



December 29, 2011

L-2011-567
10 CFR 50.4
EPP 3.2.4

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Re: St. Lucie Units 1 and 2
Docket Nos. 50-335 and 50-389
Environmental Protection Plan Report
Proposed Revision to IWW Permit No. FL0002208

Pursuant to Section 3.2.4 of the St. Lucie Environmental Protection Plan, Florida Power & Light Company (FPL) is hereby providing the enclosed copy of the proposed revision to the Industrial Wastewater Facility Permit (Permit Number FL0002208) at the same time that it is being submitted to the State of Florida Department of Environmental Protection.

Please contact Vince Munné (772) 263-2847 should you have any questions on this matter.

Sincerely,

Eric S. Katzman
Licensing Manager
St. Lucie Plant

ESK/kdr

Enclosure

A001
NRR



December 29, 2011

Marc Harris, P.E.
Florida Dept. of Environmental Protection
Industrial Wastewater Section
2600 Blair Stone Road, MS 3545
Tallahassee, Florida 32399-2400

CERTIFIED MAIL
RETURN RECEIPT REQUESTED
7006 3450 0003 0174 4547

RE: Florida Power & Light Company
St. Lucie Power Plant Units 1 and 2
IWW Permit No. FL0002208
Request for Minor Revision to Re-establish Internal Outfall I-06A

Dear Mr. Harris

Attached please find the following documents to support the subject request for a minor revision to the Florida Power & Light Company (FPL) St. Lucie Power Plant Units 1 and 2 State of Florida Industrial Wastewater (IWW) Permit No. FL0002208.

- 1) Justification for Re-establishing Internal Outfall I-06A (Enclosure 1)
- 2) Four (4) signed, sealed copies of FDEP Form 62-620.910(9), Application for a Minor Revision to a Wastewater Facility or Activity Permit (Enclosure 2)
- 3) Maps depicting location of outfall (Enclosure 3)
- 4) Letter from the St. Lucie County Mosquito Control District dated November 18, 2011, RE: Impoundment 8G Culvert Installation (Enclosure 4)
- 5) An FPL Check payable to the Florida Department of Environmental Protection for the \$250.00 application fee (Enclosure 5)

If you have any questions or need additional information on this matter, please contact Vince Munné at (772) 467-7453.

Sincerely,

A handwritten signature in black ink, appearing to read 'Richard L. Anderson', with a long horizontal flourish extending to the right.
Richard L. Anderson
Site Vice President
St. Lucie Plant

VPPSL062

Enclosures

Enclosure 1

Justification for Re-establishing Internal Outfall I-06A

(2 pages)

Justification for Re-establishing Internal Outfall I-06A

Florida Power & Light Company (FPL) requests that the Florida Department of Environmental Protection (FDEP) consider a request to re-establish former St. Lucie Power Plant Internal Outfall I-06A to the Site's Industrial Wastewater Permit No. FL0002208 (NPDES) as a minor permit modification.

A review of historic St. Lucie NPDES permits has identified that over the years several of the approved internal outfalls have been eliminated, re-assigned, and or re-established. Based on requests from the St. Lucie County Mosquito Control Department to modify a small portion of St. Lucie Site drainage, we believe that it is appropriate to request the re-establishment of an additional internal outfall, I-06A.

Current NPDES Internal outfall I-06C supports discharge of non-industrial storm water run off from various parking lots located on the east perimeter of the plant's property. The non-industrial storm water run off from the east parking lots discharges into mangrove impoundment 8E, which in turn discharges into the plant's intake cooling water canal. A similar process for the discharge of non-industrial storm water parking lot run off into a small wetland exists on the north section of the St. Lucie Power Plant site property.

Since initial site construction activities, the discharge of parking lot non-industrial storm water run off from the site's north parking lot discharged into a small isolated wetland, depicted as 8G on the enclosed site drainage plan. This discharge point is not currently identified as an approved internal outfall. St. Lucie County has requested permission to connect the drainage from 8G to the adjacent Big Mud Creek. FPL believes it is appropriate to define the discharge from 8G as an approved internal outfall as 8G is now connected to a navigable waterway. Impoundment 8G was previously isolated from Big Mud Creek by a narrow access road, thus wetland 8G was not previously subjected to direct tidal influence.

The St. Lucie County Mosquito Control Department has determined that 8G is the largest source of mosquitoes on Hutchinson Island. Subsequently, St. Lucie County Mosquito Control approached the plant requesting permission to establish a culvert and a tidal gate from Big Mud Creek to impoundment 8G as a method to passively control the mosquito population. St. Lucie County Mosquito Control also determined that the population of mosquitoes emanating from impoundment 8G is of sufficient magnitude to pose a threat to the health and safety of the public, as well as site personnel.

Currently the St. Lucie County Mosquito Control Department manages all of St. Lucie's mangrove impoundments. The control and management of 8G and the associated tidal gate will be added to the Counties mosquito control program.

As stated above, the current St. Lucie Power Plant IWW Permit approved internal outfall I-06C receives only non-industrial parking lot storm water run off from several parking lots located on the east side of St. Lucie property. Outfall I-06C provides the same function as the proposed new outfall, I-06A. Grouping these two outfalls together is appropriate due to similarities in function and process. If the state agrees that an additional internal outfall (I-06A) is warranted, then the plant requests that the required monitoring and reporting schedule for outfall I-06C be applied to the requested outfall, I-06A, and be reflected on St. Lucie's Monthly Discharge Monitoring Report.

Enclosure 2

Four (4) signed, sealed copies of FDEP Form 62-620.910(9)

Application for a Minor Revision to a Wastewater Facility or Activity Permit

(4 pages each copy; 16 pages total)



APPLICATION FOR A MINOR REVISION TO A WASTEWATER FACILITY OR ACTIVITY PERMIT

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- c. Three (3) copies of this application with supporting documentation shall be submitted with this form.
- d. All information is to be typed or printed in ink. Dates are to be entered in MM/DD/YR format.
- e. This application and attachments shall be signed in accordance with Rule 62-620.305, F.A.C. Also, as applicable, this application and all attachments shall be signed and sealed by a professional engineer registered in Florida in accordance with Rule 62-620.310, F.A.C.

2. Facility Information

a. Permit Number: FL0002208 b. Facility Identification Number: _____
c. Project/Facility Name: St. Lucie Power Plant
d. Contact Name: Vince Munne
Number and Street: 6501 S. Ocean Drive
City/State/Zip Code: Jensen Beach, FL 34957
Telephone: 772-263-2847

3. Type of Revision

- ☐ **Correct Typographical Errors¹** - Submit one copy of each page of the permit showing revisions being requested.
- ☐ **Change Improvement Schedule¹** - Provide a description of the improvement, a list of the dates to be revised, and a reason for the proposed change in each date.
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¹A processing fee is not required.

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- ☐ **Minor Modification to the Facility²** - Provide a description of the proposed modification. If applicable, attach any reports, plans, and specifications which have been developed to implement this modification.
- ☒ **Other²** - Provide appropriate documentation. Describe.

4. Certifications

a. Applicant or Authorized Representative

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

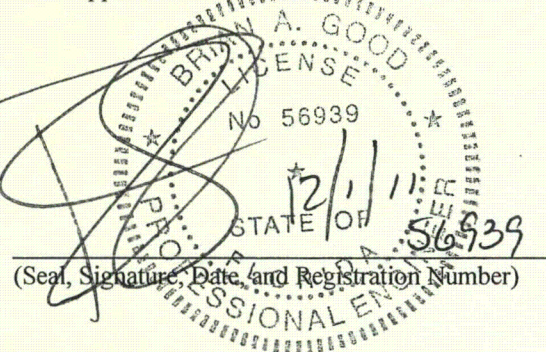
Richard L. Anderson 12-29-2011
(Signature of Applicant or Authorized Representative³) (Date)

Name (please type) Richard L. Anderson Company Name Florida Power & Light
Title Site Vice President Company Address: 6501 S. Ocean Drive
Phone: 772-467-7101 City/State/Zip Code: Jensen Beach, FL 34957

b. Professional Engineer Registered in Florida

I certify that the engineering features of this project have been (designed) (examined) by me and found to conform to engineering principles applicable to such projects. In my professional judgement, this facility, when properly constructed, operated, and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department.

Name (please type): Brian A. Good, P.E.
Florida Registration Number: 56939
Company Name: Kimley-Horn and Associates, Inc.
Company Address: 445 24th Street, Suite 200
City/State/Zip Code: Vero Beach, Florida, 32960
Phone Number: 772-794-4100


(Seal, Signature, Date, and Registration Number)

³If signed by the authorized representative, attach a letter of authorization in accordance Rule 62-620.305, F.A.C.



SOURCE: AERIALS EXPRESS COPYRIGHT(C) 2007

FLUCFCS MAP

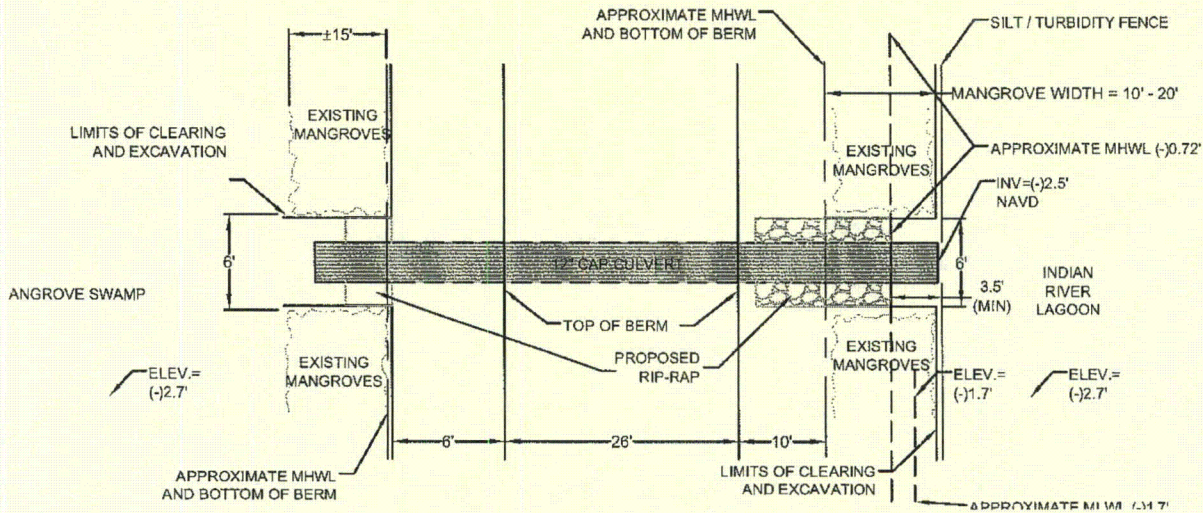
**Kimley-Horn
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© 2010 KIMLEY-HORN AND ASSOCIATES, INC.
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PHONE: 772-794-4100 FAX: 772-794-4130
WWW.KIMLEY-HORN.COM CA 0000699

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047207006

ST. LUCIE COUNTY
MOSQUITO CONTROL DISTRICT
IMPOUNDMENT 8G, 8H, & 8J IMPROVEMENTS

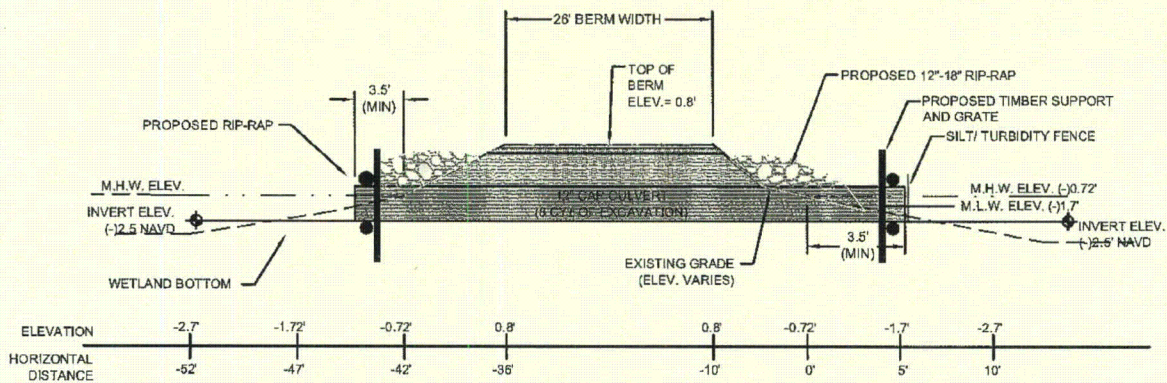
EXHIBIT NUMBER

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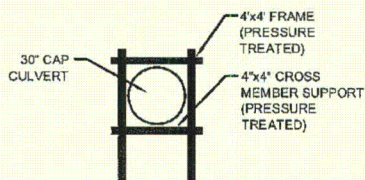


CULVERT PLAN VIEW

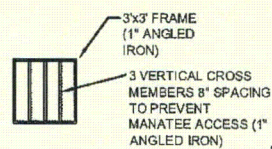
SCALE: NTS



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CULVERT SUPPORT DETAIL



CULVERT GRATE DETAIL

CULVERT CROSS-SECTION VIEW

SCALE: NTS

CULVERT PLAN AND CROSS SECTION - 8J



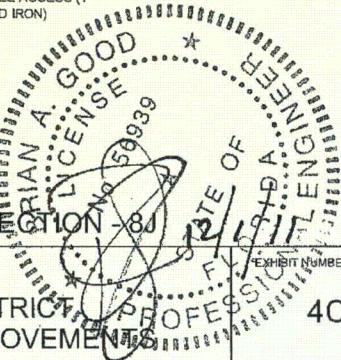
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4C



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(Date)

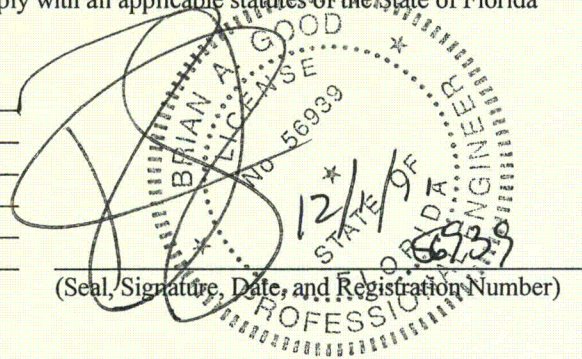
Name (please type) Richard L. Anderson Company Name Florida Power & Light
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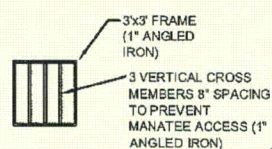
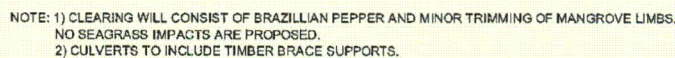
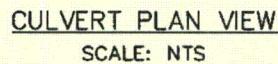
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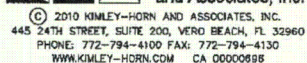
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CULVERT GRATE DETAIL

CULVERT CROSS-SECTION VIEW
SCALE: NTS

CULVERT PLAN AND CROSS SECTION - 8



DATE	9/27/10
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ST. LUCIE COUNTY
MOSQUITO CONTROL DISTRICT
IMPOUNDMENT 8G, 8H, & 8J IMPROVEMENTS

4C

Drawing name: K:\RBS_Environmental\04207006 Impoundments 6 & BIC\ADD\EXHIBIT\Impoundment 6.dwg 4C - CULVERT PLAN- 8J Dec 17, 2010 8:38am by: brady walker



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Richard L. Anderson

(Signature of Applicant or Authorized Representative³)

12-29-2011

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Name (please type) Richard L. Anderson

Company Name Florida Power & Light

Title Site Vice President

Company Address: 6501 S. Ocean Drive

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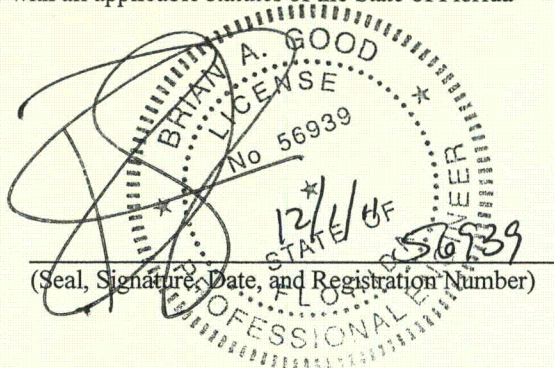
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SOURCE: AERIALS EXPRESS COPYRIGHT(C) 2007

FLUCFCS MAP

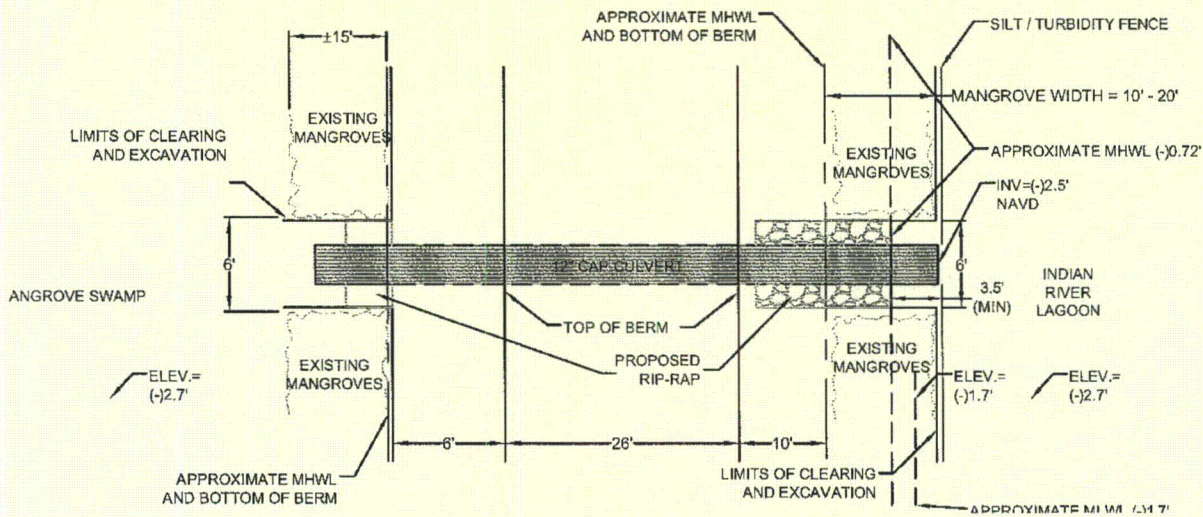
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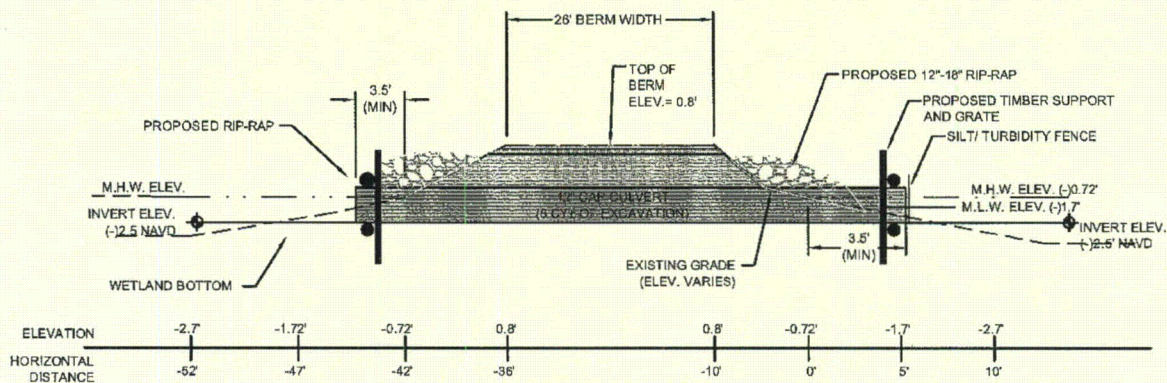
EXHIBIT NUMBER

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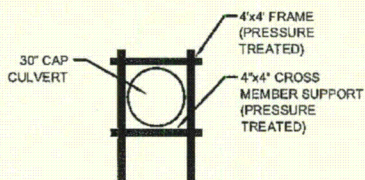


CULVERT PLAN VIEW

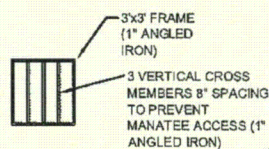
SCALE: NTS



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CULVERT GRATE DETAIL

CULVERT CROSS-SECTION VIEW

SCALE: NTS

CULVERT PLAN AND CROSS SECTION - 8J



**Kimley-Horn
and Associates, Inc.**

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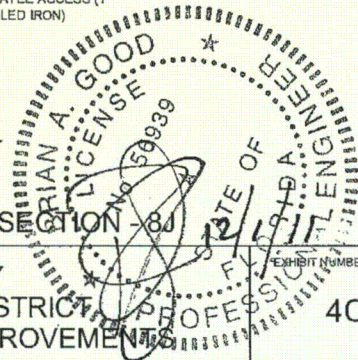


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- ☐ **Correct Typographical Errors¹** - Submit one copy of each page of the permit showing revisions being requested.
- ☐ **Change Improvement Schedule¹** - Provide a description of the improvement, a list of the dates to be revised, and a reason for the proposed change in each date.
- ☐ **Change Expiration Date of Permit¹** - Provide the current and proposed expiration dates for the permit and the reasons for the proposed change.
- ☐ **Change Staffing Requirements²** - Describe the proposed change and submit justification for the change in accordance with Chapter 62-699, F.A.C.

¹A processing fee is not required.

²A processing fee is required with the application in accordance with Rule 62-4.050, F.A.C.

- ☐ **Change Monitoring and Reporting Requirements²** - Describe the proposed change and submit justification for the change in accordance with Chapter 62-601, F.A.C.
- ☐ **Modify Approved Pretreatment Program¹** - Describe the proposed modification and provide the information required by Rule 62-625.540, F.A.C.
- ☐ **Delete Point Source Outfall¹** - Identify the outfall and explain why the outfall is being eliminated.
- ☐ **Modify or Expand Approved Residuals Land Application Sites²** - Attach a new or updated Agricultural Use or Dedicated Site Plan as required by Chapter 62-640, F.A.C.
- ☐ **Minor Modification to the Facility²** - Provide a description of the proposed modification. If applicable, attach any reports, plans, and specifications which have been developed to implement this modification.
- ☒ **Other²** - Provide appropriate documentation. Describe.

4. Certifications

a. Applicant or Authorized Representative

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Richard L. Anderson

(Signature of Applicant or Authorized Representative³)

12-29-2011

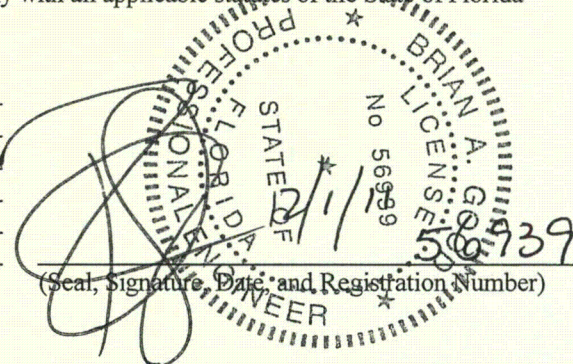
(Date)

Name (please type) Richard L. Anderson Company Name Florida Power & Light
 Title Site Vice President Company Address: 6501 S. Ocean Drive
 Phone: 772-467-7101 City/State/Zip Code: Jensen Beach, FL 34957

b. Professional Engineer Registered in Florida

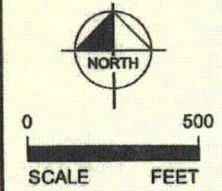
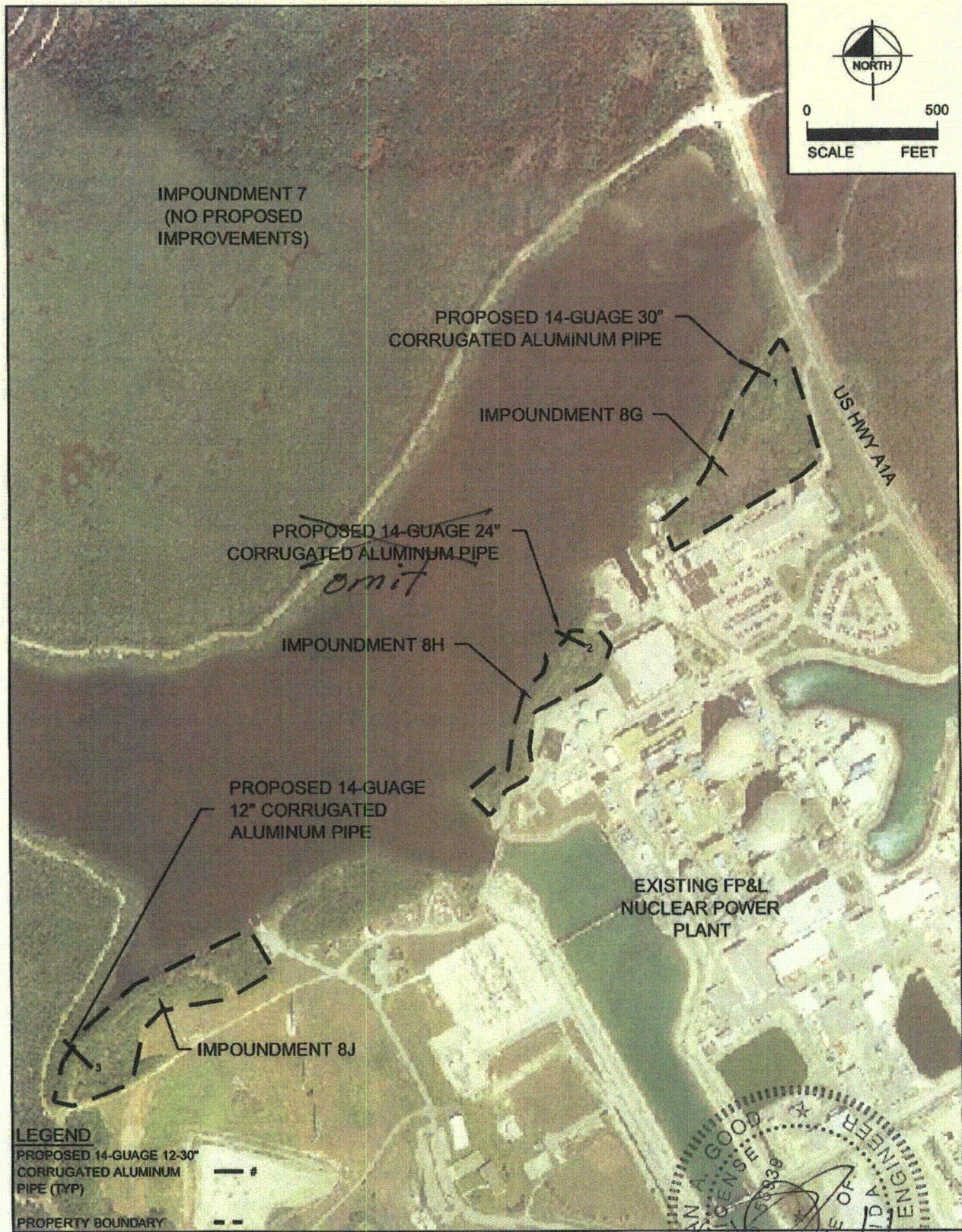
I certify that the engineering features of this project have been (designed) (examined) by me and found to conform to engineering principles applicable to such projects. In my professional judgement, this facility, when properly constructed, operated, and maintained, will comply with all applicable statutes of the State of Florida and rules of the Department.

Name (please type): Brian A. Good, P.E.
 Florida Registration Number: 56939
 Company Name: Kimley-Horn and Associates, Inc.
 Company Address: 445 24th Street, Suite 200
 City/State/Zip Code: Vero Beach, Florida, 32960
 Phone Number: 772-794-4100



(Seal, Signature, Date, and Registration Number)

³If signed by the authorized representative, attach a letter of authorization in accordance Rule 62-620.305, F.A.C.



LEGEND
 PROPOSED 14-GUAGE 12-30\"/>

SOURCE: AERIALS EXPRESS COPYRIGHT(C) 2007

FLUCFCS MAP

Kimley-Horn and Associates, Inc.
 © 2010 KIMLEY-HORN AND ASSOCIATES, INC.
 445 24TH STREET, SUITE 200, VERO BEACH, FL 32960
 PHONE: 772-794-4100 FAX: 772-794-4130
 WWW.KIMLEY-HORN.COM CA 00000898

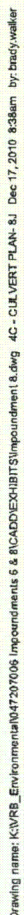
DATE
9/27/10
PROJECT NO.
047207006

ST. LUCIE COUNTY
 MOSQUITO CONTROL DISTRICT
 IMPOUNDMENT 8G, 8H, & 8J IMPROVEMENTS



EXHIBIT NUMBER
3

Drawing name: KIVRB_Environment\047207006 Impoundments 8 & 8J\047207006 Impoundment 8.dwg 3 - FLUCFCS MAP Sep 28, 2010 4:51 pm by: brady.walker
 This document, together with the contracts and design presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of any design or information on this document without the written consent of Kimley-Horn and Associates, Inc. will be subject to liability to Kimley-Horn and Associates, Inc.



Enclosure 3

Maps depicting location of outfall

(4 pages)



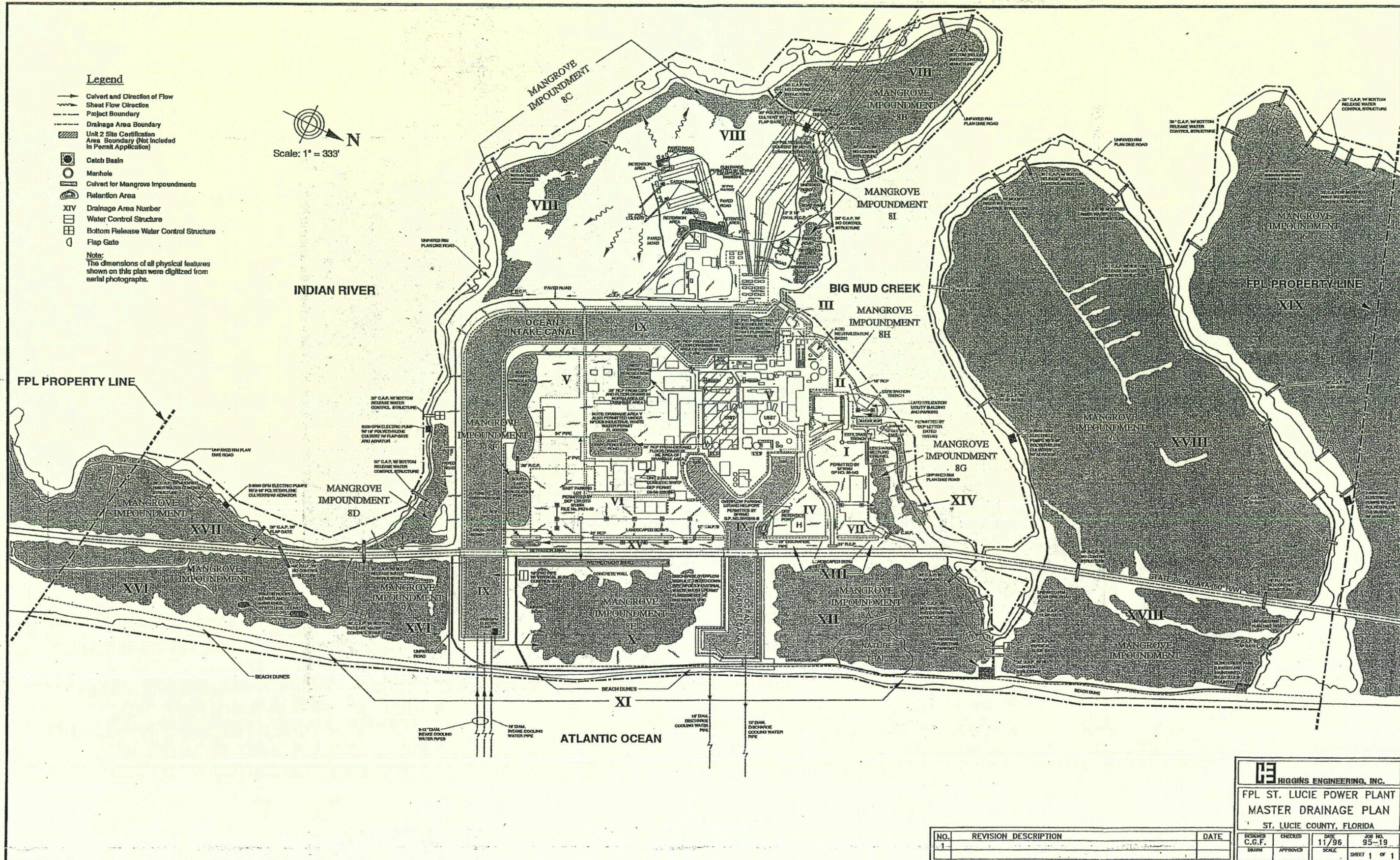
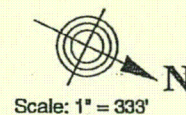




Legend

- Culvert and Direction of Flow
- ~ Sheet Flow Direction
- - - Project Boundary
- - - Drainage Area Boundary
- Unit 2 Site Certification Area Boundary (Not Included in Permit Application)
- Catch Basin
- Manhole
- Culvert for Mangrove Impoundments
- Retention Area
- XIV Drainage Area Number
- Water Control Structure
- Bottom Release Water Control Structure
- Flap Gate

Note:
The dimensions of all physical features shown on this plan were digitized from aerial photographs.



NO.	REVISION DESCRIPTION	DATE
1		

HIGGINS ENGINEERING, INC. FPL ST. LUCIE POWER PLANT MASTER DRAINAGE PLAN ST. LUCIE COUNTY, FLORIDA			
DESIGNED C.G.F.	CHECKED	DATE 11/96	JOB NO. 95-19
DRAWN	APPROVED	SCALE	SHEET 1 OF 1

(PLAN UTIL 850345-0002-00)

Enclosure 4

Letter from the St. Lucie County Mosquito Control District
Dated November 18, 2011
RE: Impoundment 8G Culvert Installation

(1 page)



**ST. LUCIE COUNTY
MOSQUITO CONTROL DISTRICT**

James R. David, MC&CMS Director

**3150 Will Fee Road,
Fort Pierce, FL 34982
(772) 462-1692**

November 18, 2011
Vince Munne
St. Lucie Nuclear Power Plant
Attn.: Land Utilization
South Ocean Drive
Fort Pierce, Florida 34957

RE: Impoundment 8G Culvert Installation

Dear Mr. Munne,

From a Public Health perspective, managing the wetlands along the north and east side of the Hutchinson Island Nuclear Power Plant is extremely critical.

They are producing most of the mosquitoes that the plant employees experience, and were the initial source of most of the serious mosquito breeding that took place on South Hutchinson Island in 2011 that affected several thousand residents living north and west of the plant.

Installation of the culvert in Impoundment 8G will both benefit the wetland from a functional standpoint, as well as, from a public health perspective, because it will allow tidal flushing of the wetland, as well as, create a natural predator base for controlling the mosquitoes breeding in the wetland.

Please let me know if I need to provide further information, my contact number is 772-462-1686.

Thank you.

Sincerely,

James R. David

James R. David
Director

Enclosure 5

FPL Check payable to the Florida Department of Environmental Protection

(1 page)

FLORIDA POWER & LIGHT COMPANY
700 Universe Boulevard
Juno Beach, FL 33408

Check Date: 12/21/2011

Check No. 5000047120

BANK OF AMERICA, NA

TWO HUNDRED FIFTY DOLLARS

\$250.00

PAY TO THE
ORDER OF

FLORIDA DEPARTMENT OF ENVIRONMENTAL
PROTECTION
2600 BLAIRSTONE ROAD
TALLAHASSEE FL 32399-2400

Void after 180 days

FLORIDA POWER & LIGHT CO

Paul Cuthbert

⑈5000047120⑈ ⑆06112788⑆ 3299977761⑈

FLORIDA POWER & LIGHT CO
Vendor Name: FLORIDA DEPARTMENT OF ENVIRONMENTAL

Check Date : 12/21/2011
Check Number: 5000047120

Invoice Number	Invoice Date	Document Header Text	Gross Amount	Discount	Net Amount
FL00002208	12/20/2011	PERMIT FEE	250.00	0.00	250.00
		Check Total.....			\$250.00