

OCT 1 2010

SITING COORDINATION



October 1, 2010

Michael Halpin, Administrator
Siting Coordination Office
Florida Department of Environmental Protection
Mail Station 48
3900 Commonwealth Blvd.
Tallahassee, FL 32399

Re: Sam O. Purdom Generating Station, No. PA-97-36C
Post Certification Amendment to Site Certification Application
8-inch St. Marks Lateral Receiver

Dear Mr. Halpin:

The City of Tallahassee's (City) Sam O. Purdom Generating Station (Purdom) is currently covered by Site Certification No. PA-97-36C. Pursuant to Rule 62-17.205(1), F.A.C., the City is requesting a Post Certification Amendment to the Site Certification for the following item.

Florida Gas Transmission Company (FGT) has requested the installation of pig receiver and supporting equipment on the 8-inch Tallahassee Purdom Lateral natural gas pipeline, located on and near the Sam O. Purdom Electrical Station in Wakulla County. This receiver is required in order to meet pipeline integrity assessment requirements recently issued by the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Pipeline Safety Regulations (Title 49 CFR Parts 190-199).

As this project was initiated by FGT, the company has already submitted applications for this project to the Florida Department of Environmental Protection and the United States Army Corps of Engineers Permitting Section, to start the permitting process. Unbeknownst to FGT, an amendment to the Site Conditions of Certification for Purdom must first be granted, prior to the initiation of construction activities. We have attached the permit applications, site drawings and assessments that FGT has already submitted, for your review, so that this project may proceed once an amendment is granted.

Because these changes at the facility will not result in any significant adverse impacts or changes in conditions of certification, we believe a Post Certification Amendment is appropriate. As this is a time sensitive matter, the City would like to request an expedited review.

Please let me know as soon as possible at (850) 891-8710, or contact John Powell, Environmental Regulatory Compliance Administrator at (850) 891-8854, if you have any questions or need any additional information concerning this request. Thank you again for your assistance with this matter.

Sincerely,

A handwritten signature in black ink that reads 'Russell A. Wider'.

Russell Wider, P.E.
Environmental Engineer



Attachments

1. FDEP Application
2. Mitigation Plan
3. Florida Department of State letter dated July 6, 2010

cc: Cynthia Barber, COT
Triveni Singh, COT
John Powell, COT
Gordon King, COT



Florida Gas Transmission Company

A Southern Union/El Paso Affiliate

2405 Lucien Way
Suite 200
Maitland, FL 32751

P.O. Box 945100
Maitland, FL 32794-5100
Tel: 407.838.7000
Fax: 407.838.7001

September 21, 2010

Russell Wider, P.E.
Environmental Engineer
Environmental Policy and Energy Resources Department
City of Tallahassee
300 South Adams Street
Tallahassee, FL 32301
(850) 891-8710
(850) 891-8277 (fax)

RE: 8-inch St. Marks Lateral Receiver at Purdom Power Plant
Wakulla County, FL

Dear Mr. Wider:

Per your request, please find enclosed a copy of the FDEP application and the recently updated Mitigation Plan prepared by our consultant, Environmental Consulting Group.

Thank you for your cooperation and assistance to FGT on this project. Please call me (407-838-7119) or Reese Kessler (407-331-6599) if you have questions.

Sincerely,

Susan Roberts

c: Reese Kessler



Florida Gas Transmission Company

A Southern Union/El Paso Affiliate

2405 Lucien Way
Suite 200
Maitland, FL 32751

P.O. Box 945100
Maitland, FL 32794-5100
Tel: 407.838.7000
Fax: 407.838.7001

September 16, 2010, 2010

Overnight

Thomas Franklin, Supervisor
Compliance/Enforcement & Permitting
Tallahassee Branch Office, 630-3 Capital Circle NE
Tallahassee, Florida 32301

E-mail: Thomas.Franklin@dep.state.fl.us
Phone: 850-488-3704 ext 120

RE: 8-inch St. Marks Lateral Receiver at Purdom Power Plant
Wakulla County, FL
Joint Application

Dear Mr. Franklin

Please find enclosed a Joint Application to install a pig receiver and supporting equipment on the 8-inch Tallahassee Purdom Lateral, located near the Sam O. Purdom Electrical Station in Wakulla County.

The receiver is required in order to meet pipeline integrity assessment requirements recently issued by the U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Pipeline Safety Regulations (Title 49 CFR Parts 190-199).

As you know, FGT concurrently pursues applicable right-of-way clearances with landowners. For this project, all construction activities will be performed within the existing permanent and temporary easements. A copy of the agreement between FGT and the FDEP is attached, which clarifies the concurrent clearance procedures and requests the environmental permit not be delayed pending ROW issues.

As you know, there is no mitigation bank within the service area of the proposed project. Therefore, FGT has designed a mitigation plan to enhance the watershed by creating diversity with an open water pond and herbaceous wetland area.

Please forward via email to me (susan.roberts@sug.com) the amount for the ERP Application fee, and I will have the check issued immediately. In addition, should you or the reviewer assigned to process this permit have any questions, I request if possible the opportunity to respond immediately if possible via email exchange in order to reduce the processing time.

In order to assist in the processing of this Joint Application, I am also sending a copy of this application to the U.S. Army Corps of Engineers Permitting Section.

Thank you for your cooperation and assistance to FGT on this project. Please call me (407-838-7119) or Reese Kessler (407-331-6599) if you have questions.

Sincerely,

Susan Roberts

c: Reese Kessler
USACE Jacksonville District Panama City Permitting Section (850-763-0717)
Kevin O'Kane, Section Chief
1002 West 23rd Street, Suite 350
Panama City, FL 32405

Joint Application for Works in the Waters of Florida

Department of the Army (Corps/Florida Department of Environmental Protection (DEP)/
Water Management District (WMD)

Corps Application Number (official use only)

DEP Application Number (official use only)

Type or Print Legibly

1. Applicant's Name and Address

Name Florida Gas Transmission Company

Last Name, First Name (if individual); Corporate Name; Name of Govt. Agency

Street 2405 Lucien Way, Suite 200

City Maitland State: Florida Zip: 32751

Telephone (407) 838-7119 Fax (407) 838-7101 (Day) ___ (Night) ___

2. Name, Address, Zip Code, Telephone Number and Title of Applicant's Authorized Agent

Name Roberts, Susan

Last Name, First Name

Corporate Name; Name of Govt. Agency Florida Gas Transmission Company

Street 2405 Lucien Way, Suite 200

City Maitland State Florida Zip 32751

Telephone (407) 838-7119 Fax (407) 838-7101

Susan.Roberts@SUG.com (Day) ___ (Night) ___

3. Name of Waterway at Work Site:

4. Street, Road or Other Location of Work St. Marks Refinery Road

Incorporated City or Town St. Marks

Section 11 Township - 04S Range 01E

Section ___ Township - ___ Range

Section ___ Township - ___ Range

County(ies) Wakulla

Coordinates in Center of Project:

Latitude 30° 9' 46.00"

Longitude 84° 12' 08.00"

Federal Projects Only: ___ x ___ y

Lot ___ Block ___ Subd ___ Plat Bk ___ Pg

Directions to Locale Site: The site is located on St. Marks Refinery Road, approximately 2 miles south of the intersection of US Hwy. 98 and SR 363

5. Names, Addresses, and Zip Codes of Adjacent Property Owners Whose Property Also Adjoins the Water (Excluding Applicant). Show Numbers or Names of These Owners on Plan Views. If More Than Six (6) Owners Adjoin the Project, You May Be Required to Publish a Public Notice for the DEP.

1. City of Tallahassee (FGT Easement)

2.

3.

4.

5.

6.

6. Proposed Use (Check one or more as applicable) Private: Single Family ☐ Multi-Family ☐
Public ☐ Commercial ☒ New Work ☒ Alteration of Existing Works ☒ Maintenance ☒ Other (Explain):

7. Desired Permit Duration (see Fee Schedule): 5 Yr. ☒ 10 Yr ☐ Other (Specify)

8. General Permit or Exemption Requested:

DEP General Permit FAC Rule 17-312.030 DEP Exemption FAC Rule 17-312.050 (1) (I) Section 403. FS.

9. Total Extent of Work In Jurisdictional Open Waters or Wetlands: (Use additional sheets and provide complete breakdown of each category if more space is needed.

a. Within Corps Jurisdiction:

Fill: 2500 Sq. Ft. 0.057 Acres 278 Cu. Yds

Excavation: Sq. Ft. Acres Cu. Yds.

b. Within DEP Jurisdiction:

Fill: 2500 Sq. Ft. 0.057 Acres 278 Cu. Yds.

Excavation: Sq. Ft. Acres 278 Cu. Yds.

Excavation Waterward of MHW cu. yds (information needed for DEP)

c. DEP Jurisdictional Area Severed (Area Landward of Fill Structures which will be Severed):
2500 Sq. Ft. 0.057 Acres

d. DEP Jurisdictional Area Created (New Excavation from Uplands, Exclusive of Mitigation):
N/A Sq. Ft. Acres

e. Docks, Piers, and Over Water Structures:

Total Number of Slips: N/A Total Number of Mooring Pilings: N/A

Length Width Height above MHW

Length Width Height above MHW

Number of Finger Piers Length Width Height

Number of Finger Piers Length Width Height

Total area of structure over waters & wetlands sq. ft.

Use of structure

Will the docking facility provide:

No Yes Number

Live-aboard Slips

☐ ☐

Fueling Facilities

☐ ☐

Sewage Pump-out Facilities

☐ ☐

Other Supplies or Services Required for Boating
(Excluding refreshments, bait and tackle)

☐ ☐

f. Seawall length: ft. Seawall material:

Riprap revetment length: ft. Slope H: V: Toe width

Riprap at toe of seawall length ft. Slope H: V: Toe width

Size of riprap:

Type of riprap or seawall material:

g. Other (See item 10).

10. Description of Work (be specific; use additional sheets as necessary).

Florida Gas Transmission Company proposes to construct a pig receiver on the 8-inch St. Marks Lateral, adjacent to the existing Sam O. Purdom Generation Station. The proposed construction is in Section 11, Township 04 South, Range 01 East, Wakulla, Florida.

The proposed construction will allow pipeline maintenance and inspection to ensure pipeline integrity as required by the U. S. Department of Transportation (DOT) for safety purposes. The existing pipeline, constructed of welded carbon steel and externally coated with thin film fusion bond epoxy coating, is surrounded by a protective casing and protected from external corrosion by an impressed cathodic current. The design life of this facility is indefinite. All facilities will be designed and constructed to Title 49 of the Code of Federal Regulations (CFR) Part 192 – DOT Pipeline Safety Regulations.

Construction Approach (Proposed Construction Methods and Procedures)

The proposed method of construction involves:

- Installing silt screens and other erosion control devices (ECD).
- Installing pipeline, pigging receiver and associated structures
- Grading all areas to original contours, seed, mulch, and sod (uplands).
- Maintaining silt screens until impacted area has stabilized with vegetation (see Mitigation Plan below).

Turbidity and erosion control devices (ECD) will be installed prior to the commencement of any construction activities. The ECDs will be maintained throughout the life of the project and will also delineate the limits of construction. Final grade within the temporary work areas will be returned to the preexisting elevations and contours.

During construction there will be no stockpiling of construction materials, spoil, equipment, tools, or other related materials outside of the designated work areas. The temporary impact area will be restored by returning the site to original grades, allowing natural recruitment to stabilize the soils.

Please refer to the attached project drawings, which illustrate the proposed construction detail.

Project Access and Equipment

Access to the proposed project site will be existing paved roads. Equipment for the proposed construction will consist of backhoe and grader. No roads will be constructed for access. During construction there will be no stockpiling of construction materials, spoil, equipment, tools, or other related materials outside of the designated work areas.

No wetland area other than that indicated on the attached wetland permit drawing will be impacted by FGT.

Wetland Impacts

Wetland delineation was conducted by Environmental Consulting Group, Inc. on March 19, 2010 in accordance with Chapter 62-340, F.A.C. and in accordance with the U.S. Army Corps of Engineers Wetland Delineation Manual (Regional Supplement). In addition, the subject site was reviewed for potential occurrence of habitat for species protected by the U.S. Fish and Wildlife Service and the Florida Fish and Wildlife Conservation Commission.

Please see the attached report from Environmental Consulting Group, Inc. for a description of the site and the wetlands.

Public Interest

The proposed project is not located within an Outstanding Florida Water and is not contrary to the public interest for the following reasons:

1. The proposed pipeline will be constructed of welded carbon steel and will be externally coated with thin film fusion bond epoxy coating and protected from external corrosion by an impressed cathodic current. The design life of this facility is indefinite. All facilities will be designed and constructed to 49 CFR Part 192 – DOT Pipeline Safety Regulations.
2. The site inspection report indicates that the project area does not include threatened and endangered species habitat (wetland). The proposed construction techniques and post construction plans will restore the habitat conditions.
3. The proposed project does not include navigable waterways. At all wetland areas the project includes the placement of silt screens/hay bales to contain sedimentation to the limits of the project workspace, project site revegetation, and the maintenance of the silt screens/hay bales until revegetation has been achieved.
4. The project area does not include areas suitable for fishing or water recreation.

5. The project alignment uses an existing FGT easement and a temporary workspace (easement). All wetland impact areas are temporary and will be allowed to re-colonize with wetland vegetation
7. The temporary impact areas will be returned to the original grade and allowed to recolonize. Permanent impacts will be compensated by purchasing credits from a wetland mitigation bank

Mitigation/Restoration Plan

Grades within the temporary impact area will be returned to the pre-existing elevations and contours. Once the disturbed area has stabilized and vegetated, the ECDs will be removed.

Permanent wetland impacts will be offset by enhancing the temporary workspace to include planting herbaceous wetland native plant species (*Osmunda cinnamomea*, *Woodwardia virginica*, *Peltandra virginica*, *Lyonia lucida*, and *Ilex cassine*) in the hydric areas, and constructing a pond and planting suitable native plants that can tolerate extended periods of time inundated (*Pontederia cordata*, *Sagittaria lancifolia*, *Sagittaria latifolia*, and *Orontium aquaticum*).

Please refer to drawing P8-101 for the Mitigation Plan.

11. Turbidity, Erosion, and Sedimentation Controls Proposed:

Protective measures as outlined in FGT's "Wetland and Waterbody Construction and Mitigation Procedures" and "Upland Erosion Control, Revegetation and Maintenance Plan" will be utilized during the proposed construction. Copies of these procedures are enclosed for your information.

Dewatering, if needed, will be accomplished by using pumps and hoses in order to discharge the water on uplands. The water will be discharged into filter bags that are surrounded by hay bales and silt screens. Water will be filtered through the filter bags and hay bales and will sheet flow across grassed areas before reaching the adjacent wetland. Silt screens and hay bales will be installed at the discharge point along the wetland perimeter.

At a minimum, turbidity will be monitored at two-hour intervals during periods of construction. In the event turbidity standards are exceeded, all construction that caused the elevated turbidity levels will cease, the Department will be notified by telephone and informed of the remedies taken to correct the problem. Construction will resume after the corrective actions have been completed.

Turbidity and sedimentation during construction will be controlled using best management practices. Turbidity devices such as silt screens and/or hay bales will be used along the wetland perimeter adjacent to the project work area to contain turbidity and sedimentation within the proposed FGT workspace on uplands.

Upland areas will be stabilized with seed and mulch according to procedures described in the "Upland Erosion Control, Revegetation and Maintenance Plan". Turbidity devices including silt screens and/or hay bales will remain in place and will be routinely inspected and maintained until affected areas are stabilized with vegetation.

Wetland areas will be stabilized as stated above.

12. Date Activity is Proposed to Commence: 11/01/2010

to be Completed: 12/31/2010

Total Time Required to Construct:

13. Previous Applications for this Project have been: ____

DEP No.: ____ Corps No.:

A. Denied (date):

B. Issued (date):

C. Other (please explain):

Differentiate between existing work and proposed work on the drawings.

14. Certification. Application is hereby made for a permit or permits to authorize the activities described herein.

A. I Certify That: (Please check appropriate space)

1. I am the record owner ☐; lessee ☐, or the record easement holder ☐ of the property on which the proposed project is to be undertaken, as described in the attached legal document.

2. I am not ☒ the record owner, lessee or record easement holder of the property on which the proposed project is to be undertaken, as described in the attached legal document, but I will have, before undertaking the proposed work the requisite property interest. (Please explain what the interest will be and how it will be acquired.)

Please see attached ROW Procedures

Attach legal description of property or copy of deed to the property on which project is to occur (must be provided).

B. I understand I may have to provide any additional information/data that may be necessary to provide reasonable assurance or evidence that the proposed project will comply with the applicable State Water Quality Standards or other environmental standards both before construction and after the project is completed.

C. In addition, I agree to provide entry to the project site for inspectors with proper identification or documents as required by law from the environmental agencies for the purpose of inspecting the site. Further, I agree to provide entry to the project site for such inspectors to monitor permitted work, if a permit is granted.

D. This is a Joint Application and is not a Joint Permit. I hereby acknowledge the obligation and responsibility for obtaining all of the required state federal or local permits before commencement of construction. I also understand that before commencement of this proposed project, I must be granted separate permits or authorizations from the U.S. Corps of Engineers, the U.S. Coast Guard, the Department of Environmental Protection and the Delegated Water Management District (where applicable), as necessary.

E. I am familiar with the information contained in this application, and that to the best of my knowledge and belief, such information is true, complete and accurate, I further certify that I possess the authority to undertake the proposed activities or am acting as the duly

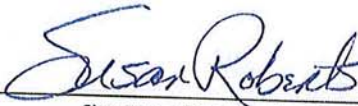
authorized agent of the applicant. I understand that knowingly making any false statement or representation in this application is a violation of Section 403.161, ES. and Chapter 837, FS.

Susan Roberts

Typed/Printed Name of Applicant or Agent

Environmental Project Manager

(Corporate Title if applicable)



Signature of Applicant or Agent

09/17/10

Date

AN AGENT MAY SIGN ABOVE IF APPLICANT COMPLETES THE FOLLOWING:

I hereby designate and authorize the agent listed above to act on my behalf as my agent in the processing of this permit application and to furnish on request, supplemental information in support of the application.

Typed/Printed Name of Applicant

Signature of Applicant

Date

(Corporate Title if applicable)

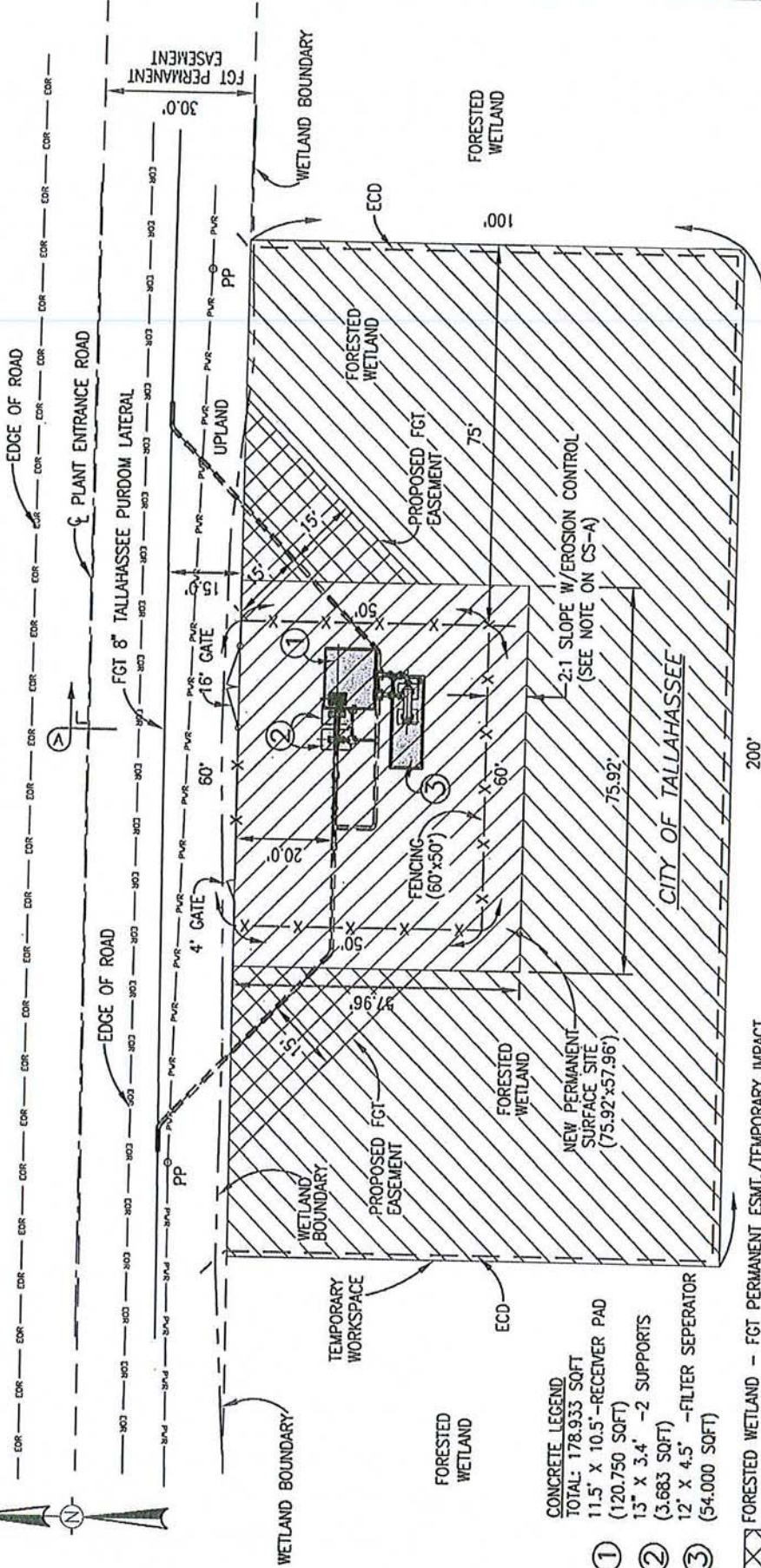
15. For your Information: Section 370.034, Florida Statutes, requires that all dredge and fill equipment owned, used, leased, rented or operated in the state shall be registered with the Department of Natural Resources. Before selecting your contractor or equipment you may wish to determine if this requirement has been met. For further information, contact the Chief of the Bureau of Saltwater Licenses and Permits, Department of Natural Resources, 3900 Commonwealth Blvd, Tallahassee- Florida 32399. Telephone No. (904) 487-3122. This is not a requirement for a permit from the Department of Environmental Regulation.

18 U.S.C. Section 1001 provides that, Whoever, in any manner within the jurisdiction of any department or agency of The United States knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both.

16. Please submit this completed form, with attached drawings and the complete DEP processing fee to the appropriate DEP or Delegated WMD office with jurisdiction over the project site.

WAKULLA COUNTY, FLORIDA

T-4-S, R-1-E
SECTION 2



CONCRETE LEGEND

TOTAL: 178,933 SQFT

11.5' X 10.5' - RECEIVER PAD
(120,750 SQFT)

13' X 3.4' - 2 SUPPORTS
(3,683 SQFT)

12' X 4.5' - FILTER SEPARATOR
(54,000 SQFT)

FORESTED WETLAND - FGT PERMANENT ESMT./TEMPORARY IMPACT
0.032 ACRES±

FORESTED WETLAND - TEMPORARY WORKSPACE
0.327 ACRES±

FORESTED WETLAND - FGT RECEIVER SITE/PERMANENT IMPACT
0.101 ACRES±

NOTE:

- ECD - EROSION CONTROL DEVICE
- TURBIDITY OUTSIDE OF THE APPROVED WORK AREAS TO BE CONTROLLED USING APPROPRIATE BMP'S AS PER PERMIT AND AS DEPICTED ON DRAWING.
- WETLAND DELINEATION BY ENVIRONMENTAL CONSULTING GROUP, INC.
- SURVEY BY UNIVERSAL ENSCO
- DRAWING FOR ENVIRONMENTAL PERMITTING ONLY IN ACCORDANCE WITH CHAPTER 62-340 FAC & USAGE 1987 WETLAND DELINEATION MANUAL.
- AREA IN TWS WILL RECOLONIZE THROUGH NATURAL RECRUITMENT AND SPECIFIC PLANTINGS DETAILED IN MITIGATION PLAN.

CADD NAME:

**Florida Gas
Transmission
Company**

A Southern BellSouth Power Atlanta

DWG. NO.

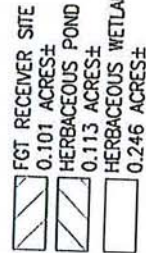
P8-100

8" TALLAHASSEE PURDOM LATERAL
12.750" O.D. RECEIVER
© PURDOM POWER PLANT
WETLAND PERMIT
WAKULLA COUNTY, FLORIDA

W.O.	722323R	2010	Construction
Dr. By	JML	Date	Scale
Dwg. Stat.	Cld. By	Date	App. By
Prel'y.		Date	App. By
Bid		Date	App. By
Const.		Date	App. By

200'
REF. DWG. CS-A

T-4-S, R-1-E
SECTION 2



- EOD - EROSION CONTROL DEVICE
- TURBIDITY OUTSIDE OF THE APPROVED WORK AREAS TO BE CONTROLLED USING APPROPRIATE BMP'S AS PER PERMIT AND AS DEPICTED ON DRAWING.
- WETLAND DELINEATION BY ENVIRONMENTAL CONSULTING GROUP, INC.
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- AREA IN TWS WILL RECOLONIZE THROUGH NATURAL RECRUITMENT AND SPECIFIC PLANTINGS DETAILED IN MITIGATION PLAN.

W.O. 722323R		2010		Construction	
Dr. By		Date	Scale		
JPD		8/10	1"=30'		
Owg. Stat.	Ckd. By	Date	App. By	Date	
Proj'y.	SR	08/10			
Eld					
Const.					

8TH TALLAHASSEE PURDUM LATERAL
12.750" O.D. RECEIVER
@ PURDUM POWER PLANT
MITIGATION PLAN
WAKULLA COUNTY, FLORIDA

**Florida Gas
Transmission
Company**

Southern UnionTM Pass America

DWG. NO.

P8-101

CADD NAME:



The diagram illustrates the layout of the proposed FGT permanent easement and temporary workspace. Key features include:

- TEMPORARY WORKSPACE:** A total width of 42.04'.
- PROPOSED FGT PERMANENT EASEMENT:** A total width of 57.96'.
- FENCED AREA:** A central section with a width of 50'.
- FGT PERMANENT EASEMENT (EXISTING):** A section on the left with a width of 30'.
- ROAD EDGE:** The boundary between the existing easement and the temporary workspace.
- 2" PLANT ROAD:** A narrow road adjacent to the road edge.
- 3" 8" PIPELINE:** A pipeline running parallel to the road edge.
- PROP. FENCE:** A proposed fence line within the easement.
- FINISHED GRADE EL. 8.66':** The elevation of the finished grade at the fence line.
- 4" GRAVEL:** A gravel area adjacent to the finished grade.
- PROPOSED FENCE:** A proposed fence line within the easement.
- TOP SLOPE:** The slope of the land adjacent to the proposed fence.
- EROSION CONTROL (SEE NOTE):** A note indicating erosion control measures.
- NAT. GND. EL. 4.35':** The elevation of the natural ground.
- 2:1 SLOPE:** The slope of the land adjacent to the natural ground.
- FILL AREA:** A shaded area representing the fill.
- 8" TALLAHASSEE PURDOM LATERAL:** A lateral line running parallel to the road edge.

NOTE:

EROSION CONTROL

ONE LAYER OF MIRAFI MIRAMESH GR
(CONTINUOUS ALL AROUND) INSTALLED PER
MANUFACTURERS RECOMMENDATIONS

W.O.		722323R		2010		Construction	
Dr. By	Date	7/24/'10		Scale 1"=20'			
JML				App. By	Date	App. By	Date
Dwg. Stat.	Ckd. By						
Prel'y.							
Bld							
Const.							

8" TALLAHASSEE PURDUM LATERAL
12.750" O.D. RECEIVER
© PURDUM POWER PLANT
CROSS SECTION
WAKULLA COUNTY, FLORIDA

**Florida Gas
Transmission
Company**

A Southern Union/ Pine-Artway

DWG. NO.

CS-A

CADD NAME:

ENVIRONMENTAL CONSTRAINTS REPORT
WETLANDS
ENDANGERED AND THREATENED SPECIES
MARCH 2010



8-INCH ST. MARKS LATERAL
PIG RECEIVER
WAKULLA COUNTY, FLORIDA

PREPARED FOR
FLORIDA GAS TRANSMISSION COMPANY

PREPARED BY:
ENVIRONMENTAL CONSULTING GROUP, INC.



150 OXFORD ROAD SUITE 130
FERN PARK, FL 32730
(407) 331-6599 (407) 331-3860 fax

POST OFFICE BOX 181518
CASSELBERRY, FL 32718-1518

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ATTACHMENTS

GENERAL LOCATION
FGT DRAWINGS
QUAD MAP
DOQQ MAP (land use, soils, wetlands)
PHOTOS
USFWS THREATENED AND ENDANGERED SPECIES TABLE
USACE PRELIMINARY JURISDICTION FORM

1. PROJECT DESCRIPTION

Florida Gas Transmission Company proposes to construct a pig receiver on the 8-inch St. Marks Lateral at the existing Sam O. Purdom Generation Station. The proposed pig receiver site is in Section 2, Township 04 South, Range 01 East, Wakulla County, Florida. This will require use of temporary and permanent workspaces in wetlands. The permanent workspace requires fill and structures for the pig receiver operation. The temporary workspace is required for construction purposes only and will be graded to original contours following construction completion.

2. PROJECT ASSESSMENT METHODOLOGY

A site inspection was conducted on March 19, 2010 to determine the presence of wetlands as defined in Chapter 62-340, F.A.C. and the U. S. Army Corps of Engineers 1987 Wetland Delineation Manual. In addition, the subject site was reviewed to determine the potential for the area being habitat for species listed as endangered or threatened by the U.S. Fish and Wildlife Service. Available information such as USGS quad map, digital orthoquads, soils maps (NRCS, SJRWMD), land use data (SJRWMD), and data from the U.S. Fish and Wildlife Service and the Florida Fish and Wildlife Conservation Commission (T&E lists, waterbird colonies, bird nesting records, and eagle nest locator) were reviewed.

Enclosed are a general location map, FGT construction drawings, a portion of a USGS quad sheet showing the project area, a DOQQ (with land use, hydric soils, NWI boundaries), color copies of photos, a USFWS T&E table for the project vicinity, and USACE Preliminary Jurisdiction Form.

3. GENERAL SITE DESCRIPTION

The project site general location is on the south side of St. Marks Refinery Road, approximately 2 miles south of the intersection of U.S. Highway 98 and State Road 363 in Wakulla County, Florida. St. Marks Refinery Road is a gated road used as an entrance to the Sam. O. Purdom power generation facility. The existing FGT pipeline easement runs along the south side of St. Marks Refinery Road to the power plant. Land use in the vicinity of the project site is a mix of industrial, commercial, and residential development with scattered forested areas. The Sam O. Purdom power generation facility is immediately east of the proposed pig receiver facility. The project area (Latitude 30°9'46.00"N, Longitude 84°12'8.00"W) is a mix of wet pine and hardwood forest.

4. PROJECT SITE DESCRIPTION

4.1 Soils

A review of the soils data (NRCS) for the proposed project workspace was conducted. A NRCS indicates that the entire project area includes Chaires Fine Sand, a hydric soil (soils associated with wetlands). The description of this soil series (Natural Resources Conservation Service) is provided below.

Chaires

This soil is deep and very deep, poorly drained and very poorly drained, moderately slow to slowly permeable sand found in flatwoods and in depressions on the Lower Coastal Plain. They formed in sandy and loamy marine sediments. Slopes range from 0 to 2 percent. The water table is within depths of 18 inches in the flatwoods for 1 to 3 months during periods of high rainfall and within depths of 20 to 40 inches for 6 months or more during most years. Depressional areas are ponded for 6 to 9 months in most years.

4.2 Uplands

The uplands occurring within the proposed workspace are along the road shoulder of St. Marks Refinery Road. The vegetation is predominantly Bahia grass and is maintained by mowing. Upland edges, as well as isolated vegetation islands within the wetlands are vegetated by saw palmetto (*Serenoa repens*), wax myrtle (*Myrica cerifera*), and Yaupon holly (*Ilex vomitoria*).

4.3 Wetlands

The St. Marks Refinery Road is flanked on the north and south sides by forested wetlands. The forested wetland north of the road is a depressional area with a ditch vegetated by numerous native wetland species. Standing water and saturated soils were observed. Native species include *Taxodium distichum*, *Typha* sp., *Sagittaria lancifolia*, *Pontederia cordata*, and *Cladium jamaicense*.

The proposed temporary and permanent workspaces are south of the St. Marks Refinery Road road-shoulder and are within a forested wetland. This wetland is hydric community consisting of a wet pine/hardwood mix. The dominant vegetation includes loblolly pine (*Pinus taeda*), swamp tupelo (*Nyssa sylvatica*), sweetgum (*Liquidambar styraciflua*), and sweet bay magnolia (*Magnolia virginiana*).

It appears that the surrounding development activities have fragmented vegetative communities and affected natural hydrological conditions in the areas along this section of the St. Marks River and the Wakulla River. Therefore, hydrological periods in this area are artificially induced in the remaining undeveloped areas. A site inspection verified that the proposed project site has a hydrological connection via a ditch to an offsite wetland identified by the USFWS NWI GIS data (PFO4/SS6C). This offsite wetland abuts the St. Marks River (WBID# 793B).

5. ENDANGERED AND THREATENED SPECIES

Attached is a table of the federally listed (USFWS) endangered and threatened species reported to occur in Wakulla County. A review of the Florida Fish and Wildlife Conservation Commission database revealed a recording of an American bald eagle nest (WK009) approximately 1.27 miles west of the proposed pig receiver site. Nest WK009 was last active in 2009. Although a bald eagle was spotted during the March 19th site visit, no nesting sites were observed in the vicinity of the proposed project workspace.

The water bird colony database did not indicate the occurrence of nesting sites within 2 miles of the project site.

The wood stork is listed by the FFWC and the USFWS as a Threatened species. Wood stork is found in freshwater and marine-estuarine forested habitats (Rodgers et al., 1996). The freshwater habitats in Florida include a monoculture of bald cypress (*Taxodium distichum*), black gum (*Nyssa biflora*), or willow (*Salix caroliniana*) to a mixture of bottomland hardwood species dominated by cypress and black gum (USFWS, 1996). Wood storks feed at natural and artificial wetlands where prey species are available and water depths are satisfactory. Most of the fish they prey upon are more than one year old. According to Coulter, et al. (1999), this indicates that wetlands with long hydroperiods are important habitat.

The eastern indigo snake, listed as a threatened species by both the U.S Fish and Wildlife Service and the FWC potentially occurs in Wakulla County. The eastern indigo snake frequents several habitat types throughout its range, including scrubby flatwoods, freshwater marshes, and human disturbed sites (USFWS, 1999). All of which occur in the project area. In addition, eastern indigo snakes have been known to exhibit strong preference and/or restriction to sandhill habitats occupied by gopher tortoise.

Although the site has a significant area of wetlands, the potential for gopher tortoise burrows exists along the road shoulder. A gopher tortoise burrow survey that was conducted on March 19, 2010 did not observe gopher tortoise burrows.

The Southeastern American Kestrel is listed by FWC as a threatened species. Kestrels of the subspecies *Falco sparverius paulus* are the only members of the species known to be permanent residents of the state of Florida and are known to breed from May through September. It is thought that the subspecies is restricted to the peninsula and rare in the panhandle (FNAI 2001). The Southeastern American Kestrel is threatened due to loss of appropriate feeding and nesting habitat. The Kestrel prefers open pine flatwoods and sandy scrub often routinely burned (FWRI).

Data from the FFWC indicates the proposed project area to be in potential habitat for The Red Cockaded Woodpecker (*Picoides borealis*). The Red Cockaded Woodpecker is listed by the FWS as an endangered species. However, the proposed project site lacks the mature longleaf pine forest most associated with the necessary habitat for this species.

6. CONCLUSIONS

The project site includes forested wetlands. Normal hydrological conditions within the subject wetlands have been affected by surrounding development. Power generating facilities located to the east and south of the subject wetland may be impeding normal sheet flow and artificially affecting the hydroperiods at the subject forested wetlands. However, based on field inspections and a review of recent imagery, it appears that a hydrological connection exists between the proposed project site and the wetlands (NWI maps) to the south and east. Therefore, the USACE and FDEP have regulatory authority at the subject wetland.

6.1 Wetlands

The proposed pig receiver facility is to be built within a forested wetland. Construction will result in 0.327 acres of temporary impact and 0.133 acres of permanent impact to the forested wetland. Wakulla County is not currently within a currently authorized mitigation bank service area. For this reason onsite mitigation is proposed (see below).

6.2 Endangered and Threatened Species

The project site consists of forested wetlands. Due to insufficient habitat within the project site, the likelihood of the presence of any species occurring on the Wakulla County list of threatened and endangered species is very low. Therefore, the proposed wetland impacts at the project site will result in no net loss of potential habitat. Woodstork or red cockaded woodpecker habitat does not occur within the proposed project limits. No bald eagles or bald eagle nests were observed or are known to occur within a 1 mile radius of the project site. The permanent wetland habitat impacts will be offset by the purchase of mitigation bank credits. For these reasons, it is likely that this project will have "no effect" concerning threatened and endangered species.

6.3 MITIGATION PLAN

The permanent and temporary wetland impacts are proposed to be offset by restoring the temporary impact areas to original grade, allowing natural recruitment of native wetland vegetation, planting wetland species, and enhancing habitat diversity by creating a shallow pond within the forested system. After construction of the piggings facility, the temporary impact areas will be restored by grading to the original contours. Note that the trees in the temporary impact areas will be cut near the surface; thereby, leaving the stump for regrowth by the hardwood species and for soil stabilization. It is anticipated that herbaceous wetland cover will quickly become established over the area of temporary impacts and it is anticipated that wetland tree species will reestablish via natural recruitment over time within the area. In order to facilitate the vegetative cover and improve plant diversity, the area be planted with native herbaceous and shrub wetland species. In addition, a shallow pond will be excavated (2 feet below the current wetland elevation) and planted with herbaceous wetland species to provide habitat that is currently lacking and to enhance wetland diversity. The following species are proposed for planting.

Location:	Scientific Name	Common Name	Plant #
Herbaceous/Shrub (3 Foot Centers):			
0.246 acres	<i>Osmunda cinnamomea</i>	Cinnamon fern	250
	<i>Woodwardia virginica</i>	Chain fern	190
	<i>Peltandra virginica</i>	Arrow arum	250
	<i>Lyonia lucida</i>	Fetterbush	250
	<i>Ilex cassine</i>	Dahoon holly	250
Shallow Pond: (2 Foot Centers)			
0.113 acres	<i>Pontederia cordata</i>	Pickereel weed	300
	<i>Sagittaria lancifolia</i>	Bulltongue arrowhead	300
	<i>Sagittaria latifolia</i>	Duck potato	300
	<i>Orontium aquaticum</i>	Goldenclub	300

6.4 MONITORING PLAN

Monitoring will be conducted semiannually and annually the first year and annually the second and third years. Semiannual monitoring will be conducted in March/April. Annual monitoring will be conducted in September/October. The monitoring reports will be conducted as follows:

Semiannual monitoring will be conducted qualitatively and consist of:

1. Photos at permanent stations documenting conditions
2. An assessment of vegetative conditions
3. Observations of wildlife use
4. Written report describing observations, restoration schedule, corrective measures taken, and recommendations.

Annual monitoring will be conducted quantitatively and consist of:

1. A summary of information included in the Semiannual Monitoring and previous Annual Monitoring (if applicable)
2. Photos at permanent stations documenting conditions
3. Elongated quadrat sampling or random 1-meter plot sampling to determine total percentage of cover by wetland species and percentage of cover by herbaceous species (including non-nuisance and nuisance species)
4. Data and summary tables
5. Conclusions and recommendations

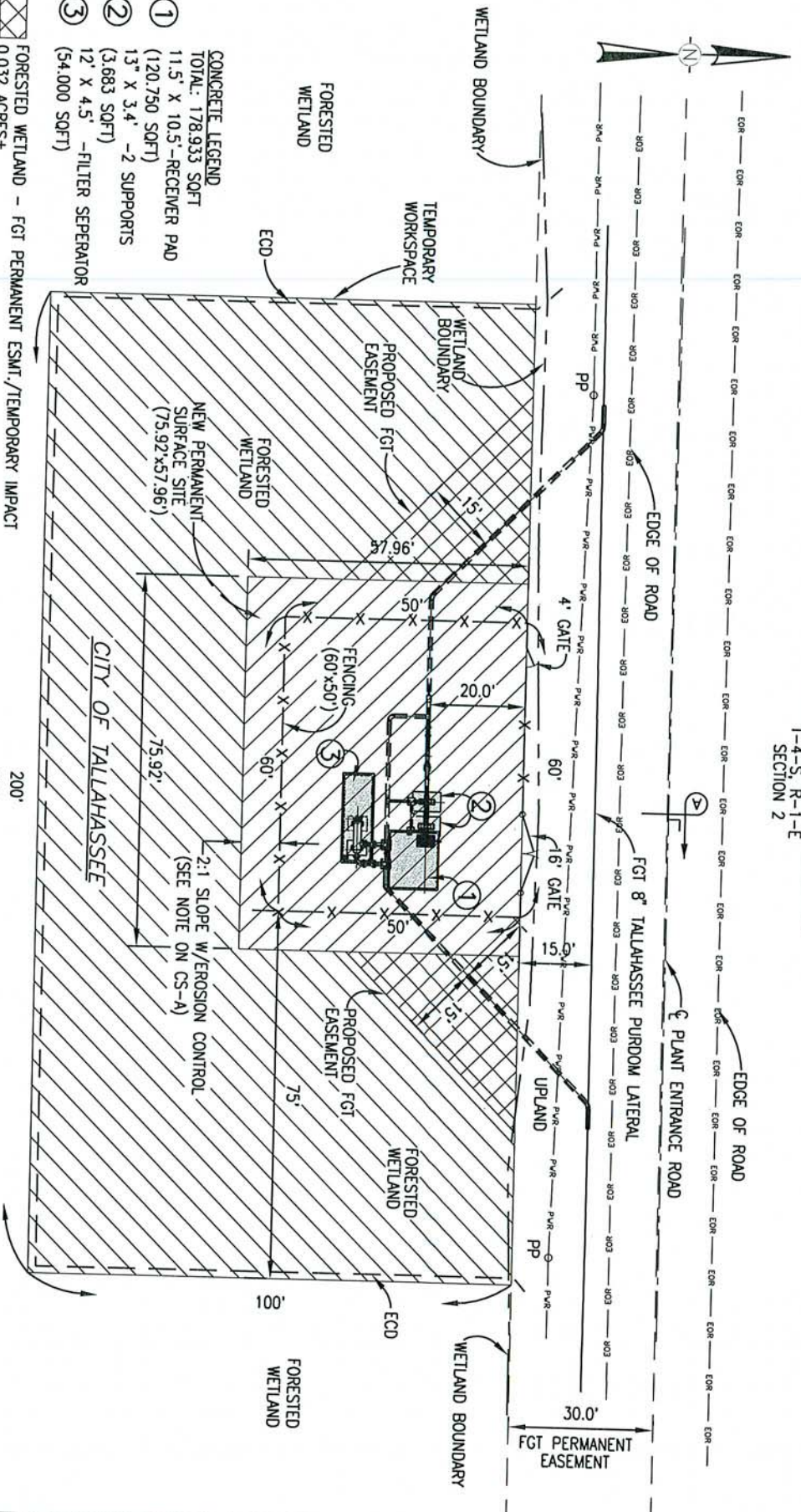
Success Criteria

The workspace restoration area will be deemed successful based on 1) a 90% cover by planted and recruitment wetland species (Chapter 17-340, F.A.C. and USACE wetland species) and 2) nuisance and exotic species will not exceed 5 percent.

7. REFERENCES

- Coulter, M. C., J. A. Rodgers, J. C. Ogden, and F. C. Depkin. 1999. Wood Stork (*Mycteria americana*), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America Online: <http://bna.birds.cornell.edu/bna/species/409>
- Florida Association of Environmental Scientists, 2006. Fourth Edition. Hydric Soils of Florida Handbook
- Florida Department of Transportation. 1999. Florida Land Use, Cover and Forms Classification System. Handbook. Florida Department of Transportation, Surveying and Mapping Office, Geographic Mapping Section. Tallahassee, Florida.
- Florida Natural Areas Inventory, 2002. Field Guide to Rare Animals of Florida. www.fnai.org/FieldGuide/pdf/Falco_sparverius_paulus.pdf.
- Rodgers, J. A., Jr., S. T. Schwikert and A. Shapiro-Wenner. 1996. Nesting habitat of Wood Storks in north and central Florida, USA. *Colon. Waterbirds* 19: 1–21.
- U.S. Fish and Wildlife Service. 1996. Revised recovery plan for the U.S. breeding population of the wood stork. U.S. Fish and Wildlife Service, Atlanta, GA.
- U.S. Fish and Wildlife Service, 1999. Eastern Indigo Snake (*Drymarchon corais couperi*): Multispecies Recovery Plan for South Florida. U.S. Fish and Wildlife Service, Atlanta, GA; Retrieved from www.fws.gov.

WAKULLA COUNTY, FLORIDA
T-4-S, R-1-E
SECTION 2



- CONCRETE LEGEND**
TOTAL: 178,933 SQFT
11.5' X 10.5'-RECEIVER PAD
(120,750 SQFT)
① 13" X 3.4' - 2 SUPPORTS
(3,683 SQFT)
② 12' X 4.5' - FILTER SEPERATOR
(54,000 SQFT)

- FORESTED WETLAND - FGT PERMANENT ESMT./TEMPORARY IMPACT
0.032 ACRES±
FORESTED WETLAND - TEMPORARY WORKSPACE
0.327 ACRES±
FORESTED WETLAND - FGT RECEIVER SITE/PERMANENT IMPACT
0.101 ACRES±

NOTE:

- ECD - EROSION CONTROL DEVICE
- TURBIDITY OUTSIDE OF THE APPROVED WORK AREAS TO BE CONTROLLED USING APPROPRIATE BMP'S AS PER PERMIT AND AS DEPICTED ON DRAWING.
- WETLAND DELINEATION BY ENVIRONMENTAL CONSULTING GROUP, INC.
- SURVEY BY UNIVERSAL ENSCO
- DRAWING FOR ENVIRONMENTAL PERMITTING ONLY IN ACCORDANCE WITH CHAPTER 62-340 FAC & USACE 1987 WETLAND DELINEATION MANUAL.
- AREA IN TWS WILL RECOLONIZE THROUGH NATURAL RECRUITMENT AND SPECIFIC PLANTINGS DETAILED IN MITIGATION PLAN.

CADDIS NAME:

W.O. 722323R		2010 Construction	
Dr. By	Date	Scale	App. Date
JML	3/10	1"=30'	
Dwg. Ckd. By	Date	App. By	Date
Pre'y.			
Bid			
Const.			

8" TALLAHASSEE PURDOM LATERAL
12.750" O.D. RECEIVER
@ PURDOM POWER PLANT
WETLAND PERMIT
WAKULLA COUNTY, FLORIDA

Florida Gas Transmission Company

A Southern Union Gas Company

DWG. NO.

P8-100

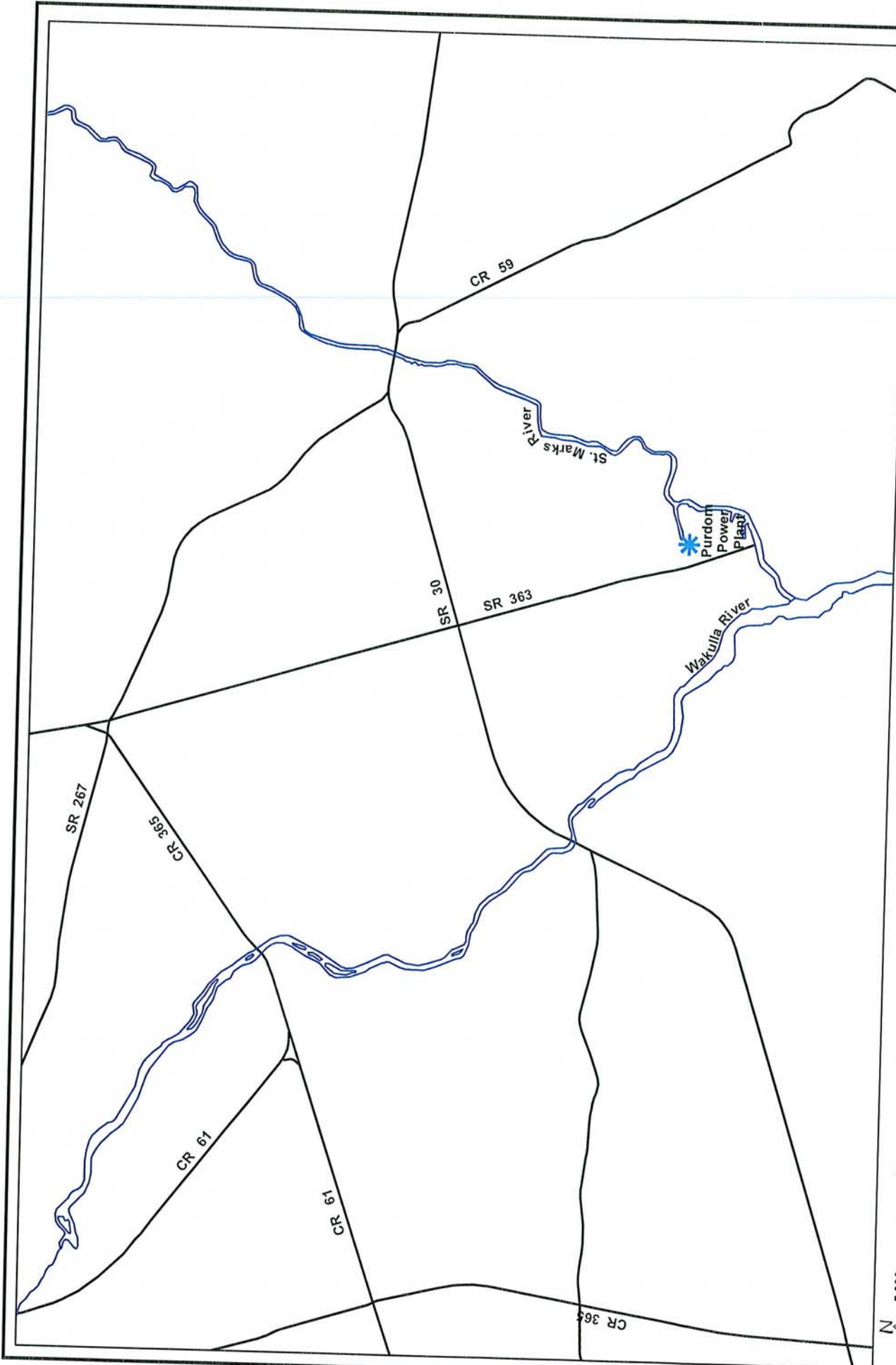
T-4-S, R-1-E
SECTION 2



PLANTINGS DETAILED IN MITIGATION PLAN.

8" TALLAHASSEE PURDOM LATERAL
12.750" O.D. RECEIVER
@ PURDOM POWER PLANT
MITIGATION PLAN
WAKULLA COUNTY, FLORIDA

P8-101

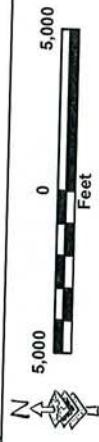


Projection: State Plane, Florida North
Datum: NAD83; Units: Feet
Data: FGDL

Florida Gas Transmission Company
8-Inch St. Marks Lateral
Purdom Pig Receiver
General Location Map
Wakulla County, Florida

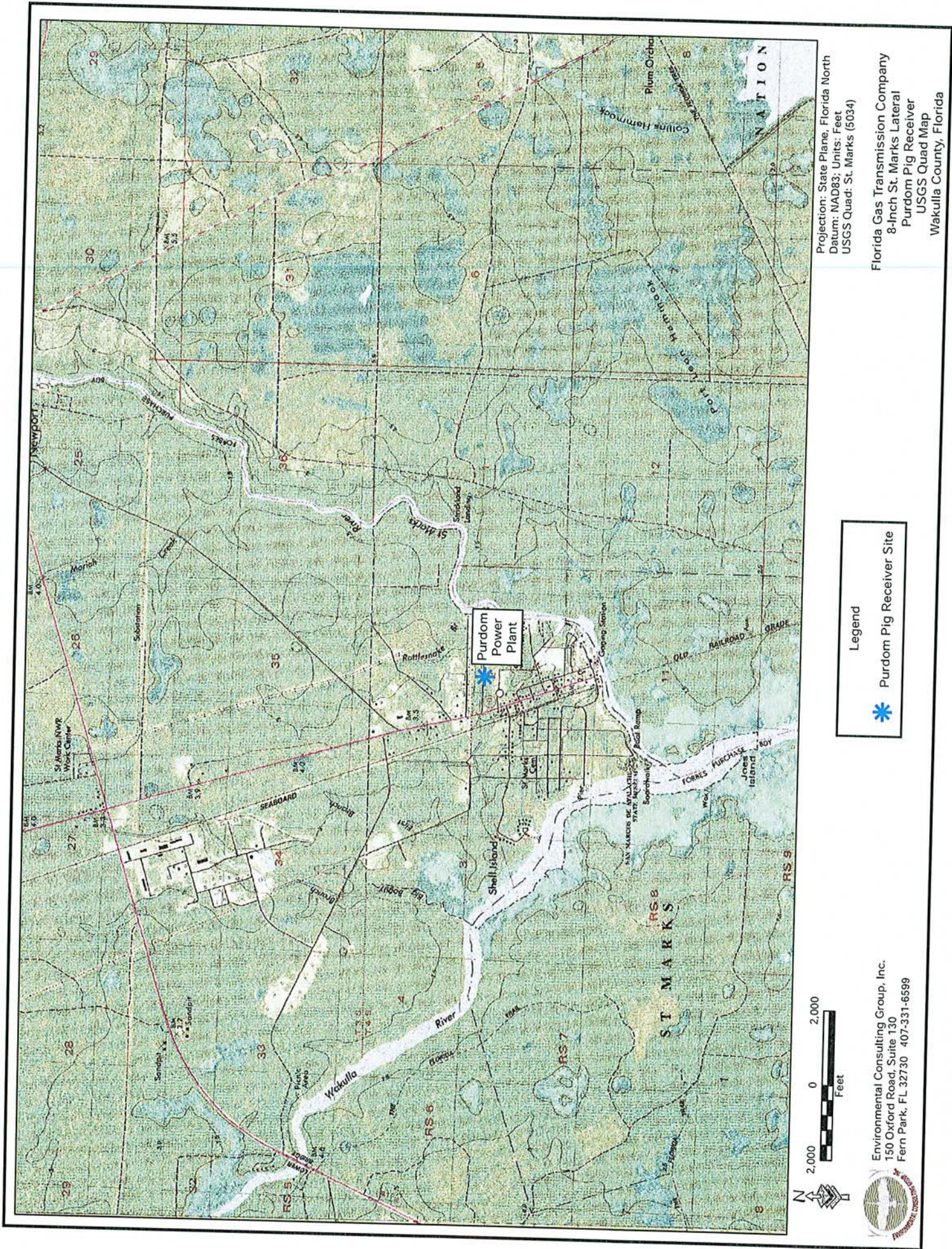
Legend

 Purdom Pig Receiver Site



Environmental Consulting Group, Inc.
150 Oxford Road, Suite 130
Fern Park, FL 32730 407-331-6599





Projection: State Plane, Florida North
Datum: NAD83; Units: Feet
USGS Quad: St. Marks (5034)

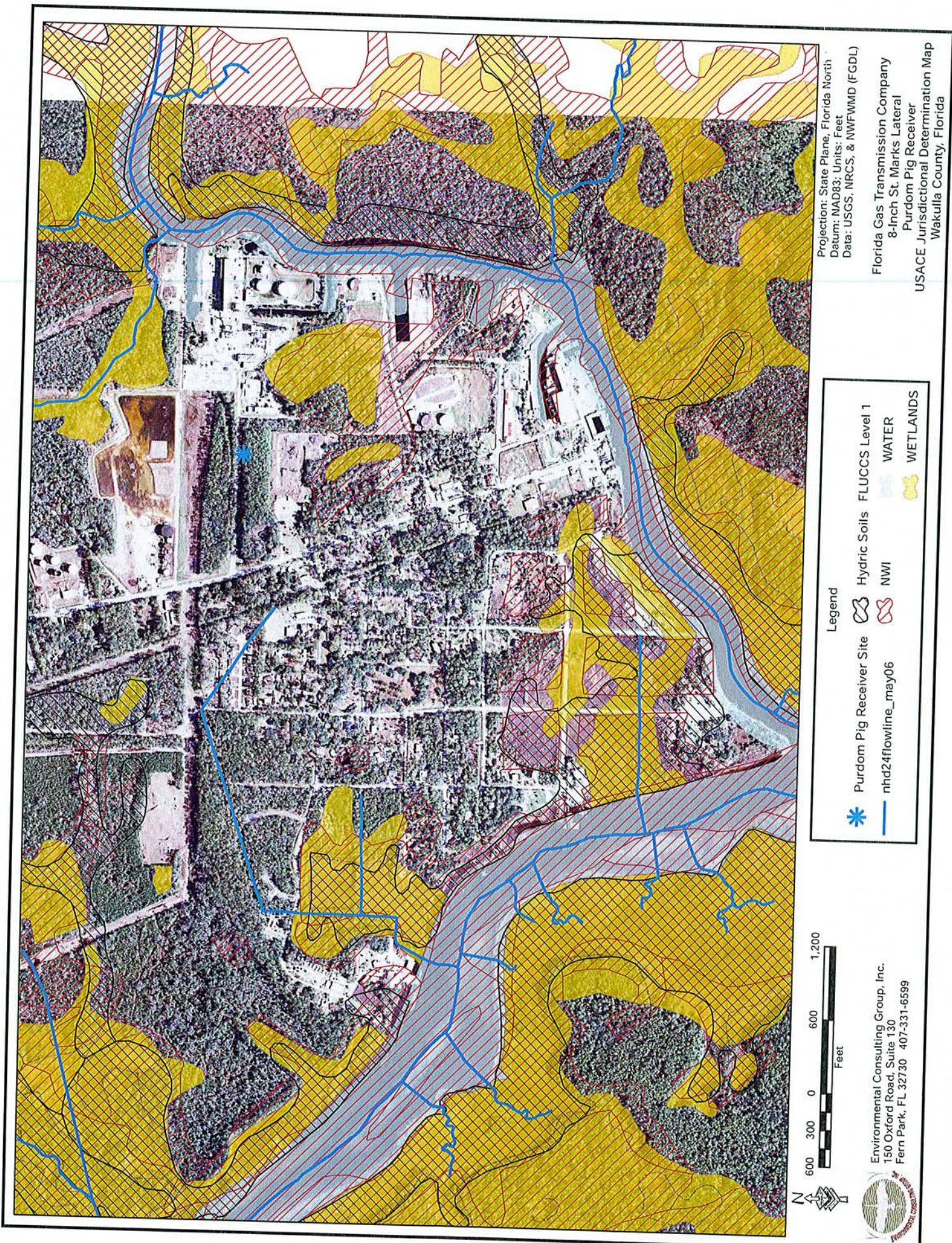
Florida Gas Transmission Company
8-Inch St. Marks Lateral
Purdom Pig Receiver
USGS Quad Map
Wakulla County, Florida

Legend

* Purdom Pig Receiver Site

Environmental Consulting Group, Inc.
150 Oxford Road, Suite 130
Fern Park, FL 32730 407-331-6599





Projection: State Plane, Florida North
Datum: NAD83; Units: Feet
Data: USGS, NRCS, & NFWMD (FGDL)

Florida Gas Transmission Company
8-Inch St. Marks Lateral
Purdom Pig Receiver
USACE Jurisdictional Determination Map
Wakulla County, Florida

Legend

Purdom Pig Receiver Site

nhd24flowline_may06

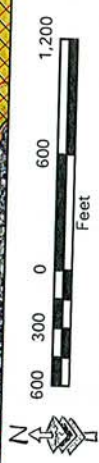
Hydric Soils

FLUCCS Level 1

WATER

NWI

WETLANDS




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150 Oxford Road, Suite 130
Fern Park, FL 32730 407-331-6599

**FLORIDA GAS TRANSMISSION
8-INCH ST. MARKS LATERAL – PIG RECEIVER
WAKULLA COUNTY, FLORIDA**



**NORTHEAST CORNER OF PROPOSED PIG RECEIVER (PERMANENT EASEMENT)
FACING SOUTHWEST**



**NORTHWEST CORNER OF PROPOSED PIG RECEIVER (PERMANENT EASEMENT)
FACING SOUTHEAST**

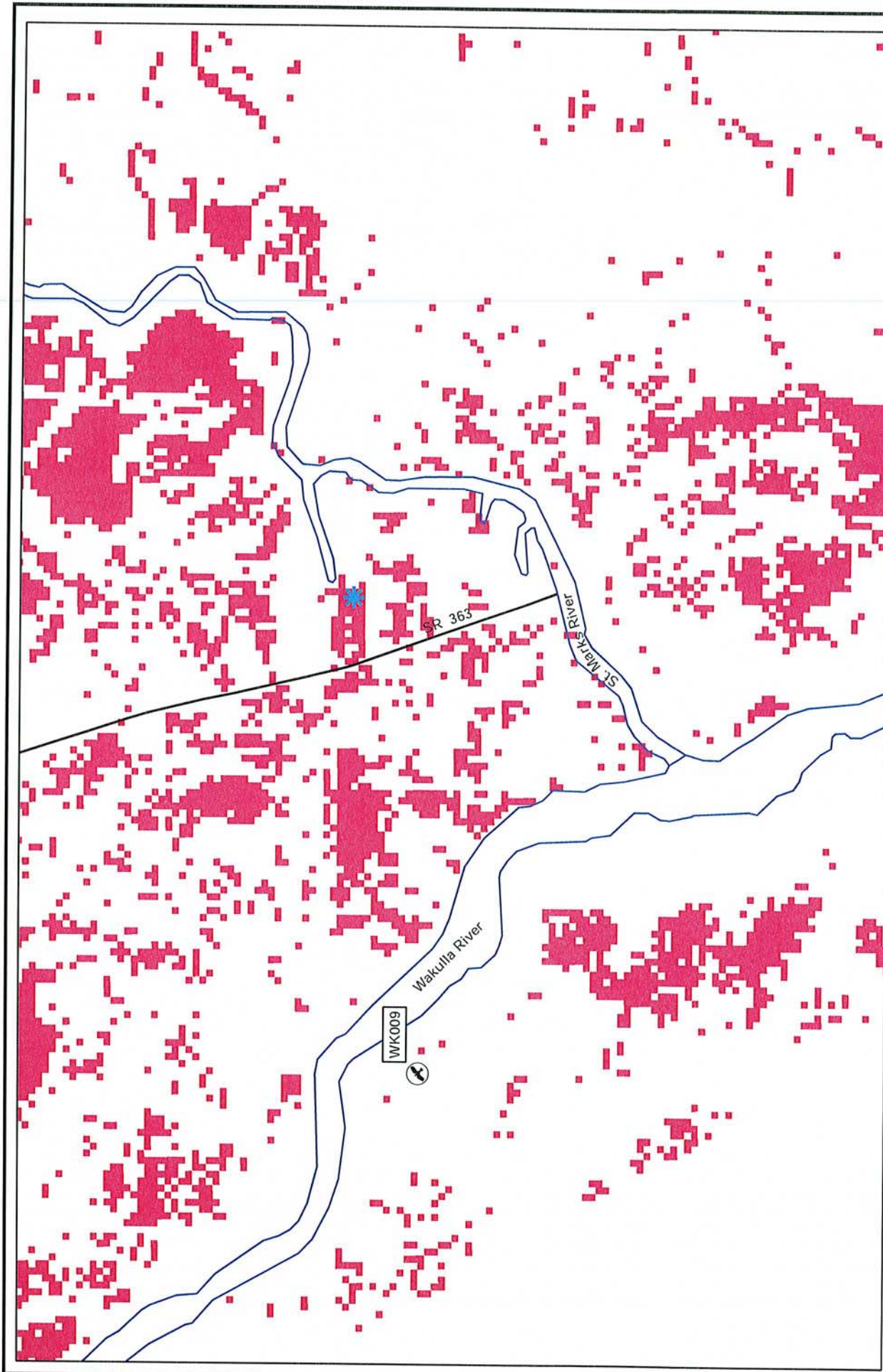
**FLORIDA GAS TRANSMISSION
8-INCH ST. MARKS LATERAL – PIG RECEIVER
WAKULLA COUNTY, FLORIDA**



AREA OF PROPOSED PIG RECEIVER (PERMANENT EASEMENT), FACING SOUTH



**HYDROLOGAL & VEGETATIVE CONNECTION TO OFFSITE WETLAND
(OUTSIDE OF PROPOSED WORKSPACE), FACING SOUTH**

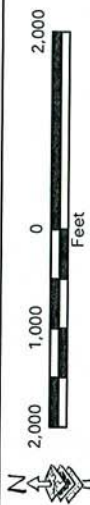


Projection: State Plane, Florida North
Datum: NAD83; Units: Feet
Data: FFWC

Florida Gas Transmission Company
8-Inch St. Marks Lateral
Purdum Pig Receiver
T & E Map
Wakulla County, Florida

Legend

	Purdum Pig Receiver Site
	Purdum Pig Receiver
	Potential RCW Habitat



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Fern Park, FL 32730 407-331-6599



STATE AND FEDERAL THREATENED, ENDANGERED, AND OTHER SPECIES OF CONCERN
 LIKELY TO OCCUR IN WAKULLA COUNTY FLORIDA
 Compiled by U.S. Fish and Wildlife Service July 2009

Common Name	Scientific Name	Status State	Status FWS	Natural Communities
FISH:				
Gulf sturgeon	<i>Acipenser oxyrinchus desotoi</i>	SSC	T CH	ESTUARINE: various MARINE: various habitats RIVERINE: alluvial and blackwater streams
Suwannee bass	<i>Micropterus notius</i>	SSC		RIVERINE: alluvial stream, blackwater stream, spring-run stream
AMPHIBIANS & REPTILES:				
Frosted flatwoods salamander	<i>Ambystoma cingulatum</i>	SSC	T CH	PALUSTRINE: wet flatwoods, dome swamp, basin swamp, ruderal TERRESTRIAL: mesic flatwoods (reproduces in ephemeral wetlands within this community)
Eastern indigo snake	<i>Drymarchon corais couperi</i>	T	T	ESTUARINE: tidal swamp PALUSTRINE: hydric hammock, wet flatwoods TERRESTRIAL: mesic flatwoods, upland pine forest, sandhills, scrub, scrubby flatwoods, rockland hammock, ruderal
Hawksbill turtle	<i>Eretmochelys imbricata imbricata</i>	E	E	MARINE: open water; no nesting
Gopher tortoise	<i>Gopherus polyphemus</i>	SSC	ce	TERRESTRIAL: sandhills, scrub, scrubby flatwoods, xeric hammocks, coastal strand, ruderal
Striped Newt	<i>Notophthalmus perstriatus</i>	SSC	ce	TERRESTRIAL: sandhill, scrub, scrubby flatwoods, xeric hammock (reproduces in ephemeral wetlands within these communities)
Alligator snapping turtle	<i>Macrolemys temminckii</i>	SSC	ce	ESTUARINE: tidal marsh LACUSTRINE: river floodplain lake, swamp lake RIVERINE: alluvial stream, blackwater stream
Gulf salt marsh snake	<i>Nerodia clarkii clarkii</i>		ce	ESTUARINE: tidal marsh, tidal swamp MARINE: tidal marsh, tidal swamp
Florida pine snake	<i>Pituophis melanoleucus mugitus</i>	SSC	ce	LACUSTRINE: ruderal, sandhill upland lake TERRESTRIAL: sandhill, scrubby flatwoods, xeric hammock, ruderal
Suwannee cooter	<i>Pseudemys concinna suwanniensis</i>	SSC		RIVERINE: alluvial stream, blackwater stream, spring-fed stream
Gopher frog	<i>Rana capito</i>	SSC	ce	TERRESTRIAL: sandhill, scrub, scrubby flatwoods, xeric hammock (reproduces in ephemeral wetlands within these communities)
BIRDS:				
Bachman's sparrow	<i>Aimophila aestivalis</i>		ce	TERRESTRIAL: various, ruderal
Wakulla seaside sparrow	<i>Ammodramus maritimus junciculus</i>	SSC	ce	ESTUARINE: tidal marsh MARINE: tidal marsh
Limpkin	<i>Aramus guarauna</i>	SSC		LACUSTRINE: various PALUSTRINE: various RIVERINE: various

E=endangered, T=threatened, P=proposed, C=candidate, s/a=similar appearance, SSC=species of special concern, ce=consideration encouraged, CH=Critical Habitat, BGEPA=Bald and Golden eagle protection act

This is not an exhaustive list of where species do occur, but a guide to indicate areas that might require surveys if appropriate habitat exists. Please contact Florida Natural Areas Inventory (850-224-8207) for additional species location information.

STATE AND FEDERAL THREATENED, ENDANGERED, AND OTHER SPECIES OF CONCERN
 LIKELY TO OCCUR IN WAKULLA COUNTY FLORIDA
 Compiled by U.S. Fish and Wildlife Service July 2009

Common Name	Scientific Name	Status State	Status FWS	Natural Communities
Red knot	<i>Calidris canutus</i>		C	ESTUARINE: exposed unconsolidated substrate MARINE: exposed unconsolidated substrate TERRESTRIAL: dunes, sandy beaches, and inlet areas. Mostly wintering and migrants.
Piping plover	<i>Charadrius melodus</i>	T	T CH	ESTUARINE: exposed unconsolidated substrate MARINE: exposed unconsolidated substrate TERRESTRIAL: dunes, sandy beaches, and inlet areas. Mostly wintering and migrants.
Marian's marsh wren	<i>Cistothorus palustris mianae</i>	SSC		ESTUARINE: tidal marsh MARINE: tidal marsh
Little blue heron	<i>Egretta caerulea</i>	SSC		ESTUARINE: marshes, shoreline PALUSTRINE: floodplains, swamps RIVERINE: shoreline
Reddish egret	<i>Egretta rufescens</i>	SSC	ce	ESTUARINE: tidal swamp, depression marsh, bog, marl prairie, wet prairie LACUSTRINE: flatwoods/prairie lake, marsh lake MARINE: tidal swamp
Snowy egret	<i>Egretta thula</i>	SSC		ESTUARINE: marshes, tidal swamps, shoreline LACUSTRINE: lake edges PALUSTRINE: swamp, floodplain, ruderal RIVERINE: shoreline
Tricolored heron	<i>Egretta tricolor</i>	SSC		ESTUARINE: marshes, tidal swamps, shoreline LACUSTRINE: lake edges PALUSTRINE: swamp, floodplain, ruderal RIVERINE: shoreline
Arctic peregrine falcon	<i>Falco peregrinus tundrius</i>	E	ce	ESTUARINE: winters along coasts LACUSTRINE: various PALUSTRINE: various TERRESTRIAL: various, ruderal
Southeastern kestrel	<i>Falco sparverius paulus</i>	T	ce	ESTUARINE: various habitats PALUSTRINE: various habitats TERRESTRIAL: open pine forests, clearings, ruderal, various
American oystercatcher	<i>Haematopus palliatus</i>	SSC		ESTUARINE: exposed unconsolidated substrate, exposed mollusk reef MARINE: exposed unconsolidated substrate, exposed mollusk reef TERRESTRIAL: beaches, ruderal areas
Bald eagle	<i>Haliaeetus leucocephalus</i>		BGEPA	ESTUARINE: marsh edges, tidal swamp, open water LACUSTRINE: swamp lakes, edges PALUSTRINE: swamp, floodplain RIVERINE: shoreline, open water TERRESTRIAL: pine and hardwood forests, clearings

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 LIKELY TO OCCUR IN WAKULLA COUNTY FLORIDA
 Compiled by U.S. Fish and Wildlife Service July 2009

Common Name	Scientific Name	Status State	Status FWS	Natural Communities
Wood stork	<i>Mycteria americana</i>	E	E	ESTUARINE: marshes LACUSTRINE: floodplain lakes, marshes (feeding), various PALUSTRINE: marshes, swamps, various
Brown pelican	<i>Pelecanus occidentalis</i>	SSC		ESTUARINE: islands for nesting, open water MARINE: open water
Red-cockaded woodpecker	<i>Picoides borealis</i>	SSC	E	TERRESTRIAL: mature pine forests
Black skimmer	<i>Rynchops niger</i>	SSC		ESTUARINE: various LACUSTRINE: various RIVERINE: various TERRESTRIAL: ocean beaches, beach dune, ruderal. Nests common on rooftops.
Least tern	<i>Sterna antillarum</i>	T		ESTUARINE: various LACUSTRINE: various RIVERINE: various TERRESTRIAL: beach dune, ruderal. Nests common on rooftops.
MAMMALS:				
Round-tailed muskrat	<i>Neofiber alleni</i>		ce	ESTUARINE: tidal marsh LACUSTRINE: marsh lake, flatwoods/prairie lake PALUSTRINE: floodplain marsh, swale, depression marsh, basin marsh
Southeastern big-eared bat	<i>Plecotus rafinesquii</i>		ce	PALUSTRINE: various, floodplains TERRESTRIAL: pine and hardwood forests, ruderal, various
West Indian manatee	<i>Trichechus manatus latirostris</i>	E	E	ESTUARINE: submerged vegetation, open water MARINE: open water, submerged vegetation RIVERINE: alluvial stream, blackwater stream, spring-run stream
Florida black bear	<i>Ursus americanus floridanus</i>	T	ce	PALUSTRINE: titi swamps, floodplains TERRESTRIAL: pine and hardwood forests
INVERTEBRATES:				
Purple bankclimber (mussel)	<i>Elliptioideus sloatianus</i>		T CH	RIVERINE: small to large rivers in slow to moderate currents over sand, sand mixed with mud, or gravel substrates (Panhandle watersheds: Apalachicola, Ochlockonee)
Sculptured pigtoe (mussel)	<i>Quadrula infucata</i>		ce	RIVERINE: small streams to large rivers in sandy, muddy sand, or fine gravel substrates, pools, and rocky areas with swift current, often under debris (Panhandle watersheds: Apalachicola, Chipola)
Downy rainbow (mussel)	<i>Villosa villosa</i>		ce	RIVERINE: small streams to large rivers in sand or muddy sand substrates (Panhandle watersheds: Apalachicola, Chipola, Escambia, Choctawhatchee, Ochlockonee, Suwannee)

E=endangered, T=threatened, P=proposed, C=candidate, s/a=similar appearance, SSC=species of special concern, ce=consideration encouraged, CH=Critical Habitat, BGEPA=Bald and Golden eagle protection act

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 LIKELY TO OCCUR IN WAKULLA COUNTY FLORIDA
 Compiled by U.S. Fish and Wildlife Service July 2009

Common Name	Scientific Name	Status State	Status FWS	Natural Communities
PLANTS:				
Southern milkweed	<i>Asclepias viridula</i>	T	ce	PALUSTRINE: wet prairie, seepage slope edges RIVERINE: seepage stream banks TERRESTRIAL: mesic flatwoods, drainage ditches
Scare-weed	<i>Baptisia simplicifolia</i>	T	ce	TERRESTRIAL: mesic flatwoods, sandhill; on disturbed sites
Flyr's brickell-bush	<i>Brickellia cordifolia</i>	E	ce	TERRESTRIAL: upland hardwood forest, near streams
Buckthorn	<i>Bumelia lycioides</i>	E		PALUSTRINE: bottomland forest, dome swamp, floodplain forest TERRESTRIAL: upland hardwood forest
Chapman's sedge	<i>Carex chapmanii</i>		ce	PALUSTRINE: hydric hammock, floodplain forest TERRESTRIAL: slope forest
Washington thorn	<i>Crataegus phaenopyrum</i>	E		PALUSTRINE: basin swamp, basin marsh, edges of wet areas
Wiregrass gentian	<i>Gentiana pennelliana</i>	E	ce	PALUSTRINE: seepage slope, wet prairie, roadside ditches TERRESTRIAL: mesic flatwoods, planted slash pine
Godfrey's spiderlily	<i>Hymenocallis godfreyi</i>		ce	ESTUARINE: Brackish Marshes
Florida anise	<i>Illicium floridanum</i>	T		PALUSTRINE: floodplain forest, baygall RIVERINE: seepage stream bank TERRESTRIAL: slope forest, seepage slope
Corkwood	<i>Leitneria floridana</i>	T		ESTUARINE: tidal marsh PALUSTRINE: freshwater tidal swamp, hydric hammock
Godfrey's blazing star	<i>Liatris provincialis</i>	E	ce	TERRESTRIAL: sandhill, scrub, coastal grassland; disturbed areas
Southern red lily	<i>Lilium catesbaei</i>	T		PALUSTRINE: wet prairie, wet flatwoods, seepage slope TERRESTRIAL: mesic flatwoods, seepage slope; usually with grasses
Ashe's magnolia	<i>Magnolia ashei</i>	E		TERRESTRIAL: slope and upland hardwood forest, ravines
Green adder's-mouth	<i>Malaxis unifolia</i>	E		PALUSTRINE: floodplain forest TERRESTRIAL: slope forest, upland mixed forest
Godfrey's (violet) butterwort	<i>Pinguicula ionantha</i>	E	T	PALUSTRINE: wet flatwoods, wet prairie, bog; in shallow water RIVERINE: seepage slope; in shallow water. Also, roadside ditches and similar habitat.
Yellow butterwort	<i>Pinguicula lutea</i>	T		PALUSTRINE: flatwoods, bogs
Bent golden aster	<i>Pityopsis flexuosa</i>	E	ce	TERRESTRIAL: sandhill, upland pine forest, ruderal
Yellow fringeless orchid	<i>Platanthera integra</i>	E	ce	PALUSTRINE: wet prairie, seepage slope TERRESTRIAL: mesic flatwoods

E=endangered, T=threatened, P=proposed, C=candidate, s/a=similar appearance, SSC=species of special concern, ce=consideration encouraged, CH=Critical Habitat, BGEPA=Bald and Golden eagle protection act

This is not an exhaustive list of where species do occur, but a guide to indicate areas that might require surveys if appropriate habitat exists. Please contact Florida Natural Areas Inventory (850-224-8207) for additional species location information.

STATE AND FEDERAL THREATENED, ENDANGERED, AND OTHER SPECIES OF CONCERN
 LIKELY TO OCCUR IN WAKULLA COUNTY FLORIDA
 Compiled by U.S. Fish and Wildlife Service July 2009

Common Name	Scientific Name	Status State	Status FWS	Natural Communities
Snowy orchid	<i>Platanthera nivea</i>	T		PALUSTRINE: bogs
Large-leaved jointweed	<i>Polygonella macrophylla</i>	T	ce	TERRESTRIAL: scrub, sand pine/oak scrub ridges
Wild coco	<i>Pteroglossaspis ecristata</i>	T	ce	TERRESTRIAL: pine rockland, upland hardwood forest, scrubby flatwoods, mesic flatwoods; on moist sand
Hooded pitcher plant	<i>Sarracenia minor</i>	T		PALUSTRINE: wet flatwoods, wet prairie, seepage slope
Parrot pitcher plant	<i>Sarracenia psittacina</i>	T		PALUSTRINE: wet flatwoods, wet prairie, seepage slope

E=endangered, T=threatened, P=proposed, C=candidate, s/a=similar appearance, SSC=species of special concern,
 ce=consideration encouraged, CH=Critical Habitat, BGEPA=Bald and Golden eagle protection act

This is not an exhaustive list of where species do occur, but a guide to indicate areas that might require surveys if appropriate habitat exists. Please contact Florida Natural Areas Inventory (850-224-8207) for additional species location information.



FLORIDA DEPARTMENT OF STATE

Dawn K. Roberts

Interim Secretary of State

DIVISION OF HISTORICAL RESOURCES

Mr. Sean Nash
HRA Gray & Pape, LLC
1428 West Alabama Street
Houston, Texas 77006

July 6, 2010

Re: DHR Project File No.: 2010-02620 / Received by DHR: June 2, 2010
*Intensive Archaeological Survey of 2.3-Acre Pig Launcher Station in Leon County and
2.9-Acre Pig Receiver Station in Wakulla County, Florida for Florida Gas Transmission
Company*

Dear Mr. Nash:

Our office received and reviewed the above referenced survey report in accordance with Section 106 of the *National Historic Preservation Act of 1966* (Public Law 89-665), as amended in 1992, and 36 C.F.R., *Part 800: Protection of Historic Properties*, and Chapter 267, *Florida Statutes*, for assessment of possible adverse impact to cultural resources (any prehistoric or historic district, site, building, structure, or object) listed, or eligible for listing, in the National Register of Historic Places (NRHP).

In March 2010, HRA Gray & Pape (HRA) conducted an archaeological and historical Phase I survey of the proposed pig launcher and receiver stations on behalf of Florida Gas Transmission Company. HRA identified no cultural resources within the project areas during the investigation. HRA did not relocate previously recorded archaeological site 8LE2075, confirming that it was an archaeological occurrence.

HRA determined that the proposed undertaking will have no effect on cultural resources listed, or eligible for listing, on the NRHP within the project areas. HRA recommends no further investigation of the parcels.

Based on the information provided, our office concurs with these determinations and finds the submitted report complete and sufficient in accordance with Chapter 1A-46, *Florida Administrative Code*.

However, please note that for future investigations in Florida, shovel tests should be fifty centimeters square. Also, please include a discussion of the specific history of the project tracts in future reports.

500 S. Bronough Street • Tallahassee, FL 32399-0250 • <http://www.flheritage.com>

☐ Director's Office
850.245.6300 • FAX: 245.6436

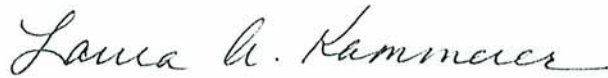
☐ Archaeological Research
850.245.6444 • FAX: 245.6452

☒ Historic Preservation
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Mr. Nash
July 6, 2010
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For any questions concerning our comments, please contact Rudy Westerman, Historic Preservationist, by electronic mail at rjwesterman@dos.state.fl.us, or by phone at 850.245.6333. We appreciate your continued interest in protecting Florida's historic properties.

Sincerely,

A handwritten signature in cursive script that reads "Laura A. Kammerer".

Laura A. Kammerer
Deputy State Historic Preservation Officer
For Review and Compliance