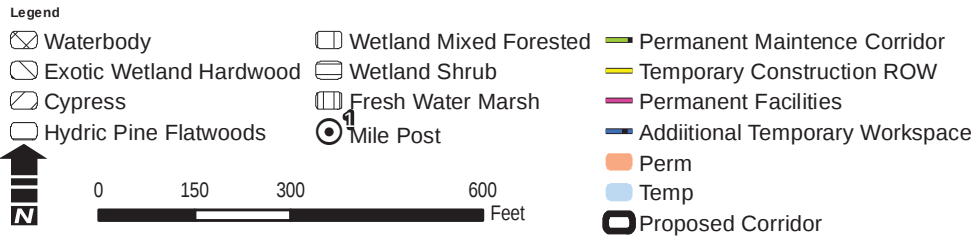


Figure 3
WETLAND DELINEATION MAP - SHEET 18 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

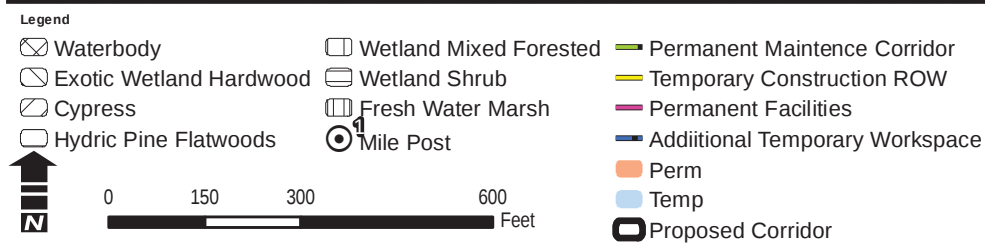


Figure 3

WETLAND DELINEATION MAP - SHEET 19 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

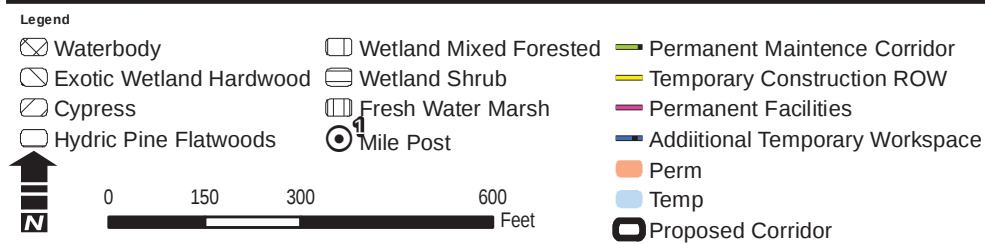


Figure 3

WETLAND DELINEATION MAP - SHEET 20 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |

0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 21 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

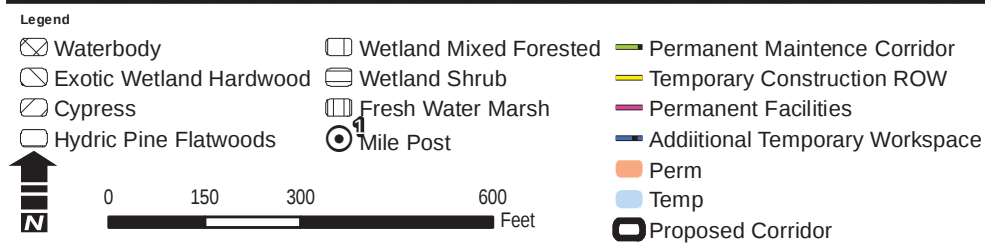


Figure 3

WETLAND DELINEATION MAP - SHEET 22 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 23 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

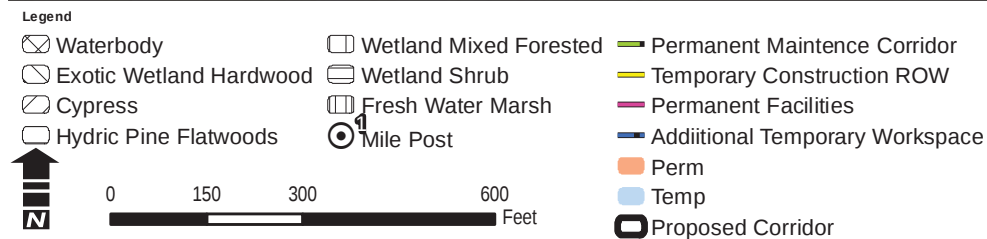


Figure 3
WETLAND DELINEATION MAP - SHEET 24 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

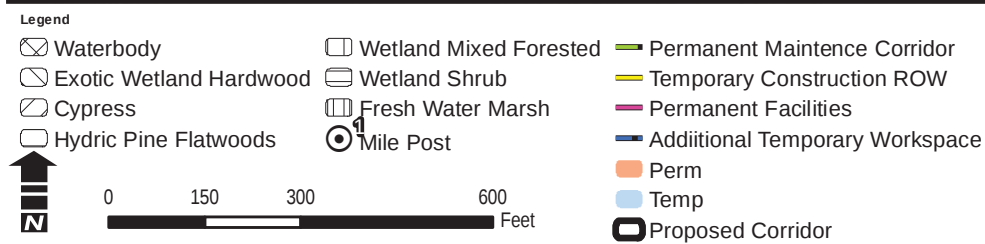


Figure 3
WETLAND DELINEATION MAP - SHEET 25 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

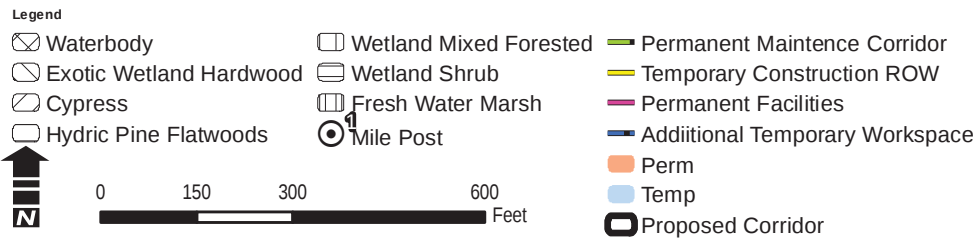


Figure 3
WETLAND DELINEATION MAP - SHEET 26 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 27 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 28 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

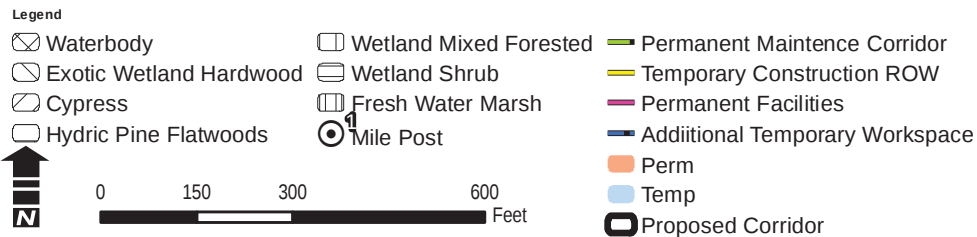


Figure 3
WETLAND DELINEATION MAP - SHEET 29 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 30 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

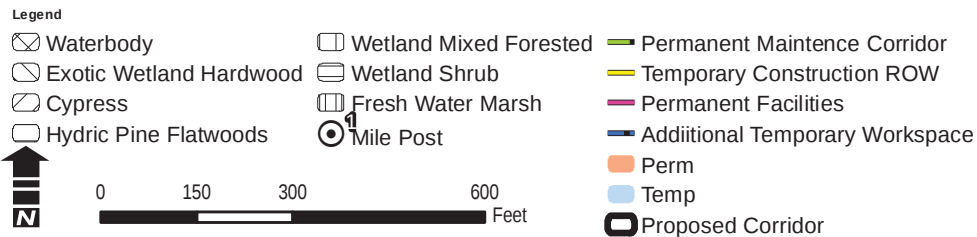


Figure 3

WETLAND DELINEATION MAP - SHEET 31 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

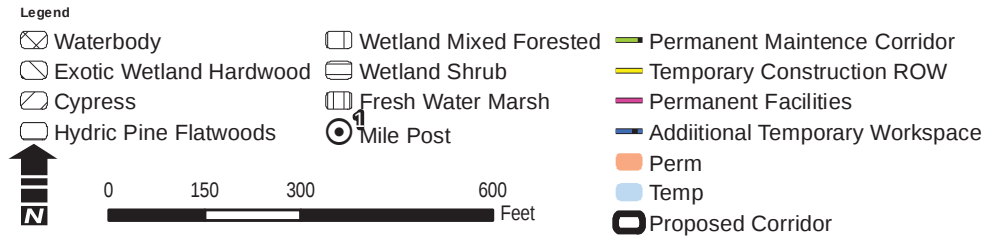


Figure 3

WETLAND DELINEATION MAP - SHEET 32 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

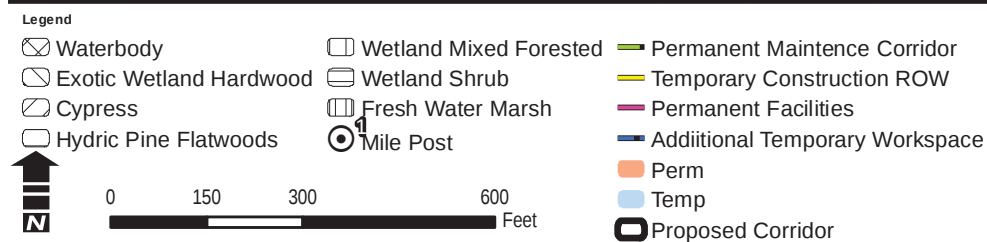


Figure 3
WETLAND DELINEATION MAP - SHEET 33 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |
- 0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 34 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

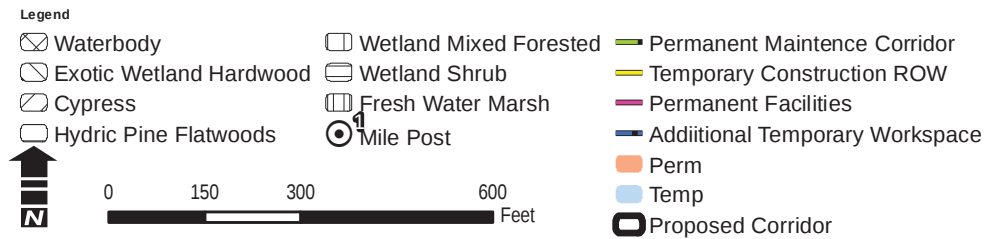


Figure 3
WETLAND DELINEATION MAP - SHEET 35 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

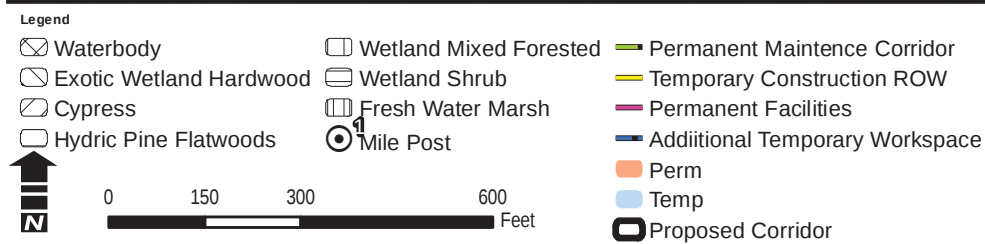


Figure 3
WETLAND DELINEATION MAP - SHEET 36 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

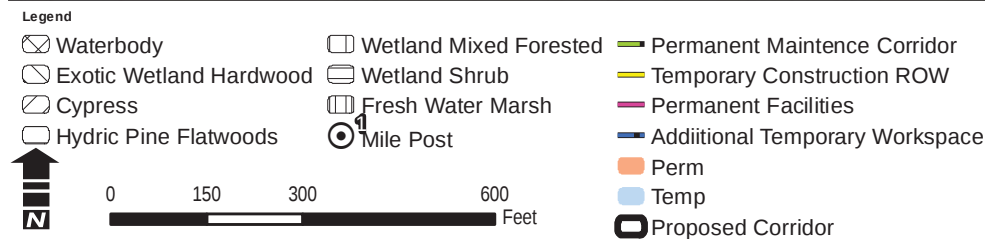


Figure 3
WETLAND DELINEATION MAP - SHEET 37 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 38 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |

Figure 3

WETLAND DELINEATION MAP - SHEET 39 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

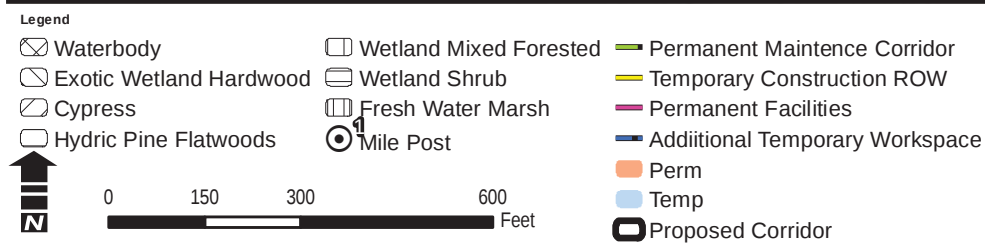


Figure 3
WETLAND DELINEATION MAP - SHEET 40 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

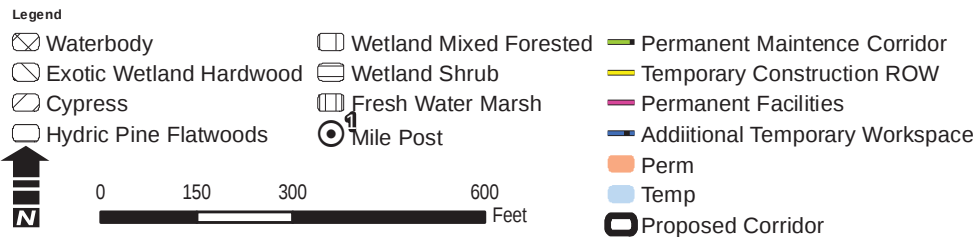


Figure 3
WETLAND DELINEATION MAP - SHEET 41 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 42 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

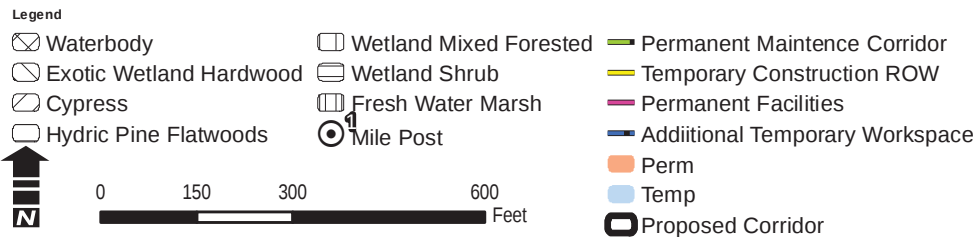


Figure 3

WETLAND DELINEATION MAP - SHEET 43 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |

0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 44 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 45 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

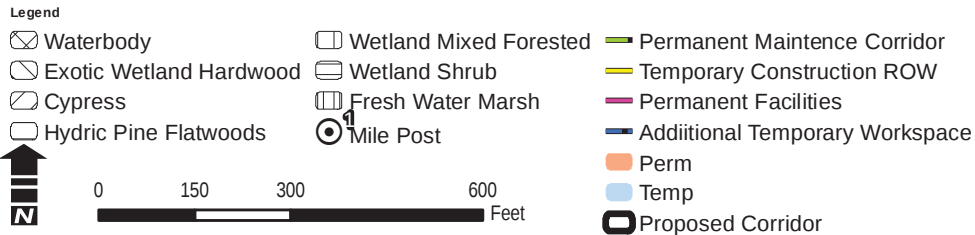


Figure 3
WETLAND DELINEATION MAP - SHEET 46 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

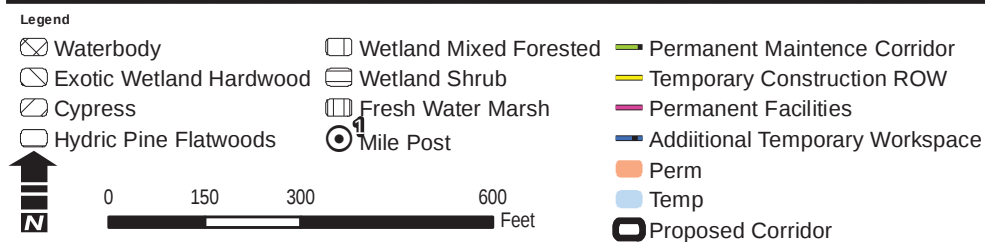


Figure 3
WETLAND DELINEATION MAP - SHEET 47 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 48 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

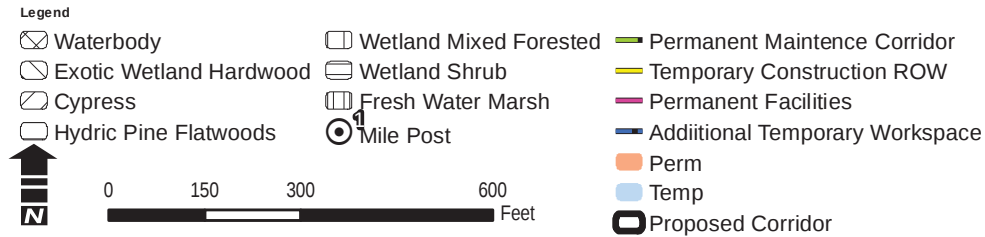


Figure 3

WETLAND DELINEATION MAP - SHEET 49 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

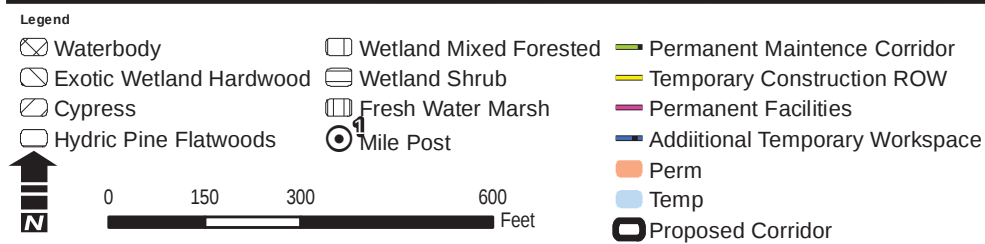


Figure 3

WETLAND DELINEATION MAP - SHEET 50 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

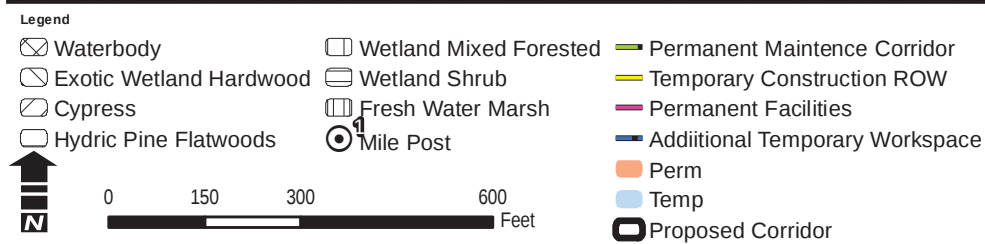


Figure 3

WETLAND DELINEATION MAP - SHEET 51 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 52 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

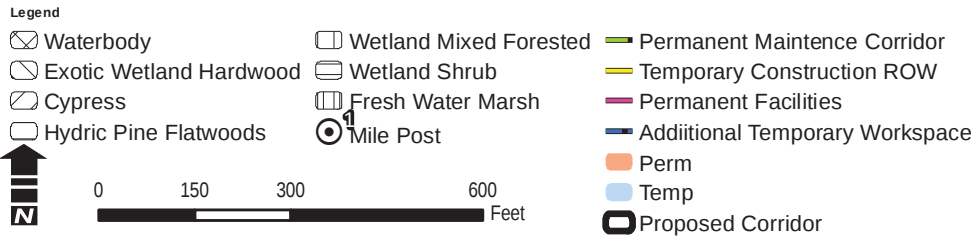


Figure 3

WETLAND DELINEATION MAP - SHEET 53 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

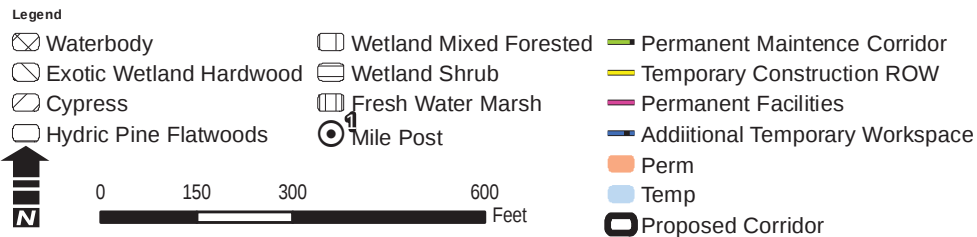


Figure 3
WETLAND DELINEATION MAP - SHEET 54 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

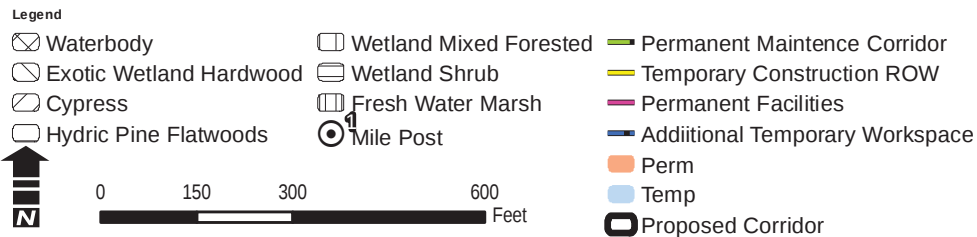


Figure 3
WETLAND DELINEATION MAP - SHEET 55 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

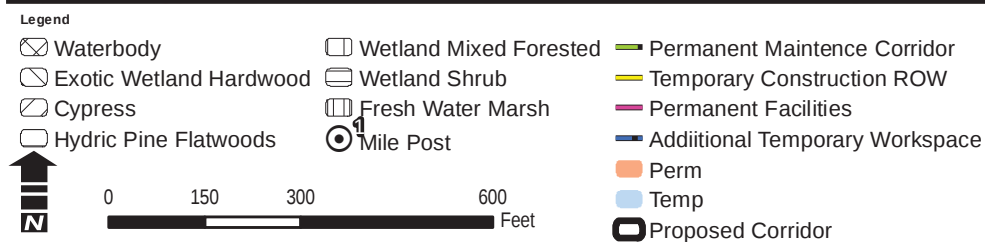


Figure 3

WETLAND DELINEATION MAP - SHEET 56 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

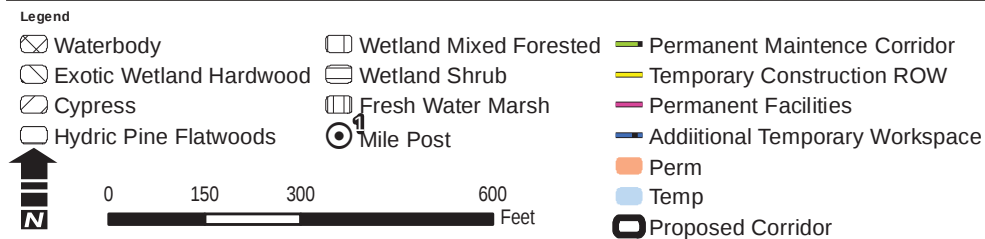


Figure 3
WETLAND DELINEATION MAP - SHEET 57 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

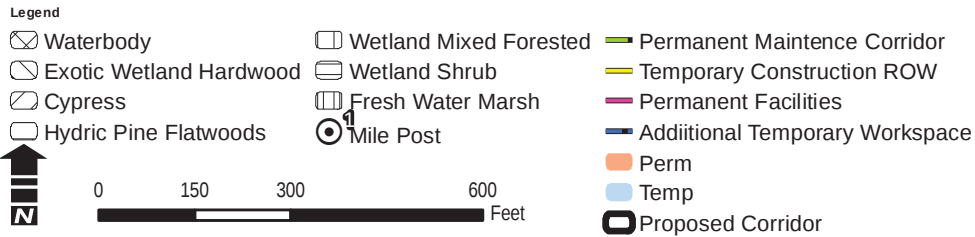
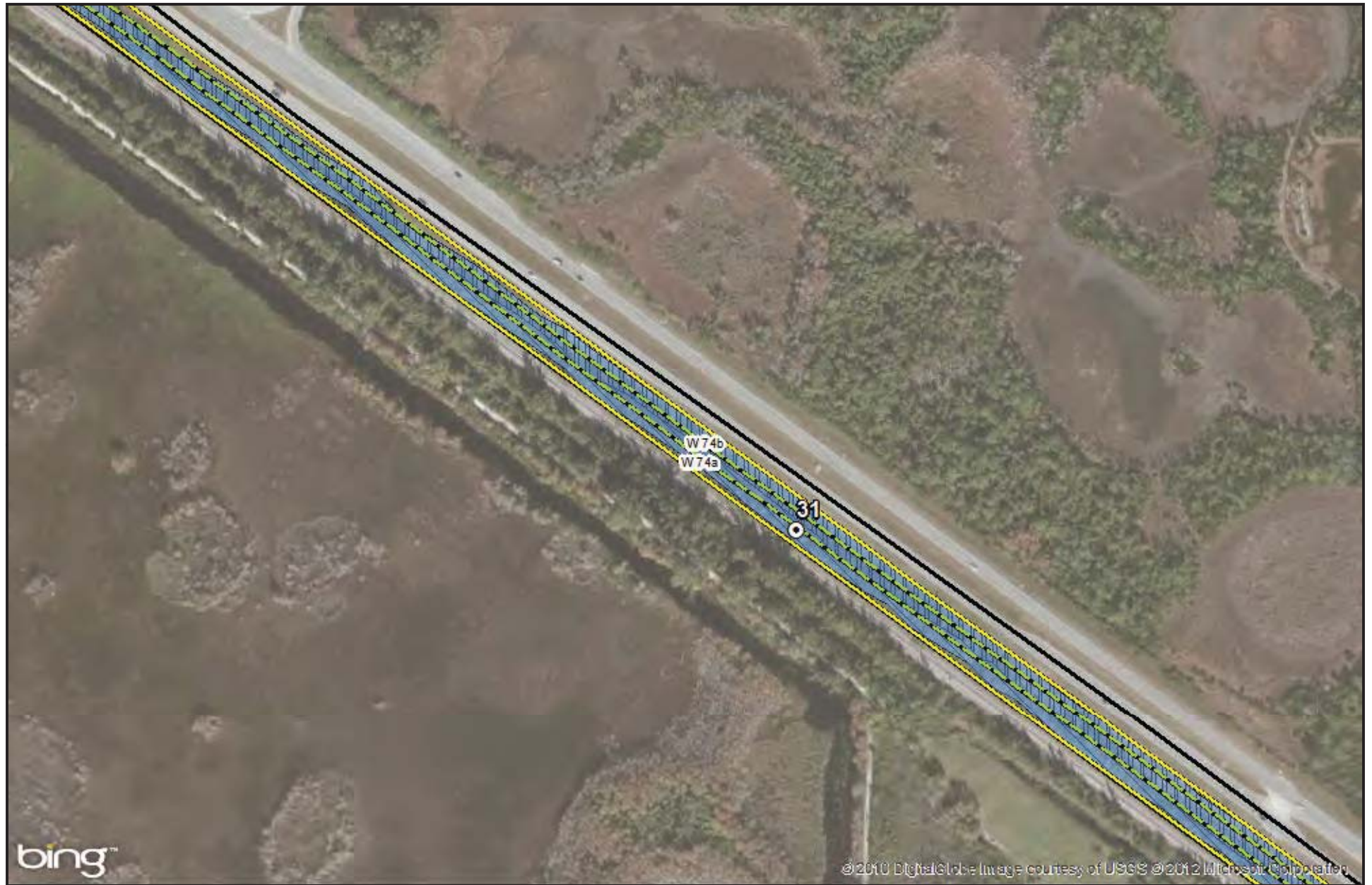


Figure 3
WETLAND DELINEATION MAP - SHEET 58 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012



Legend

- | | | |
|-------------------------|------------------------|--------------------------------|
| Waterbody | Wetland Mixed Forested | Permanent Maintenance Corridor |
| Exotic Wetland Hardwood | Wetland Shrub | Temporary Construction ROW |
| Cypress | Fresh Water Marsh | Permanent Facilities |
| Hydric Pine Flatwoods | Mile Post | Additional Temporary Workspace |
| | | Perm |
| | | Temp |
| | | Proposed Corridor |



0 150 300 600 Feet

Figure 3

WETLAND DELINEATION MAP - SHEET 59 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

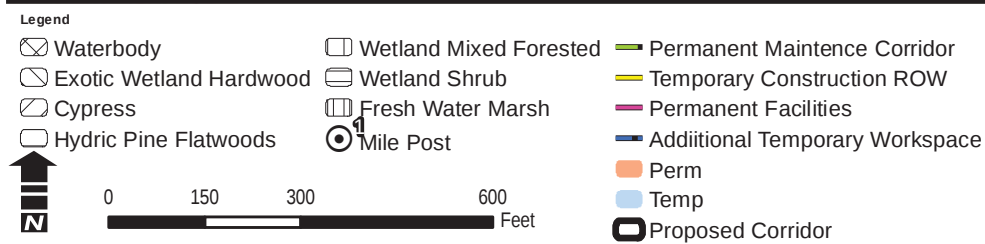


Figure 3

WETLAND DELINEATION MAP - SHEET 60 of 60
MARTIN PLANT TO RIVIERA BEACH ENERGY CENTER LATERAL PROJECT



Date: 11/18/2012

Source - BING, 2011; FPL, 2011; ECT, 2011.

3.0 RESTORATION

3.1 BACKFILL AND GRADING

Segregated topsoil will be replaced over the trenchline, and wetland contours and drainage patterns will be restored to their approximate original condition by matching that which exists in adjacent undisturbed areas. Restoring the grade and drainage patterns and replacing topsoil over the trench will promote the reestablishment of native hydrophytic vegetation. This will also minimize the loss of function provided by hydric soil characteristics such as organic matter accumulation and biogeochemical processes performed by wetland-specific microbial communities, as well as provide a seed source from preexisting wetland vegetation species. The wetland vegetation will reestablish into a similar functioning community through natural succession once construction and restoration activities are complete. In emergent wetlands, such as those that will be impacted by the Project, the herbaceous vegetation should regenerate quickly (typically within one growing season).

Ditch and canal banks will be reestablished to their original contour and, where necessary, stabilized using biostabilization measures or other approved devices.

3.2 EROSION CONTROL PLAN

Where the pipeline trench may affect wetland hydrology (e.g., drain the wetland), trench breakers will be installed, or the trench bottom will be sealed as necessary to maintain the original wetland hydrology. In areas of sloped terrain, permanent slope breakers will be constructed across the right-of-way to replace temporary erosion control barriers at wetland boundaries. Biodegradable erosion control matting (e.g. straw, coir) will be applied where needed to stabilize the ground surface.

3.3 CLEAN-UP

All vegetative debris, equipment matting or bridges, excess erosion control fencing, and general construction debris will be removed from the construction right-of-way during final clean-up.

4.0 MAINTENANCE AND MONITORING

Post-construction monitoring of wetlands and waterbodies affected by construction will be conducted in the year following completion of construction to measure the wetland restoration success. Waterbody crossings will be examined for slope stability. Wetlands will be monitored for hydrologic and re-vegetation success. Baseline photographs of wetlands and waterbodies will be taken at representative locations throughout the monitoring time frame, and the photograph stations will be located using Global Positioning System (GPS) so that the same location is identified and used as a point of reference.

Wetland re-vegetation will be considered successful when ground cover reaches at least 80 percent coverage with wetland species or is at least as vegetated as it was prior to construction. Percent coverage will be measured using 1 meter square quadrants every 0.25 mile along a transect through the linear wetlands between the CSX railroad and SR 710. Photographs will be taken of representative quadrat sampling locations and used as a means of comparison over the course of the monitoring period.

There will be four wetland monitoring events related to the Project. The first wetland monitoring event will occur prior to the beginning of construction and will monitor all wetlands and waterbodies. The second wetland monitoring event will occur immediately after completion of construction and a representative subset of the wetlands (~ 50 percent) and all waterbodies will be monitored. The third wetland monitoring event will occur six months after completion of construction and a representative subset of the wetlands (~50 percent) and all waterbodies will be monitored. The fourth wetland monitoring event will occur one year after completion of construction and all wetlands and waterbodies will be monitored.

A monitoring report will be submitted to the Department of Environmental Protection one year following completion of construction to document the baseline condition and summarize the success of the restoration. The report will include photographs taken over the course of the monitoring period, results of the vegetation sampling, and any interim measures taken to improve restoration success (e.g., regarding, erosion control, etc.).

Monitoring of the wetlands and waterbodies will cease once the restoration is considered successful (e.g., waterbody banks are stable and wetlands are revegetated with wetlands species). If after one year of monitoring, the wetland vegetation has not reached the success criteria of 80 percent wetland vegetation coverage or at least equal to the preconstruction condition in most of the sampling quadrants, then FPL will coordinate with DEP to develop an appropriate remedial action plan that may include seeding and/or planting.

APPENDIX A
PHOTOGRAPHS



Waterbody 04 – Railroad ditch surrounded by exotic shrubs and trees (511/619)



Japanese climbing fern



Wetland 30 – Linear roadside marsh (641)



Wetland 34 – Linear roadside marsh (641)



Wetland 35 – Marsh (641)



Waterbody 05 – unnamed stream/ditch



Waterbody 06 – railroad ditch



Waterbody 07 – Railroad ditch



Wetland 40c – Linear strip of mixed hardwood wetlands



Wetland 40a – Linear strip of exotic shrubs and trees (619)



Wetland 41 – Marsh (641) and exotics (619)



Wetland 46 – Marsh (641)



Wetland 55 – Linear roadside marsh (641) and exotic shrubs and trees (619)



Wetland 56 – Exotic shrubs and trees (619)



Wetland 56 – Marsh (641)



Wetland 60 – Marsh (641)



Wetland 66 – Marsh (641)



Wetland 68 – Linear roadside marsh (641) and exotic shrubs and trees (619)



Wetland 69 – Marsh (641) and exotics (619)



Waterbody 24 – Unnamed Stream



Wetland 70 – Linear strips of marsh and exotic shrubs and trees



Waterbody 25 – Unnamed canal



Wetland 72 – Linear roadside marsh and strip of exotic hardwoods (641, 619)



Wetland 73 - Roadside marsh (641)



Wetland 75 – Marsh (641) and exotic shrubs and trees (619)



Wetland 76 – Linear roadside marsh (641)