

AUSLEY & McMULLEN

ATTORNEYS AND COUNSELORS AT LAW

227 SOUTH CALHOUN STREET
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TALLAHASSEE, FLORIDA 32301
(850) 224-9115 FAX (850) 222-7560

050683 - EI

September 29, 2005

HAND DELIVERED

Ms. Blanca S. Bayo, Director
Division of Commission Clerk
and Administrative Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, FL 32399-0850

Re: Petition of Tampa Electric Company for Approval of a New Environmental Program for Cost Recovery through the Environmental Cost Recovery Clause

Dear Ms. Bayo:

Enclosed for filing in the above-styled matter are the original and fifteen (15) copies of Tampa Electric Company's Petition for Approval of a New Environmental Program for Cost Recovery through the environmental Cost Recovery Clause.

Please acknowledge receipt and filing of the above by stamping the duplicate copy of this letter and returning same to this writer.

Thank you for your assistance in connection with this matter.

Sincerely,



James D. Beasley

JDB/pp
Enclosure

DOCUMENT NUMBER DATE
09259 SEP 29 '05
FPSC-COMMISSION CLERK

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Petition of Tampa Electric Company)
for approval of a new environmental)
program for cost recovery through)
the Environmental Cost Recovery Clause.)
_____)

DOCKET NO. 050683-E1
FILED: SEPTEMBER 29, 2005

**PETITION OF TAMPA ELECTRIC COMPANY FOR APPROVAL OF
A NEW ENVIRONMENTAL PROGRAM FOR COST RECOVERY
THROUGH THE ENVIRONMENTAL COST RECOVERY CLAUSE**

Tampa Electric Company ("Tampa Electric" or "the company"), by and through its undersigned counsel, and pursuant to Section 366.8255, Florida Statutes, and Florida Public Service Commission ("Commission") Order Nos. PSC-94-0044-FOF-EI and PSC-94-1207-FOF-EI, hereby petitions this Commission for approval of the company's new environmental compliance program – Arsenic Groundwater Standard Program – for cost recovery through the Environmental Cost Recovery Clause ("ECRC").

1. Tampa Electric is an investor-owned electric utility subject to the Commission's jurisdiction pursuant to Chapter 366, Florida Statutes. Tampa Electric serves retail customers in Hillsborough and portions of Polk, Pinellas and Pasco Counties in Florida. The company's principal offices are located at 702 North Franklin Street, Tampa, Florida 33602.

2. The persons to whom all notices and other documents should be sent in connection with this docket are:

Lee L. Willis
James D. Beasley
Ausley & McMullen
Post Office Box 391
Tallahassee, FL 32302
(850) 224-9115
(850) 222-7952 (fax)

Angela Llewellyn
Administrator, Regulatory Coordination
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601
(813) 228-1752
(813) 228-1770 (fax)

3. On March 23, 2001, the U.S. Environmental Protection Agency established a new standard for the drinking water and groundwater Maximum Contaminant Level (“MCL”) for arsenic of 10.0 parts per billion (“ppb”) effective January 1, 2006 under the federal rule known as the Safe Drinking Water Act (“Act”). The Florida Department of Environmental Protection (“DEP”) administers the Act as delineated in Chapter 62-550.310, Florida Administrative Code (“F.A.C.”), concerning Drinking Water Standards, Monitoring and Reporting and Chapter 62-520.420(1), F.A.C., concerning Groundwater Classes, Standards and Exemptions. In addition, on November 27, 2001, the DEP moved the effective date for regulated entities of the State of Florida to January 1, 2005.

4. The new standard applies to all Tampa Electric facilities that have a regulated drinking water system or an existing state approved Groundwater Monitoring Plan (“GWMP”) which includes arsenic in the routine monitoring. These facilities include the H.L. Culbreath Bayside (“Bayside”), Big Bend and Polk Power Stations.

5. Bayside and Big Bend Power Stations will be affected by the lowered MCL for arsenic. Groundwater samples taken from several monitoring wells surrounding these plants have indicated arsenic levels that are higher than the new arsenic MCL standard of 10.0 ppb. Polk Power Station, however, is already in compliance with the new MCL standard.

6. On June 7, 2005, the DEP issued Tampa Electric an Industrial Wastewater (“IWW”) Facility Permit, Permit Number FLA 184713-006-IWIN, to operate a wastewater treatment system at Bayside Power Station. Attached to the IWW permit is an Administrative Order (“AO”), AO-094-SW, which specifically addresses compliance with the new groundwater standard for arsenic and a timeline for obtaining compliance with the standard. The IWW permit and AO are provided hereto as Exhibits “A” and “B,” respectively.

7. Section III, Item 2 of the AO states the following: "As of January 1, 2005, the groundwater quality standard for arsenic changed from 50 ug/L [microgram per liter] to 10 ug/L. The facility shall have twenty-four (24) months from the date of permit issuance to identify appropriate technology, operational, or wastewater treatment options that will be implemented so that the wastewater discharge will be in compliance with the new arsenic standard. TEC shall submit a plan of study (POS) within six (6) months of permit issuance identifying the specific technology, operational, or wastewater treatment options that will be implemented, a schedule for implementation and the date by which the facility will meet the new arsenic standard."

8. For Big Bend Station, the IWW permit renewal application was deemed complete by DEP on January 29, 2002; however, the final permit has not been issued. Therefore, the plant continues to operate under the old IWW permit. As previously stated, Big Bend Station will be affected by the new arsenic MCL standard. Where there are facilities that likely will not meet the new arsenic standard, the DEP has indicated an AO requiring the new standard will be issued upon permit renewal. The company anticipates an IWW permit for Big Bend Station to be issued in 2006 which will contain requirements similar to those contained in Bayside Power Station's IWW permit.

Qualifications and Estimated Expenditures for ECRC Recovery

9. Tampa Electric will incur costs for the Arsenic Groundwater Standard Program in order to meet the compliance requirement related to the DEP permit. The new program meets the criteria established by this Commission in Docket No. 930613-EI, Order No. PSC-94-0044-FOF-EI in that:

- (a) All expenditures will be prudently incurred after April 13, 1993.

- (b) The activities are legally required to comply with a governmentally imposed environmental regulation enacted, became effective, or whose effect was triggered after the company's last test year upon which rates are based.
- (c) None of the expenditures are being recovered through some other cost recovery mechanism or through base rates.

10. The costs for which Tampa Electric is seeking ECRC recovery are for operating & maintenance ("O&M") expenses associated with the development and implementation of the POS for Bayside and Big Bend Power Stations. The O&M projection is \$30,000 for 2005, \$96,000 for 2006 and \$114,000 for 2007. Exhibit "C" details the company's forecast of these O&M expenses that are necessary to meet the IWW permit requirements at both stations; however, no costs will be incurred at Big Bend Power Station until the IWW permit and AO have been issued.

11. Tampa Electric expects to begin incurring costs associated with this program in October 2005. Tampa Electric is not requesting a change in its ECRC factors that have been approved for calendar year 2005. Instead, the company proposes to include in its true up filing for 2005 all program costs incurred subsequent to the filing of this Petition through the end of 2005. Then, the company will include program costs incurred or projected for 2006 in its 2006 actual/estimated true-up filing. All of these costs will be subject to audit by the Commission.

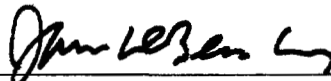
12. The program is a compliance activity associated with the Safe Drinking Water Act that should be allocated to rate classes on a demand basis.

13. Tampa Electric is not aware of any disputed issues of material fact relative to the matters set forth in this Petition.

WHEREFORE, Tampa Electric respectfully requests the Commission to approve the company's proposed Arsenic Groundwater Standard Program and recovery of the costs of this program through the ECRC in the manner described herein.

DATED this 29th day of September, 2005.

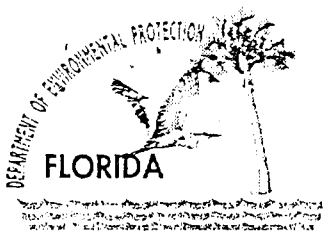
Respectfully submitted,



LEE L. WILLIS
JAMES D. BEASLEY
Ausley & McMullen
Post Office Box 391
Tallahassee, FL 32302
(850) 224-9115

ATTORNEYS FOR TAMPA ELECTRIC COMPANY

Tampa Electric Company
Exhibit A
Industrial Wastewater Permit No. FLA 184713-006-IWIN



Department of Environmental Protection

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Colleen M. Castille
Secretary

RECEIVED

June 7, 2005

JUN 08 2005

In the Matter of an
Application for Permit by:

**Environmental, Health
and Safety**

Tampa Electric Company
Mr. David M. Lukcic, Manager, Land and Water
P.O. Box 111
Tampa, FL 33601-0111

PA File No. FLA184713-006-IWIN
Hillsborough County
Tampa Electric Company-Culbreath Bayside Power Station

NOTICE OF PERMIT ISSUANCE

Enclosed is Permit Number FLA184713 to operate a wastewater treatment system. The existing six coal-fired steam electric generating units, with a nominal capacity of 1200 MW, have been re-powered by seven (7) combustion turbines (CTs) and seven (7) heat recovery steam generators (HRSGs). The re-powered units are designated as the Bayside Power Station, and are capable of producing approximately 1,183 MW of electrical energy. Coal burning operations were terminated in January 2005. Volume and rates of production of coal combustion byproducts (bottom ash, fly ash, boiler slag) have decreased since being replaced with natural gas-fired (combined cycle) generation. The fuel yard is the site of temporary storage of coal combustion products. Use of the existing Ash Storage Area has been discontinued. Contact stormwater from the Coal Storage Area and the new Power Block (28 acres) has been routed to Pond #1 and the non-contact stormwater from the Power Block and the former Ash Handling Area is discharged either to wastewater ponds or to Stormwater Treatment Facility-2 (STF-2) for treatment. Other sources of wastewater include HRSG chemical cleaning and compressor washes, floor and equipment wash down, treated sanitary wastewater from the domestic wastewater treatment plant, demineralizer wastes, reverse osmosis concentrate and auxiliary cooling water blowdown. This permit is issued under Section(s) 403, Florida Statutes.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes, within fourteen days of receipt of notice. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received by the clerk) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

Under Rule 62-110.106(4), Florida Administrative Code, a person may request enlargement of the time for filing a petition for an administrative hearing. The request must be filed (received by the clerk) in the Office of General Counsel before the end of the time period for filing a petition for an administrative hearing.

Petitions by the applicant or any of the persons listed below must be filed within fourteen days of receipt of this written notice. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), Florida Statutes, must be filed within fourteen days of publication of the notice or within fourteen days of receipt of the written notice, whichever occurs first. Under Section 120.60(3), Florida Statutes, however, any person who has

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Printed on recycled paper.

PERMITTEE: Tampa Electric Company

PA FILE NUMBER.: FLA184713-006-IWIN

FACILITY: Tampa Electric Company-Culbreath Bayside Power Station

asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication.

The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within fourteen days of receipt of notice shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, Florida Statutes. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name, address, and telephone number of each petitioner; the name, address, and telephone number of the petitioner's representative, if any; the Department permit identification number and the county in which the subject matter or activity is located;
- (b) A statement of how and when each petitioner received notice of the Department action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department action;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A statement of facts that the petitioner contends warrant reversal or modification of the Department action;
- (f) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation under Section 120.573, Florida Statutes, is not available for this proceeding.

This permit action is final and effective on the date filed with the clerk of the Department unless a petition is filed in accordance with the above. Upon the timely filing of a petition this permit will not be effective until further order of the Department.

Any party to the permit has the right to seek judicial review of the permit action under Section 120.68, Florida Statutes, by the filing of a notice of appeal under Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000; and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within 30 days from the date when this permit action is filed with the clerk of the Department.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Jeffrey S. Greenwell, P.E.
Water Facilities Administrator
Southwest District

PERMITTEE: Tampa Electric Company

PA FILE NUMBER.: FLA184713-006-IW1N

FACILITY: Tampa Electric Company-Culbreath Bayside Power Station

CERTIFICATE OF SERVICE

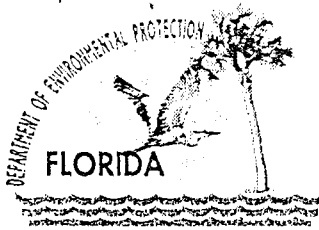
The undersigned hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on June 7, 2005 to the listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, under Section 120.52, Florida Statutes, with the designated deputy clerk. receipt of which is hereby acknowledged.

Jacqueline M. Price [Clerk] June 7, 2005 [Date]

cc: David Burgstiner, URS
Ilia Balcom, IW-CE
Bill Kelsey, WARM/GW
Bill Kutash, Waste Management
Susan Pelz, P.E., Solid Waste
Sam Elrabi, P.E., HCEPC
Allen Hubbard, P.E., IW/TAL



Department of Environmental Protection

RECEIVED

Jeb Bush
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

JUN 08 2005

Colleen M. Castille
Secretary

Environmental, Health
and Safety

STATE OF FLORIDA INDUSTRIAL WASTEWATER FACILITY PERMIT

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

PERMIT NUMBER:

FLA184713

PA FILE NUMBER:

FLA184713-006-IW1N

ISSUANCE DATE:

June 7, 2005

EXPIRATION DATE:

June 6, 2010

RESPONSIBLE AUTHORITY:

Mr. David M. Lukcic
Manager, Land and Water

FACILITY:

Tampa Electric Company-Culbreath Bayside Power Station
3602 Port Sutton Road
Tampa, FL 33619
Hillsborough County

Latitude: 27° 54' 30" N Longitude: 82° 24' 53" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.) and applicable rules of the Florida Administrative Code (F.A.C.). This permit is accompanied by an Administrative Order pursuant to Paragraphs 403.088(2)(e) and (f), Florida Statutes. Compliance with Administrative Order AO-094-SW is a specific requirement of this permit. The above named permittee is hereby authorized to operate the facilities shown on the application and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

Bayside Station is a natural gas electric generating plant that contains seven (7) combustion turbines (CTs) and seven (7) heat recovery steam generators (HRSGs), which produces approximately 1,183 megawatts (MW) of electricity. Steam created by the HRSGs in Bayside Station will serve two (2) re-powered steam turbines at Gannon Station, which will produce an additional 563 MW of electricity.

WASTEWATER TREATMENT:

The existing six coal-fired steam electric generating units, with a nominal capacity of 1200 MW, have been re-powered by seven (7) combustion turbines (CTs) and seven (7) heat recovery steam generators (HRSGs). The re-powered units are designated as the Bayside Power Station, and are capable of producing approximately 1,183 (MW) of electrical energy. Coal burning operations were terminated in October 2003. Volume and rates of production of coal combustion byproducts (bottom ash, fly ash, boiler slag) have decreased since being replaced with natural gas-fired (combined cycle) generation. The fuel yard is the site of temporary storage of coal combustion products. Use of the existing Ash Storage Area has been discontinued. Contact stormwater from the Coal Storage

PERMITTEE: Tampa Electric Company
FACILITY: H.L. Culbreath Bayside Power Station

PERMIT NUMBER: FLA184713-006-IW1N

Area and the new Power Block (28 acres) has been routed to Pond #1 and the non-contact stormwater from the Power Block and the former Ash Handling Area is discharged either to wastewater ponds or to Stormwater Treatment Facility-2 (STF-2) for treatment. Other sources of wastewater include HRSG chemical cleaning and compressor washes, floor and equipment wash down, treated sanitary wastewater from the domestic wastewater treatment plant, demineralizer wastes, reverse osmosis concentrate and auxiliary cooling water blowdown.

Operation and Treatment of the Domestic Wastewater consists of the following:

A 0.005 mgd AADF type III extended aeration domestic wastewater treatment plant consisting of the following units: One (1) surge tank equipped with a bar screen and flow splitter box having approximate capacity of 693 gallons, two (2) aeration tanks with a combined capacity of 5,084 gallons, two (2) final settling tanks with a combined effective surface area of 112 square feet, two (2) chlorine contact tanks with a combined capacity of 800 gallons, two (2) aerobic residuals holding tanks with a capacity of 1,808 gallons. Residuals are lime stabilized to Class B standards prior to land application.

EFFLUENT DISPOSAL:

Land Application:

An existing 10.4 MGD monthly average daily flow (MADF) permitted capacity land application system (G-001) consisting of industrial percolation pond system. Discharge of treated domestic wastewater from an existing 0.005 MGD treatment plant is directed to the industrial wastewater percolation pond system. Land application system G-001 is located approximately at latitude 28° 54' 28.00" N, longitude 82° 25' 24.00" W.

IN ACCORDANCE WITH: The limitations, monitoring requirements and other conditions as set forth in Part I through Part VIII on pages 3 through 26 of this permit.

I. Effluent Limitations and Monitoring Requirements

A. Surface Water Discharges

- The surface water discharges from this facility are permitted under NPDES Permit No. FL0000809.

B. Underground Injection Control Systems

- This section is not applicable to this facility.

C. Land Application Systems

- During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge process wastewater, reverse osmosis reject water, stormwater, and non process wastewater to Land Application System G-001, a percolation pond system. Such discharge shall be limited and monitored by the permittee as specified below:

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Recycle Flow (MGD)	Report	--	--	Monthly	Calculated	FLW-1
Solids, Total Suspended (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Nitrogen, Total (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Nitrogen, Nitrate, Total (as N) (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Chloride (as Cl) (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Arsenic, Total Recoverable (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Barium, Total Recoverable (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Fluoride, Total (as F) (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Nickel, Total Recoverable (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Thallium, Total Recoverable (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Sodium, Total Recoverable (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Solids, Total Dissolved (TDS) (MG/L)	--	Report	--	Monthly	Grab	LAL-1
pH (SU)	--	Report	Report	Monthly	Grab	LAL-1
Alpha, Gross Particle Activity (PCI/L)	--	Report	--	Monthly	Grab	LAL-1
Carbon, Total Organic (TOC) (MG/L)	--	Report	--	Monthly	Grab	LAL-1
Radium 226+228 (PCI/L)	--	See Condition I.C.3	--	Monthly	Grab	LAL-1

PERMITTEE: Tampa Electric Company
FACILITY: H.L. Culbreath Bayside Power Station

PERMIT NUMBER: FLA184713-006-IW1N

2. Effluent samples shall be taken at the monitoring site locations listed in permit condition I.C.1 and as described below:

Sample Point	Description of Monitoring Location
FLW-1	At the end of effluent pumps.
LAL-1	At the discharge end of effluent pumps that recycle the water to the power plant.

3. The permittee shall sample and monitor for radium 226 and 228 for one year. This parameter shall also be monitored in the groundwater monitoring wells under Permit Condition III.A.2. If the levels in the compliance wells indicate levels meeting the drinking water standards listed under Chapter 62.550, F.A.C., the permittee may submit to the Department a request to discontinue monitoring of this parameter under the effluent and groundwater requirements.

4. During the period beginning on the issuance date of this permit and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System G-001. Such reclaimed water shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Reclaimed Water Limitations				Monitoring Requirements			
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow	mgd	Maximum	0.005	-	-	-	5 Days/Week	Flow meter	EFF-02	See Cond.I.C.6
BOD, Carbonaceous 5 day, 20C	mg/l	Maximum	20.0	30.0	-	60.0	Monthly	Grab	EFF-01	
Solids, Total Suspended	mg/l	Maximum	20.0	30.0	-	60.0	Monthly	Grab	EFF-01	
pH	s.u.	Range	-	-	-	6.0 to 8.5	5 Days/Week	Grab	EFF-01	
Coliform, Fecal	#/100ml	Maximum	See Permit Condition I.C.7.				-	Grab	EFF-01	
Total Residual Chlorine (For Disinfection)	mg/l	Minimum	-	-	-	0.5	5 Days/Week	Grab	EFF-01	See Cond.I.C.8

5. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I. C. 4. and as described below:

Monitoring Location Site Number	Description of Monitoring Location
EFF-01	After disinfection and prior to discharge to the industrial reuse system
EFF-02	A flow meter located on the discharge of the chlorine contact tank

6. A flow meter shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6)]*
7. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of reclaimed water sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of reclaimed water, each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. No more than 10 percent of the samples collected (the 90th percentile value) during a period of 30 consecutive days shall exceed 400 fecal coliform values per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample. Note: To report the 90th percentile value, list the fecal coliform values obtained during the month in ascending order. Report the value of the sample that corresponds to the 90th percentile (multiply the number of samples by 0.9). For example, for 30 samples, report the corresponding fecal coliform number for the 27th value of ascending order. *[62-610.410 and 62-600.440(4)(c)]*
8. A minimum of 0.5 mg/L total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. *[62-610.410 and 62-600.440(4)(b)]*

D. Other Methods of Disposal or Recycling

1. There shall be no discharge of industrial wastewater from this facility to ground or surface waters, except as authorized by this permit.

E. Other Limitations and Monitoring and Reporting Requirements

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below:

Parameter	Units	Max/Min	Limitations				Monitoring Requirements			Notes
			Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	
BOD, Carbonaceous 5 day, 20C	mg/l	Maximum	-	Report	-	-	Monthly	Grab	INF-01	See Cond.I.E.3
Solids, Total Suspended	mg/l	Maximum	-	Report	-	-	Monthly	Grab	INF-01	See Cond.I.E.3
Percent Capacity, (TMADF/Permitted Capacity) x 100	%	Maximum	-	Report (Mo.Total)	-	-	Monthly	Calculated	EFF-02	

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2. Samples shall be taken at the monitoring site locations listed in Permit Condition I. E. 1 and as described below:

Monitoring Location Site Number	Description of Monitoring Location
INF-01	Influent point ahead of the treatment process
EFF-02	A flow meter located on the discharge of the chlorine contact tank

3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-601.500(4)]
4. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. Parameters which must be monitored as a result of a ground water discharge (i.e., underground injection or land application system) shall be analyzed in accordance with Chapter 62-601, F.A.C. [62-620.610(18)]
5. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. [62-601.500(5)]
6. Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Southwest District Office Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e., monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below.

REPORT Type on DMR	Monitoring Period	DMR Due Date
Monthly or Toxicity	first day of month – last day of month	28 th day of following month
Quarterly	January 1 - March 31 April 1 – June 30 July 1 – September 30 October 1 – December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 – June 30 July 1 – December 31	July 28 January 28
Annual	January 1 – December 31	January 28

DMRs shall be submitted for each required monitoring period including months of no discharge.

The permittee shall make copies of the attached DMR form(s) and shall submit the original completed DMR form(s) to the address specified below: (Please submit a copy of the DMR to the Southwest District Office)

Originals to:
 Department of Environmental Protection
 Wastewater Compliance Evaluation Section
 Mail Station 3551
 Twin Towers Office Building
 2600 Blair Stone Road
 Tallahassee, Florida 32399-2400

Copies to:
 FDEP-Southwest District
 Industrial Wastewater Program
 Southwest District Office
 3804 Coconut Palm Drive
 Tampa, Florida 33619-1352
 Facsimile (813) 744-8198

PERMITTEE: Tampa Electric Company
FACILITY: H.L. Culbreath Bayside Power Station

PERMIT NUMBER: FLA184713-006-IW1N

7. Unless specified otherwise in this permit, all reports and notifications required by this permit, including twenty-four hour notifications, shall be submitted to or reported to the Southwest District Office at the address specified below:

Southwest District Office
3804 Coconut Palm Drive
Tampa, FL 33619-1352

Phone Number - (813) 744-6100

FAX Number - (813) 744-8198 (All FAX copies shall be followed by original copies.)

8. All reports and other information shall be signed in accordance with requirements of Rule 62-620.305, F.A.C.
9. The permittee shall provide safe access points for obtaining representative samples which are required by this permit.
10. If there is no discharge from the facility on a day scheduled for sampling, the sample shall be collected on the day of the next discharge.
11. Any bypass of the treatment facility which is not included in the monitoring specified in sections I.A, I.B, I.C, or I.D, is to be monitored for flow and all other required parameters. For parameters other than flow, at least one grab sample per day shall be monitored. Daily flow shall be monitored or estimated, as appropriate, to obtain reportable data. All monitoring results shall be reported on the appropriate DMR.

F. Domestic Wastewater Residuals Management Requirements

1. The method of residuals use or disposal by this facility is land application or disposal in a Class I or II solid waste landfill.
2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals. [62-640.300(5)]
3. The permittee will not be held responsible for violations resulting from land application of residuals if the permittee can demonstrate that it has delivered residuals that meet the parameter concentrations and appropriate treatment requirements of this rule and the applier (e.g. hauler, contractor, site manager, or site owner) has legally agreed in writing to accept responsibility for proper land application of the residuals. Such an agreement shall state that the applier agrees, upon delivery of residuals that have been treated as required by Chapter 62-640, F.A.C., that he will accept responsibility for proper land application of the residuals as required by Chapter 62-640, F.A.C., and that the applier agrees that he is aware of and will comply with requirements for proper land application as described in the facility's permit.
[62-640.300(5)]
4. Disposal of residuals, septage, and other solids in a solid waste landfill, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C. [62-640.100(6)(k)3 & 4]
5. Land application of residuals shall be in accordance with the conditions of this permit, the approved Agricultural Use Plan(s), and the requirements of Chapter 62-640, F.A.C. [62-640]
6. The domestic wastewater residuals for this facility are classified as Class B.

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7. The permittee shall achieve Class B pathogen reduction by meeting the pathogen reduction requirements in section 503.32(b)(3) (Use of PSRP) of Title 40 CFR Part 503, revised as of October 25, 1995. [62-640.600(1)(b)]
8. The permittee shall achieve vector attraction reduction by meeting the vector attraction reduction requirements in section 503.33(b)(6) (Add alkaline materials to raise the pH under specified conditions) and of Title 40 CFR Part 503, revised as of October 25, 1995. [62-640.600(2)(a)]
9. Treatment of liquid residuals or septage for the purpose of meeting the pathogen reduction or vector attraction reduction requirements set forth in Rule 62-640.600, F.A.C., shall not be conducted in the tank of a hauling vehicle. Treatment of residuals or septage for the purpose of meeting pathogen reduction or vector attraction reduction requirements shall take place at the permitted facility. [62-640.400(8)]
10. The permittee shall sample and analyze the Class A or Class B residuals to monitor for pathogen and vector attraction reduction requirements of Rule 62-640.600, F.A.C., and the parameters listed in the table below at least once every twelve (12) months.

Parameter	Ceiling Concentrations (Single Sample)	Cumulative Application Limits
Total Nitrogen	(Report only) % dry weight	Not applicable
Total Phosphorus	(Report only) % dry weight	Not applicable
Total Potassium	(Report only) % dry weight	Not applicable
Arsenic	75 mg/kg dry weight	36.6 pounds/acre
Cadmium	85 mg/kg dry weight	34.8 pounds /acre
Copper	4300 mg/kg dry weight	1340 pounds/acre
Lead	840 mg/kg dry weight	268 pounds/acre
Mercury	57 mg/kg dry weight	15.2 pounds/acre
Molybdenum	75 mg/kg dry weight	Not applicable
Nickel	420 mg/kg dry weight	375 pounds/acre
Selenium	100 mg/kg dry weight	89.3 pounds/acre
Zinc	7500 mg/kg dry weight	2500 pounds/acre
pH	(Report only) standard units	Not applicable
Total Solids	(Report only) %	Not applicable

[62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3)]

11. Sampling and analysis shall be conducted in accordance with Title 40 CFR Part 503, section 503.8 and the U.S. Environmental Protection Agency publication - POTW Sludge Sampling and Analysis Guidance Document, 1989. In cases where disagreements exist between Title 40 CFR Part 503, section 503.8 and the POTW Sludge

Sampling and Analysis Guidance Document, the requirements in Title 40 CFR Part 503, section 503.8 will apply. [62-640.650(1), 62-640.700(1), 62-640.700(3)(b), and 62-640.850(3)]

12. Grab samples shall be used for pathogens and determinations of percent volatile solids. Composite samples shall be used for metals. [62-640.650(1)(e)]
13. Residuals shall not be land applied if a single sample result for any parameter exceeds the ceiling concentrations given in this permit. Residuals shall not be distributed and marketed if the monthly average of sample results for any parameter exceeds the Class AA parameter concentrations given in this permit. Monthly averages of parameter concentrations shall be determined by taking the arithmetic mean of all sample results for the month. [62-640.650(1)(f)]
14. The permittee shall submit the results of all residuals monitoring with the permittee's Discharge Monitoring Report under Chapter 62-601, F.A.C. The analytical results from each sampling event shall be submitted with the report for the month in which the sampling event occurs. [62-640.650(3)(a)&(e)]
15. Class B residuals shall not be used on unrestricted public access areas. Use of Class B residuals is limited to restricted public access areas such as agricultural sites, forests, and roadway shoulders and medians. [62-640.600(3)(b)]
16. Plant nursery use of Class B residuals is limited to plants which will not be sold to the public for 12 months after the last application of residuals. [62-640.600(3)(b)1.]
17. Use of Class B residuals on roadway shoulders and medians is limited to restricted public access roads. [62-640.600(3)(b)2.]
18. Food crops, feed crops, and fiber crops shall not be harvested for 30 days following the last application of Class B residuals. [62-640.600(3)(b)6.]
19. Food crops with harvested parts that touch the residuals/soil mixture and are totally above the land surface shall not be harvested for 14 months after the last application of Class B residuals. [62-640.600(3)(b)3.]
20. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after application of Class B residuals when the residuals remain on the land surface for four months or longer before incorporation into the soil. [62-640.600(3)(b)4.]
21. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months after application of Class B residuals when the residuals remain on the land surface for less than four months before incorporation into the soil. [62-640.600(3)(b)5.]
22. Animals shall not be grazed on the land for 30 days after the last application of Class B residuals. [62-640.600(3)(b)7.]
23. Sod which will be distributed or sold to the public or used on unrestricted public access areas shall not be harvested for 12 months after the last application of Class B residuals. [62-640.600(3)(b)8.]
24. The public shall be restricted from application zones for 12 months after the last application of Class B residuals. [62-640.600(3)(b)]
25. Residuals that do not meet the requirements of Chapter 62-640, F.A.C., for Class AA designation shall not be used for the cultivation of tobacco or leafy vegetables. [62-640.400(7)]

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26. Current Agricultural Use Plan(s) identify residuals landspreading on the following sites:

Site Name	Site Type (AG or LR)	App. Area (acres)	Site Location						
			County	Latitude			Longitude		
				DD	MM	SS	DD	MM	SS
Hobbs Road Residuals Site	AG	120	Hillsborough	27	40	18	82	15	00

The wastewater treatment facility permittee shall apply for a minor permit revision on DEP Form 62-620.910(9) for new, modified, or expanded residuals land application sites. The facility's permit shall be revised to include the new or revised Agricultural Use Plan(s) prior to application of residuals to the new, modified, or expanded sites, unless all of the following conditions are met:

- a) The permittee notifies the Department within 24 hours that the site is being used;
 - b) The site meets the site use restrictions of Rule 62-640.600(3), F.A.C, and the criteria for land application of residuals in Rule 62-640.700, F.A.C.;
 - c) The permittee submits a new or revised Agricultural Use Plan for the site with a permit application in accordance with Rule 62-640.300(2), F.A.C., within 30 days of beginning use of the site;
 - d) The permittee does not have another approved land application site, another approved disposal method (e.g. landfilling or incineration), or approved storage facilities available for use; and,
 - e) The permittee demonstrates during permit application that application of additional residuals to an existing approved application site would have resulted in violation of Department rules, or was not possible due to circumstances beyond the permittee's control. [62-640.300(2)&(3)]
27. Residuals application rates are limited to agronomic rates based on the site vegetation as identified in the Agricultural Use Plan. [62-640.750(2)]
 28. Residuals shall be applied with appropriate techniques and equipment to assure uniform application over the application zone. [62-640.700(2)(c)]
 29. The spraying of liquid domestic wastewater residuals shall be conducted so that the formation of aerosols is minimized. [62-640.700(2)(d)]
 30. Residuals storage facilities at land application sites shall be subject to applicable setback requirements for residuals application sites. Residuals stored at land application sites shall be stored in a manner that will not cause runoff or seepage from the residuals, objectionable odors, or vector attraction. Storage areas must be fenced or otherwise provided with appropriate features to discourage the entry of animals and unauthorized persons. At the time of application, the stored residuals must meet the parameter concentrations, pathogen and vector attraction reduction requirements, and cumulative application limits of this permit. Residuals storage facilities at land application sites may be used only for temporary storage of stabilized residuals for no more than 30 days during periods of inclement weather or to accommodate agricultural operations, or up to the period (not to exceed two years) specified in the Agricultural Use Plan. [62-640.700(2)(e)]
 31. Residuals application sites shall be posted with appropriate advisory signs identifying the nature of the project area. [62-640.700(2)(f)]
 32. The pH of the residuals soil mixture shall be 5.0 or greater at the time residuals are applied. At a minimum, soil pH testing shall be done annually. [62-640.700(5)(d)]
 33. The permittee shall maintain records of application zones and application rates and shall make these records available for inspection within seven days of request by the Department, or delegated Local Program. The permittee shall maintain record items a. through e. below in perpetuity, and maintain record items f. through k. for five years:

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- a. Date of application of the residuals;
 - b. Location of the residuals application site as specified in the Agricultural Use Plan;
 - c. Identification of each application zone used by the permittee at the application site and the acreage of each zone;
 - d. Amount of residuals applied or delivered to each application zone;
 - e. Cumulative loading of each application zone;
 - f. The names of all other wastewater facilities using each of the application zones identified in item c.;
 - g. Method of incorporation (if any);
 - h. Measured pH of the residuals soil mixture at the time the residuals are applied (tested at least annually);
 - i. Unsaturated depth of soil above the water table level at the time of application;
 - j. Concentration of parameters in the residuals as required by this permit, and the date of last analysis; and
 - k. The results of any soil testing that is done under Rule 62-640.500(4)(a), F.A.C. [62-640.650(2)]
34. The permittee shall submit an annual summary of residuals application activity to the Environmental Protection Commission of Hillsborough County District Office on Department Form 62-640.210(2)(b) for all residuals applied during the period of January 1 through December 31. The summary for each year shall be submitted by February 19 of the following year. If more than one facility applies residuals to the same application zones, the summary must include a subtotal of each facility's contribution of residuals to the application zones. [62-640.650(3)(b)]
35. If residuals that are subject to the cumulative loading limitations of Rule 62-640.700(3), F.A.C., have been applied to an application zone, and the cumulative loading amount of one or more of the pollutants is not known, no further applications of residuals may be made to that application zone. [62-640.700(3)(f)]
36. A minimum unsaturated soil depth of two feet above the water table level is required at the time the residuals are applied to the soil. [62-640.700(6)(a)]
37. Residuals shall not be applied during rains that cause runoff from the site or when surface soils are saturated. [62-640.700(7)(a)]
38. Land application of "other solids" as defined in Chapter 62-640, F.A.C., is only allowed if specifically addressed in the Agricultural Use Plan(s) approved for this facility. Land application of "other solids" is subject to Chapter 62-640, F.A.C., and the permit conditions that apply to land applied residuals. [62-640.860]
39. If the permittee intends to accept residuals from other facilities, a permit revision is required pursuant to Rule 62-640.880(2)(d), F.A.C. [62-640.880(2)(d)]
40. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department. [62-640.300(4)]

II. Industrial Sludge Management Requirements

A. Basic Management Requirements

1. This permit does not authorize disposal of any sludge or solids generated within the power plant. Separate approval of the Department shall be required for on-site or off-site disposal of such material.

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2. Disposal of sludge in a solid waste management facility permitted by the Department shall be in accordance with the requirements of Chapter 62-701, F.A.C. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in compliance with requirements of Chapter 62-730, F.A.C.
3. The permittee shall keep records of the amount of sludge or residuals disposed, transported, or incinerated. If a person other than the permittee is responsible for sludge transporting, disposal, or incineration, the permittee shall also keep the following records:
 - a. name, address and telephone number of any transporter, and any manifests or bill of lading used;
 - b. name and location of the site of disposal, treatment or incineration;
 - c. name, address, and telephone number of the entity responsible for the disposal, treatment, or incineration site.

III. Ground Water Monitoring Requirements

A. Operational Requirements

1. During the period of operation authorized by this permit, the permittee shall continue to sample ground water at the existing monitoring wells identified in item III.A.2, 5 below, in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-522.600, F.A.C.
2. The following monitoring wells shall be sampled for Industrial Wastewater Ponds #1-4, Land Application System G-001:

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Depth (Feet)	Aquifer Monitored	New or Existing
MWC-1	Located near the northwest corner of IW Pond # 1.	26.0	Surficial	Existing
MWC-2	Located north between Pond #2 and Pond #3.	32.0	Surficial	Existing
MWB-7	Located east of U.S. Highway 41.	14.0	Surficial	Existing
MWI-9	Located south between Pond #2 and Pond #3.	15.0	Surficial	Existing
MWI-12	Located near the southeast portion of Pond #1.	12.0	Surficial	Existing
MWI-23	Located near the IMC Stormwater Pond next to Bayside Power Station.	11.0	Surficial	Existing
MWC-18	Located north of IW Pond # 2.	16.0	Surficial	Existing
MWC-25	Located north of IW Pond #3.	16.5	Surficial	Existing
MWC-26	Located between IW Pond #3 and Pond #4.	13.5	Surficial	Existing

MWB = Background; MWI = Intermediate; MWC = Compliance; MWP = Piezometer

3. The monitor wells specified in Condition III.A.2 shall be sampled for the parameters listed below:

Parameter Name	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Arsenic, Total Recoverable	10	MG/L	Grab	Quarterly
Chloride (as Cl)	Report	MG/L	Grab	Quarterly
Specific Conductance	Report	UMHOS/C M	In-situ	Quarterly
Turbidity	Report	NTU	In-situ	Quarterly
Water Level Relative to NGVD	Report	FEET	In-situ	Quarterly
Solids, Total Dissolved (TDS)	Report	MG/L	Grab	Quarterly
pH	Report	SU	In-situ	Quarterly

Parameter Name	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Nitrogen, Nitrate, Total (as N)	10	MG/L	Grab	Quarterly
Nitrogen, Nitrite, Total (as N)	1	MG/L	Grab	Quarterly
Sodium, Total Recoverable	Report	MG/L	Grab	Quarterly
Alpha, Gross Particle Activity	15	PCI/L	Grab	Quarterly
Temperature	Report	Fahrenheit	In-situ	Quarterly
*Radium 226+228, Total	5	PCI/L	Grab	Quarterly

* The permittee shall sample and monitor for radium 226 and 228 for one year. This parameter shall also be monitored in the groundwater monitoring wells under Permit Condition III.A.2. If the levels in the compliance wells indicate levels meeting the drinking water standards listed under Chapter 62.550, F.A.C., the permittee may submit to the Department a request to discontinue monitoring of this parameter under the effluent and groundwater requirements.

- For the land application systems for G-001, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally along the ground surface 100 feet from the edge of the pollution source or to the permittee's property boundary, whichever is less, and vertically to the base of the surficial aquifer.
- The following monitoring wells shall be sampled for Former Sprayfields, Land Application System G-001:

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Depth (Feet)	Aquifer Monitored	New or Existing
MWC-4	Located at former sprayfield.	15.0	Surficial	Existing
MWC-5	Located at former sprayfield.	17.0	Surficial	Existing
MWC-6	Located at former sprayfield.	7.0	Surficial	Existing

MWB = Background; MWI = Intermediate; MWC = Compliance; MWP = Piezometer

- The monitor wells specified in Condition III.A.5 shall be sampled for the parameters listed below*:

Parameter Name	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Arsenic, Total Recoverable	10	UG/L	Grab	Semiannually
Sodium, Total Recoverable	160	MG/L	Grab	Semiannually
Chloride (as Cl)	Report	MG/L	Grab	Semiannually
Alpha, Gross Particle Activity	15	PCI/L	Grab	Semiannually
Solids, Total Dissolved (TDS)	Report	MG/L	Grab	Semiannually
Water Level Relative to NGVD	Report	FEET	In-situ	Semiannually
pH	Report	SU	In-situ	Semiannually
Specific Conductance	Report	UMHOS/C M	In-situ	Semiannually
Turbidity	Report	NTU	In-situ	Semiannually
Temperature	Report	Fahrenheit	In-situ	Semiannually

* The facility will continue to monitor and sample for the above referenced parameters on the old sprayfield on a semi-annual basis until levels are well below the maximum contaminant level (MCL) listed in Chapter 62-550, F.A.C. Once levels are below the MCL, the permittee may request for monitoring and sampling of the old sprayfield to be discontinued.

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7. For the land application systems for G-001, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally along the ground surface 100 feet from the edge of the pollution source or to the permittee's property boundary, whichever is less, and vertically to the base of the surficial aquifer.
8. The permittee's discharge to ground water shall not cause a violation of water quality standards for ground waters at the boundary of the zone of discharge in accordance with Rules 62-520.400 and 62-520.420, F.A.C.
9. The permittee's discharge to ground water shall not cause a violation of the minimum criteria for ground water specified in Rule 62-520.400, F.A.C., within the zone of discharge.
10. If the concentration for any constituent listed in Permit Condition III.A.3, 6 in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative natural background quality shall be the prevailing standard.
11. Water levels shall be recorded prior to evacuating the well for sample collection. Measurements, referenced to NGVD, shall include the top of the well casing, depth to ground water, and calculated ground water elevation at a precision of plus or minus 0.01 feet.
12. Ground water monitoring wells shall be purged prior to sampling to obtain a representative sample.
13. Analyses shall be conducted on un-filtered samples, unless filtered samples have been approved by the Department as being more representative of ground water conditions.
14. If a monitoring well becomes damaged or cannot be sampled for some reason, the permittee shall notify the Department immediately and a written report shall follow within seven days detailing the circumstances and remedial measures taken or proposed. Repair or replacement of monitoring wells shall be approved in advance by the Department.
15. All piezometers and wells not part of the approved ground water monitoring plan are to be plugged and abandoned in accordance with Rule 62-532.500(4), F.A.C., unless there is intent for their future use.
16. The permittee shall provide verbal notice to the Department as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater or sludge. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department in a written report within 7 days of the sinkhole discovery.
17. Ground water monitoring test results shall be submitted on Part D of DEP Form 62-620.910(10) (attached) and shall be submitted to the address specified in I.E.3. Results shall be submitted with the DMR for each month listed in the following schedule.

SAMPLE PERIOD	REPORT DUE DATE
January - June	July 28
July - December	January 28

IV. Additional Reuse and Land Application Requirements (*Domestic Wastewater*)

1. Reclaimed water shall not be used in the manufacture or processing of food or beverage for human consumption where the reclaimed water will be incorporated into or come into contact with the food or beverage product. [62-610.650(4)]
2. Advisory signs shall be posted around the portion of the industrial site in which reclaimed water is used and at the main entrances to the industrial site to notify employees at the industrial site and the public of the nature of the reclaimed water use. [62-610.658(1)]

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3. Cross-connections to the potable water system are prohibited. [62-610.660(1)]
4. There shall be readily identifiable "non-potable" or "do not drink" notices, marking, or coding on application/distribution facilities and appurtenances. [62-610.660(2)]
5. The return of reclaimed water to the reclaimed water distribution system after it has been delivered to the industrial facility is prohibited. [62-610.660(3)]

V. Operation and Maintenance Requirements

A. Operation of Treatment and Disposal Facilities for Industrial Wastewater

1. The permittee shall ensure that the operation of this facility is as described in the application and supporting documents.
2. The operation of the pollution control facilities described in this permit shall be under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control.

B. Operation of Treatment and Disposal Facilities for Domestic Wastewater

1. During the period beginning upon placing the new facilities into operation and lasting through the expiration date of this permit, the wastewater facilities shall be operated under the supervision of a(n) operator(s) certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category III, Class D facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class D or higher operator for 2 nonconsecutive visits/week for 1 hour/week. The lead operator must be a Class D operator, or higher. [62-620.630(3)] [62-699.310] [62-610.462]

2. An operator meeting the lead operator classification level of the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. Daily checks of the plant shall be performed by the permittee or his representative or agent 5 days per week. On those days when the facility is not staffed by a certified operator, the permittee shall ensure that Flow, pH, Total Residual Chlorine (For Disinfection) are monitored in accordance with Part I of this permit. [62-699.311(1)]
3. The application to renew the industrial wastewater permit shall include an updated capacity analysis report for the domestic wastewater treatment plant prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5)]
4. The application to renew this industrial wastewater permit shall include a detailed operation and maintenance performance report for the domestic wastewater treatment plant prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1)]
5. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility:
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;

- b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
- c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
- d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
- e. A copy of the current permit;
- f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
- g. A copy of the facility record drawings;
- h. Copies of the licenses of the current certified operators; and
- i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and certification number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities; tests performed and samples taken; and major repairs made. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed.

B. Record keeping Requirements:

1. The permittee shall maintain the following records on the site of the permitted facility and make them available for inspection:
 - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
 - b. Copies of all reports, other than those required in items a. and f. of this section, required by the permit for at least three years from the date the report was prepared, unless otherwise specified by Department rule;
 - c. Records of all data, including reports and documents used to complete the application for the permit for at least three years from the date the application was filed, unless otherwise specified by Department rule;
 - d. A copy of the current permit;
 - e. A copy of any required record drawings;
 - f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date on the logs or schedule.

VI. Schedules

1. A Best Management Practices (BMP) Plan shall be prepared and implemented in accordance with Part VII of this permit and the following schedule:

Action Item		Scheduled Completion Date
1	Update BMP Plan, including entire operation not just the sprayfield.	Issuance Date of Permit + 6 months.
2	Implement updated BMP Plan.	Issuance Date of Permit + 18 months.
3	Update the current revised groundwater monitoring plan (GWMP) and submit to the Department.	Within sixty (60) days of permit issuance.
4	Inactivate Domestic Wastewater Permit with the Hillsborough Environmental Protection Commission.	Within thirty (30) days of permit issuance.

2. The permittee shall achieve compliance with the other conditions of this permit as follows:

Operational level attained Issuance Date of permit

3. No later than 14 calendar days following a date identified in the above schedule(s) of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by an identified date, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.
4. A compliance schedule for this facility is included in Item III.1-12 of Administrative Order AO-094-SW that is hereby incorporated by reference. The permittee shall comply with the terms and conditions of Order Number AO-094-SW.

VII. Other Specific Conditions

A. Specific Conditions Applicable to All Permits

1. Drawings, plans, documents or specifications submitted by the permittee, not attached hereto, but retained on file at the Southwest District Office, are made a part hereof.
2. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of reports to be submitted under this permit, shall be signed and sealed by the professional(s) who prepared them.
3. This permit satisfies Industrial Wastewater program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by local, state or federal agencies.

B. Specific Conditions Related to Construction

1. This section is not applicable to this facility.

C. Duty to Reapply

1. The permittee shall submit an application to renew this permit at least 180 days before the expiration date of this permit.

2. The permittee shall apply for renewal of this permit on the appropriate form listed in Rule 62-620.910, F.A.C., and in the manner established in Chapter 62-620, F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.
3. An application filed in accordance with subsections 1. and 2. of this part shall be considered timely and sufficient. When an application for renewal of a permit is timely and sufficient, the existing permit shall not expire until the Department has taken final action on the application for renewal or until the last day for seeking judicial review of the agency order or a later date fixed by order of the reviewing court.
5. The late submittal of a renewal application shall be considered timely and sufficient for the purpose of extending the effectiveness of the expiring permit only if it is submitted and made complete before the expiration date.

D. Specific Conditions Related to Best Management Practices

1. **BMP Plan:**

For purposes of this part, the terms "pollutant" or "pollutants" refer to any substance listed as toxic under Section 307(a)(1) of the Clean Water Act (the "Act"), oil, as defined in Section 311(a)(1) of the Act, and any substance listed as hazardous under Section 311 of the Act. The permittee shall develop and implement a Best Management Practices (BMP) plan which prevents, or minimizes, the potential for the release of pollutants from ancillary activities, including material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations; and sludge and waste disposal areas, to the waters of the State through plant site runoff; spillage or leaks; sludge or waste disposal; or drainage from raw material storage.

2. **Implementation:**

The BMP plan shall be developed and implemented in accordance with the schedule contained in Part VI of this permit.

3. **General Requirements:**

The BMP plan shall:

- a. Be documented in narrative form, and shall include any necessary plot plans, drawings or maps.
- b. Establish specific objectives for the control of pollutants.
 - (1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.
 - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural conditions (e.g., precipitation), or other circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
- c. Establish specific best management practices to meet the objectives identified under paragraph (b) of this subsection, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented.
- d. Be reviewed by plant engineering staff and plant manager.

4. **Documentation:**

The permittee shall maintain the BMP plan at the facility and shall make the plan available to the Department upon request.

5. **BMP Plan Modification:**

The permittee shall amend the BMP plan whenever there is a change in the facility or change in the operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.

6. **Modification for Ineffectiveness:**

If the BMP plan proves to be ineffective in achieving the general objective of preventing the release of significant amounts of pollutants to surface waters and the specific objectives and requirements under paragraphs (b) and (c) of item 3, the permit shall be subject to modification pursuant to rule 62-620.325, F.A.C., to incorporate revised BMP requirements.

E. Specific Conditions Related to Existing Manufacturing, Commercial, Mining, and Silviculture Wastewater Facilities or Activities

1. Existing manufacturing, commercial, mining, and silvicultural wastewater facilities or activities that discharge into surface waters shall notify the Department as soon as they know or have reason to believe:
 - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels
 - (1) One hundred micrograms per liter,
 - (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony, or
 - (3) Five times the maximum concentration value reported for that pollutant in the permit application.
 - b. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels
 - (1) Five hundred micrograms per liter,
 - (2) One milligram per liter for antimony, or
 - (3) Ten times the maximum concentration value reported for that pollutant in the permit application.

F. Reopener Clause

1. The permit shall be revised, or alternatively, revoked and reissued in accordance with the provisions contained in Rules 62-620.325 and 62-620.345 F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standards, limitations, or water quality standards so issued or approved:
 - a. Contains different conditions or is otherwise more stringent than any condition in the permit/or;
 - b. Controls any pollutant not addressed in the permit.

The permit as revised or reissued under this paragraph shall contain any other requirements then applicable.

PERMITTEE: Tampa Electric Company
FACILITY: H.L. Culbreath Bayside Power Station

PERMIT NUMBER: FLA184713-006-IWIN

2. The permit may be reopened to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, or other information show a need for a different limitation or monitoring requirement.
3. The Department may develop a Total Maximum Daily Load (TMDL) during the life of the permit. Once a TMDL has been established and adopted by rule, the Department shall revise this permit to incorporate the final findings of the TMDL.

G. Specific Conditions for the Domestic Wastewater Treatment Plant

1. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility. *[62-610.850(1)(a) and (2)(a)][62-640.700(2)(b)]*
2. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. *[62-600.410(8) and 62-640.400(6)]*
3. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C. *[62-604.130(3)]*
4. Collection/transmission system overflows shall be reported to the Commission in accordance with Permit Condition IX. 20. *[62-604.550] [62-620.610(20)]*
5. The operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
 - a. Which may cause fire or explosion hazards; or
 - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
 - c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
 - d. Which result in treatment plant discharges having temperatures above 40°C. *[62-604.130(4)]*
7. The treatment facility, storage ponds, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. *[62-600.400(2)(b)]*
8. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. *[62-701.300(1)(a)]*

VIII. General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, F.S. Any permit noncompliance constitutes a violation of Chapter 403, F.S., and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. *[62-620.610(1), F.A.C.]*
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. *[62-620.610(2), F.A.C.]*
3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringements of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. *[62-620.610(3), F.A.C.]*
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. *[62-620.610(4), F.A.C.]*
5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. *[62-620.610(5), F.A.C.]*
6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. *[62-620.610(6), F.A.C.]*
7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. *[62-620.610(7), F.A.C.]*
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. *[62-620.610(8), F.A.C.]*
9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to
 - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
 - b. Have access to and copy any records that shall be kept under the conditions of this permit;
 - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
 - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules. *[62-620.610(9), F.A.C.]*

PERMITTEE: Tampa Electric Company
FACILITY: H.L. Culbreath Bayside Power Station

PERMIT NUMBER: FLA184713-006-IW1N

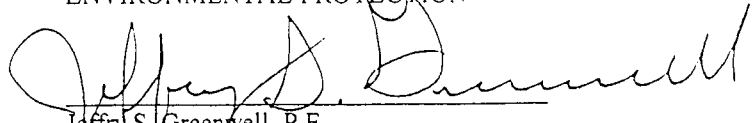
10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10), F.A.C.]*
11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), F.A.C.]*
12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12), F.A.C.]*
13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. *[62-620.610(13), F.A.C.]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the Department approves the transfer. *[62-620.610(14), F.A.C.]*
15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15), F.A.C.]*
16. The permittee shall apply for a revision to the Department permit in accordance with Rule 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Wastewater Permitting at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16), F.A.C.]*
17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
 - a. A description of the anticipated noncompliance;
 - b. The period of the anticipated noncompliance, including dates and times; and
 - c. Steps being taken to prevent future occurrence of the noncompliance. *[62-620.610(17), F.A.C.]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
 - a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).
 - b. If the permittee monitors any contaminate more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

- c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
 - d. Any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health (DOH) under Chapter 64E-1, F.A.C., where such certification is required by Rule 62-160.300(4), F.A.C. The laboratory must be certified for any specific method and analyte combination that is used to comply with this permit. For domestic wastewater facilities, the on-site test procedures specified in Rule 62-160.300(4), F.A.C., shall be performed by a laboratory certified test for those parameters or under the direction of an operator certified under Chapter 62-602, F.A.C.
 - e. Fields activities including on-site tests and sample collection, whether performed by a laboratory or a certified operator, must follow the applicable procedures described in DEP-SOP-001/01 (January 2002). Alternate field procedures and laboratory methods may be used where they have been approved according to the requirements of Rules 62-160.220, 62-160.330, and 62-160.600, F.A.C. [62-620.610(18), F.A.C.]
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19), F.A.C.]
20. The permittee shall report to the Department's Southwest District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- a. The following shall be included as information which must be reported within 24 hours under this condition:
 - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - (4) Any unauthorized discharge to surface or ground waters.
 - b. Oral reports as required by this subsection shall be provided as follows:
 - (1) For unauthorized releases or spills of untreated or treated wastewater reported pursuant to subparagraph a.4 that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
 - (a) Name, address, and telephone number of person reporting;
 - (b) Name, address, and telephone number of permittee or responsible person for the discharge;
 - (c) Date and time of the discharge and status of discharge (ongoing or ceased);
 - (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - (e) Estimated amount of the discharge;
 - (f) Location or address of the discharge;
 - (g) Source and cause of the discharge;
 - (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - (i) Description of area affected by the discharge, including name of water body affected, if any; and
 - (j) Other persons or agencies contacted.
 - (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b(1) above, shall be provided to Department's Southwest District Office within 24 hours from the time the permittee becomes aware of the circumstances.
 - c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Southwest District Office shall waive the written report. [62-620.610(20), F.A.C.]

21. The permittee shall report all instances of noncompliance not reported under Conditions VIII. 18 and 19 of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Condition VIII. 20. of this permit. [62-620.610(21), F.A.C.]
22. Bypass Provisions.
- a. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
 - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
 - (3) The permittee submitted notices as required under Condition VIII.22.b. of this permit.
 - b. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Condition VIII.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
 - c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Condition VIII.22 a. (1) through (3) of this permit.
 - d. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of Condition VIII.22.a. through c. of this permit. [62-620.610(22), F.A.C.]
23. Upset Provisions
- a. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
 - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (2) The permitted facility was at the time being properly operated;
 - (3) The permittee submitted notice of the upset as required in Condition VIII.20. of this permit; and
 - (4) The permittee complied with any remedial measures required under Condition VIII.5. of this permit.
 - b. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.
 - c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review. [62-620.610(23), F.A.C.]

Executed in Tampa.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION


Jeffrey S. Greenwell, P.E.
Water Facilities Administrator
Southwest District

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Compliance Evaluation Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

PERMITTEE NAME: Tampa Electric Company
 MAILING ADDRESS: P.O. Box 111
 Tampa, FL 33601-0111

PERMIT NUMBER: FLA184713

LIMIT: Final
 CLASS SIZE:

REPORT: Monthly
 GROUP: Industrial

FACILITY: Tampa Electric Company-Culbreath Bayside Power Station
 LOCATION: 3602 Port Sutton Road
 Tampa, FL 33619

MONITORING GROUP NUMBER: G-001
 MONITORING GROUP DESC: Series Pond System

COUNTY: Hillsborough

NO DISCHARGE FROM SITE:
 MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading	Units	Quality or Concentration	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement							
ARM Code 50050 I Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	MGD				Monthly	Calculated
Solids, Total Suspended	Sample Measurement							
ARM Code 00530 P Mon. Site No. LAL-1	Permit Requirement			Report (Day.Max.)	MG/L		Monthly	Grab
Nitrogen, Total	Sample Measurement							
ARM Code 00600 P Mon. Site No. LAL-1	Permit Requirement			Report (Day.Max.)	MG/L		Monthly	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement							
ARM Code 00620 P Mon. Site No. LAL-1	Permit Requirement			Report (Day.Max.)	MG/L		Monthly	Grab
Chloride (as Cl)	Sample Measurement							
ARM Code 00940 P Mon. Site No. LAL-1	Permit Requirement			Report (Day.Max.)	MG/L		Monthly	Grab
Arsenic, Total Recoverable	Sample Measurement							
ARM Code 00978 P Mon. Site No. LAL-1	Permit Requirement			Report (Day.Max.)	MG/L		Monthly	Grab

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Tampa Electric Company-Culbreath Bayside Power Station

MONITORING GROUP NUMBER: G-001

PERMIT NUMBER: FLA184713

MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading	Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Barium, Total Recoverable PARM Code 01009 P Mon. Site No. LAL-1	Sample Measurement								
	Permit Requirement				Report (Day.Max.)	MG/L		Monthly	Grab
Fluoride, Total (as F) PARM Code 00951 P Mon. Site No. LAL-1	Sample Measurement								
	Permit Requirement				Report (Day.Max.)	MG/L		Monthly	Grab
Nickel, Total Recoverable PARM Code 01074 P Mon. Site No. LAL-1	Sample Measurement								
	Permit Requirement				Report (Day.Max.)	MG/L		Monthly	Grab
Thallium, Total Recoverable PARM Code 00982 P Mon. Site No. LAL-1	Sample Measurement								
	Permit Requirement				Report (Day.Max.)	MG/L		Monthly	Grab
Sodium, Total Recoverable PARM Code 00923 P Mon. Site No. LAL-1	Sample Measurement								
	Permit Requirement				Report (Day.Max.)	MG/L		Monthly	Grab
pH PARM Code 00400 P Mon. Site No. LAL-1	Sample Measurement								
	Permit Requirement				Report (Day.Min.)	Report (Day.Max.)	SU	Monthly	Grab
Solids, Total Dissolved (TDS) PARM Code 70295 P Mon. Site No. LAL-1	Sample Measurement								
	Permit Requirement				Report (Day.Max.)	MG/L		Monthly	Grab
Alpha, Gross Particle Activity PARM Code 80045 P Mon. Site No. LAL-1	Sample Measurement								
	Permit Requirement				Report (Day.Max.)	PCI/L		Monthly	Grab
Carbon, Total Organic (TOC) PARM Code 00680 P Mon. Site No. LAL-1	Sample Measurement								
	Permit Requirement				Report (Day.Max.)	MG/L		Monthly	Grab
Radium 226+228, Total PARM Code 11503 P Mon. Site No. LAL-1	Sample Measurement								
	Permit Requirement				Report (Day.Max.)	PCI/L		Monthly	Grab

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-1
 Well Type: _____
 Ground Water Class: _____

From: _____ To: _____

Was the well pumped before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Sodium, Total Recoverable	00923		Report	MG/L	Single Sample	Quarterly				
Alpha, Gross Particle Activity	80045		15	PC/L	Single Sample	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Single Sample	Quarterly				
Specific Conductance	00095		Report	UMHOS/CM	Single Sample	Quarterly				
Turbidity	00700		Report	NTU	Single Sample	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Quarterly				
pH	00400		Report	SU	Single Sample	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	MG/L	Single Sample	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1	MG/L	Single Sample	Quarterly				
Arsenic, Total Recoverable	00978		10	UG/L	Single Sample	Quarterly				
Temperature	00011		Report	F	Single Sample	Quarterly				
Radium 226+228, Total	11503		5	PC/L	Single Sample	Quarterly				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (yy/mm/dd)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-2
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Sodium, Total Recoverable	00923		Report	MG/L	Single Sample	Quarterly				
Alpha, Gross Particle Activity	80045		15	PCI/L	Single Sample	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Single Sample	Quarterly				
Specific Conductance	00095		Report	UMHOS/CM	Single Sample	Quarterly				
Turbidity	00700		Report	NTU	Single Sample	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Quarterly				
pH	00400		Report	SU	Single Sample	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	MG/L	Single Sample	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1	MG/L	Single Sample	Quarterly				
Arsenic, Total Recoverable	00978		10	UG/L	Single Sample	Quarterly				
Temperature	00011		Report	F	Single Sample	Quarterly				
Radium 226+228, Total	11503		5	PCI/L	Single Sample	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period

Date Sample Obtained: _____
 Monitoring Location Site Number: MWB-7
 Well Type: _____
 Ground Water Class: _____

From: _____ To: _____

Was the well pumped before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Sodium, Total Recoverable	00923		Report	MG/L	Single Sample	Quarterly				
Alpha, Gross Particle Activity	80045		Report	PCI/L	Single Sample	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Single Sample	Quarterly				
Specific Conductance	00095		Report	UMHOS/CM	Single Sample	Quarterly				
Turbidity	00700		Report	NTU	Single Sample	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Quarterly				
pH	00400		Report	SU	Single Sample	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	MG/L	Single Sample	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		Report	MG/L	Single Sample	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Single Sample	Quarterly				
Temperature	00011		Report	F	Single Sample	Quarterly				
Radium 226+228, Total	11503		Report	PCI/L	Single Sample	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWI-9
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Sodium, Total Recoverable	00923		Report	MG/L	Single Sample	Quarterly				
Alpha, Gross Particle Activity	80045		Report	PC/L	Single Sample	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Single Sample	Quarterly				
Specific Conductance	00095		Report	UMHOS/CM	Single Sample	Quarterly				
Turbidity	00700		Report	NTU	Single Sample	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Quarterly				
pH	00400		Report	SU	Single Sample	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	MG/L	Single Sample	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		Report	MG/L	Single Sample	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Single Sample	Quarterly				
Temperature	00011		Report	F	Single Sample	Quarterly				
Radium 226+228, Total	11503		Report	PC/L	Single Sample	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWI-12
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Sodium, Total Recoverable	00923		Report	MG/L	Single Sample	Quarterly				
Alpha, Gross Particle Activity	80045		Report	PC/L	Single Sample	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Single Sample	Quarterly				
Specific Conductance	00095		Report	UMHOS/CM	Single Sample	Quarterly				
Turbidity	00700		Report	NTU	Single Sample	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Quarterly				
pH	00400		Report	SU	Single Sample	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	MG/L	Single Sample	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		Report	MG/L	Single Sample	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Single Sample	Quarterly				
Temperature	00011		Report	F	Single Sample	Quarterly				
Radium 226+228, Total	11503		Report	PC/L	Single Sample	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWI-23
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Sodium, Total Recoverable	00923		Report	MG/L	Single Sample	Quarterly				
Alpha, Gross Particle Activity	80045		Report	PCI/L	Single Sample	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Single Sample	Quarterly				
Specific Conductance	00095		Report	UMHOS/CM	Single Sample	Quarterly				
Turbidity	00700		Report	NTU	Single Sample	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Quarterly				
pH	00400		Report	SU	Single Sample	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	MG/L	Single Sample	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		Report	MG/L	Single Sample	Quarterly				
Arsenic, Total Recoverable	00978		Report	UG/L	Single Sample	Quarterly				
Temperature	00011		Report	F	Single Sample	Quarterly				
Radium 226+228, Total	11503		Report	PCI/L	Single Sample	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-18
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Sodium, Total Recoverable	00923		Report	MG/L	Single Sample	Quarterly				
Alpha, Gross Particle Activity	80045		15	PCI/L	Single Sample	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Single Sample	Quarterly				
Specific Conductance	00095		Report	UMHOS/CM	Single Sample	Quarterly				
Turbidity	00700		Report	NTU	Single Sample	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Quarterly				
pH	00400		Report	SU	Single Sample	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	MG/L	Single Sample	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1	MG/L	Single Sample	Quarterly				
Arsenic, Total Recoverable	00978		10	UG/L	Single Sample	Quarterly				
Temperature	00011		Report	F	Single Sample	Quarterly				
Radium 226+228, Total	11503		5	PCI/L	Single Sample	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-25
 Well Type: _____
 Ground Water Class: _____

From: _____ To: _____

Was the well pumped before sampling? Yes No

Parameter	PARAM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Sodium, Total Recoverable	00923		Report	MG/L	Single Sample	Quarterly				
Alpha, Gross Particle Activity	80045		15	PC/L	Single Sample	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Single Sample	Quarterly				
Specific Conductance	00095		Report	UMHOS/CM	Single Sample	Quarterly				
Turbidity	00700		Report	NTU	Single Sample	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Quarterly				
pH	00400		Report	SU	Single Sample	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	MG/L	Single Sample	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1	MG/L	Single Sample	Quarterly				
Arsenic, Total Recoverable	00978		10	UG/L	Single Sample	Quarterly				
Temperature	00011		Report	F	Single Sample	Quarterly				
Radium 226+228, Total	11503		5	PC/L	Single Sample	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

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GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period

From: _____ To: _____

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-26
 Well Type: _____
 Ground Water Class: _____

Was the well pumped before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Sodium, Total Recoverable	00923		Report	MG/L	Single Sample	Quarterly				
Alpha, Gross Particle Activity	80045		15	PC/L	Single Sample	Quarterly				
Chloride (as Cl)	00940		Report	MG/L	Single Sample	Quarterly				
Specific Conductance	00095		Report	UMHOS/CM	Single Sample	Quarterly				
Turbidity	00700		Report	NTU	Single Sample	Quarterly				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Quarterly				
pH	00400		Report	SU	Single Sample	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	MG/L	Single Sample	Quarterly				
Nitrogen, Nitrite, Total (as N)	00615		1	MG/L	Single Sample	Quarterly				
Arsenic, Total Recoverable	00978		10	UG/L	Single Sample	Quarterly				
Temperature	00011		Report	F	Single Sample	Quarterly				
Radium 226+228, Total	11503		5	PC/L	Single Sample	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-4
 Well Type: _____
 Ground Water Class: _____

From: _____ To: _____

Was the well pumped before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Semiannually				
Sodium, Total Recoverable	00923		160	MG/L	Single Sample	Semiannually				
Chloride (as Cl)	00940		Report	MG/L	Single Sample	Semiannually				
AlpHa, Gross Particle Activity	80045		15	PC/L	Single Sample	Semiannually				
Arsenic, Total Recoverable	00978		10	UG/L	Single Sample	Semiannually				
Specific Conductance	00095		Report	UMHOS/CM	Single Sample	Semiannually				
Turbidity	00700		Report	NTU	Single Sample	Semiannually				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Semiannually				
pH	00400		6.5-8.5	SU	Single Sample	Semiannually				
Temperature	00011		Report	F	Single Sample	Semiannually				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Tampa Electric Company-Culbreath Bayside Power Station
 Permit Number: FLA184713
 County: Hillsborough
 Monitoring Period

Date Sample Obtained: _____
 Monitoring Location Site Number: MWC-6
 Well Type:
 Ground Water Class:

From: _____ To: _____

Was the well pumped before sampling? Yes No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Statistical Base Code	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
solids, Total Dissolved (TDS)	70295		Report	MG/L	Single Sample	Semiannually				
odium, Total Recoverable	00923		160	MG/L	Single Sample	Semiannually				
hloride (as Cl)	00940		Report	MG/L	Single Sample	Semiannually				
lpha, Gross Particle Activity	80045		15	PC/L	Single Sample	Semiannually				
rsenic, Total Recoverable	00978		10	UG/L	Single Sample	Semiannually				
pecific Conductance	00095		Report	UMHOS/CM	Single Sample	Semiannually				
urbidity	00700		Report	NTU	Single Sample	Semiannually				
Water Level Relative to NGVD	82545		Report	FEET	Single Sample	Semiannually				
H	00400		6.5-8.5	SU	Single Sample	Semiannually				
emperature	00011		Report	F	Single Sample	Semiannually				

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions as well as the SUPPLEMENTAL INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data. When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign (" $<$ ") followed by the laboratory's MDL value, e.g. < 0.001 . A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units.

Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

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ART B - DAILY SOLUBLE LEAD RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-50, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

Divide the results to get the Total and divide by the number of days in the month to get the Monthly Average.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

ART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Wastewater Facilities Management Section, MS 3551, 2600 Blair Stone Road, Tallahassee, FL 32399-2400

Environmental Protection Commission of Hillsborough County – Water Management Division, 1900 9th Avenue, Tampa, Florida 33605

PERMITTEE NAME:	Tampa Electric Company	PERMIT NUMBER:	FLA184713		
MAILING ADDRESS:	Post Office Box 111 Tampa, FL 33601-0111	LIMIT:	Final	REPORT:	Monthly
FACILITY:	Tampa Electric Co. – H.L. Culbreath Bayside Power Station WWTP	CLASS SIZE:	N/A	GROUP:	Domestic
LOCATION:	Port Sutton Road & U.S. Hwy 41 Tampa, FL 33619	MONITORING GROUP NUMBER:	R-001 and Influent		
COUNTY:	Hillsborough	NO DISCHARGE FROM SITE:	NO DISCHARGE FROM SITE:		
		MONITORING PERIOD	From: _____	To	_____

Parameter	Sample Measurement	Quantity or Loading		Units	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
Flow, in conduit or thru treatment plant	Sample Measurement									
ARM Code 50050 I on.Site No. EFF-02	Permit Requirement	0.005 (3-Mo.Avg.)	Report (Mo.Avg.)	mgd					5 Days/Week	Flow meter
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement									
ARM Code 00180 on.Site No. EFF-02	Permit Requirement				Report (Mo.Total)		%		Monthly	Calculated
OD, Carbonaceous 5 day, 20C	Sample Measurement									
ARM Code 80082 Y on.Site No. EFF-01	Permit Requirement				20.0 (An.Avg.)		mg/l		Monthly	Grab
OD, Carbonaceous 5 day, 20C	Sample Measurement									
ARM Code 80082 I on.Site No. EFF-01	Permit Requirement				30.0 (Mo.Avg.)	60.0 (Max.)	mg/l		Monthly	Grab
Slids, Total Suspended	Sample Measurement									
ARM Code 00530 Y on.Site No. EFF-01	Permit Requirement				20.0 (An.Avg.)		mg/l		Monthly	Grab

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein; and based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted 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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (YY/MM/DD)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

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DISCHARGE MONITORING REPORT - PART A (Continued)

CILITY NAME: Tampa Electric Co. -- H.L. Culbreath Bayside Power Station WWTP PERMIT NUMBER: FLA184713 MONITORING GROUP No.: R-001 and Influent
 MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended RM Code 00530 I n.Site No. EFF-01	Sample Measurement										
	Permit Requirement				30.0 (Mo.Avg.)	60.0 (Max.)		mg/l		Monthly	Grab
RM Code 00400 I n.Site No. EFF-01	Sample Measurement										
	Permit Requirement				6.0 (Min.)	8.5 (Max.)		s.u.		5 Days/Week	Grab
Uniform, Fecal RM Code 74055 Y n.Site No. EFF-01	Sample Measurement										
	Permit Requirement				200 (An.Avg.)			#/100ml		Monthly	Grab
Uniform, Fecal RM Code 74055 I n.Site No. EFF-01	Sample Measurement										
	Permit Requirement				Report (Mo.Median)	800 (Max.)		#/100ml		Monthly	Grab
Total Residual Chlorine (For infection) RM Code 50060 A n.Site No. EFF-01	Sample Measurement										
	Permit Requirement				0.5 (Min.)			mg/l		5 Days/Week	Grab
COD, Carbonaceous 5 day, 20C RM Code 80082 G n.Site No. INF-01	Sample Measurement										
	Permit Requirement				Report			mg/l		Monthly	Grab
Solids, Total Suspended RM Code 00530 G n.Site No. INF-01	Sample Measurement										
	Permit Requirement				Report			mg/l		Monthly	Grab

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DAILY SAMPLE RESULTS - PART B

Permit Number: FLA184713

Facility: Tampa Electric Co. - H.L. Culbreath Bayside Power Station WWTP

Monitoring Period From: _____ To: _____

	Flow, in conduit or thru treatment plant	CBOD5 (mg/L)	TSS (mg/L)	pH (s.u.)	Fecal Coliform Bacteria (#/100ml)	TRC (For Disinfect.) (mg/L)	CBOD5 (mg/l)	TSS (mg/l)				
Code	50050	80082	00530	00400	74055	50060	80082	00530				
Mon. Site	EFF-02	EFF-01	EFF-01	EFF-01	EFF-01	EFF-01	INF-01	INF-01				
1												
2												
3												
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25												
26												
27												
28												
29												
30												
31												
Total												
Mo. Avg.												

PLANT STAFFING:

Day Shift Operator Class: _____ Certificate No: _____ Name: _____
 Evening Shift Operator Class: _____ Certificate No: _____ Name: _____
 Night Shift Operator Class: _____ Certificate No: _____ Name: _____
 Lead Operator Class: _____ Certificate No: _____ Name: _____

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

The DMR consists of four parts--A, B, C, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part C is only applicable for domestic wastewater facilities with limited wet weather discharges permitted under Chapter 62-610.860, F.A.C. Part D is used for reporting ground water monitoring data.

Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be typed or printed in ink.

In addition to filling in numerical results on various parts of the DMR, the following codes should be used and an explanation provided where appropriate. Note: Codes used by the lab for raw data may be different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLO	Flood disaster.
FS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period since limit is conditional.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.
TNTC	Too numerous to count (for fecal coliform bacteria only).

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions and code should be used:

CODE	DESCRIPTION/INSTRUCTIONS
<	If the sampled value is less than the method detection limit (MDL), enter a less than sign followed by the laboratory's MDL value, e.g. < 0.001. In cases where a laboratory reports a value which is less than the parameter's practical quantification limit (PQL), but, not less than the MDL, the value should be reported as the laboratory's MDL value. For example, where the MDL = 0.001, the PQL = 0.005 and the laboratory reports <0.005 (the PQL), the value of 0.001 should be reported on the DMR.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.) Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following blanks in the header should be completed by the permittee or authorized representative:

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number. If there was no discharge of effluent for a particular outfall, reuse, or land application system and the DMR monitoring group includes other monitoring locations (e.g., influent sampling); the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.).

Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

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ART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Record the results of daily monitoring for the parameters required to be sampled by your permit. Record the data in the units indicated. Add the results to get the Total and divide by the number of days in the month to get the Monthly Average.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

ART C - LIMITED WET WEATHER DISCHARGE

This part is to be completed and submitted each month reclaimed water or effluent is discharged by a limited wet weather discharge permitted under Rule 62-610.860, F.A.C. For months with no discharge, Part C need not be submitted. All information is to be provided for each day on which the limited wet weather discharge was activated.

Month/Year: Enter the month and year during which the data on this report were collected and analyzed.

Rainfall Information: Enter the name and location of the rainfall gauging station, the source of climatological (normal rainfall) data, the cumulative rainfall for the average rainfall year, and the cumulative rainfall to date for this calendar year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which falls during an average rainfall year from January through the month for which this part contains data. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Date: Enter the date on which the discharge occurred.

Duration of Discharge: Enter the number of hours, to the nearest 0.1 of an hour (0.1 hr. = 6 min.) during each day of discharge that reclaimed water was actually discharged to surface waters.

Millions Discharged: Enter the quantity in millions of gallons of reclaimed water discharged during the period shown in duration of discharge. Show the units as millions of gallons (mg), accurate to the nearest 0.01.

Average Discharge Flow Rate: Divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Average Upstream Flow Rate: Enter the average flow rate in the receiving stream upstream from the point of discharge for the period shown in duration of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Stream Dilution Factor: Enter the actual stream dilution ratio accurate to the nearest 0.1. To calculate the factor, divide the average upstream flow rate by the average discharge flow rate.

BOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Total P: Enter the cumulative number of days since January 1 of the current year during which the limited wet weather discharge was activated divided by the total number of days since January 1 of the current year multiplied by 100%.

Reason for Discharge: Provide a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

ART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results which are unexpected. If more space is needed, reference all attachments in this area.

STATEMENT OF BASIS
FOR
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
INDUSTRIAL WASTEWATER FACILITY PERMIT

APPLICATION NUMBER FLA184713-006-IW1N
APPLICATION DATE May 19, 2004
PERMIT NUMBER: FLA184713
PERMIT WRITER: Kelli S. Ford
NAME OF PERMITTEE: Tampa Electric Company
FACILITY NAME: Tampa Electric Company-Culbreath Bayside Power Station
FACILITY LOCATION: 3602 Port Sutton Road, Tampa , Hillsborough County

FACILITY DESCRIPTION:

Bayside Station is a natural gas electric generating plant that contains seven (7) combustion turbines (CTs) and seven (7) heat recovery steam generators (HRSGs), which produces approximately 1,183 megawatts (MW) of electricity. Steam created by the HRSGs in Bayside Station will serve 2 re-powered steam turbines at Gannon Station, which will produce an additional 563 MW of electricity.

DESCRIPTION OF WASTEWATER TREATMENT:

The existing six coal-fired steam electric generating units, with a nominal capacity of 1200 MW, have been re-powered by seven (7) combustion turbines (CTs) and seven (7) heat recovery steam generators (HRSGs). The re-powered units are designated as the Bayside Power Station, and are capable of producing 2800 MWs of electrical energy. Coal burning operations were terminated in October 2003. Volume and rates of production of coal combustion byproducts (bottom ash, fly ash, boiler slag) have decreased since being replaced with natural gas-fired (combined cycle) generation. The fuel yard is the site of temporary storage of coal combustion products. Use of the existing Ash Storage Area has been discontinued. Contact stormwater from the Coal Storage Area and the new Power Block (28 acres) has been routed to Pond #1 and the non-contact stormwater from the Power Block and the former Ash Handling Area is discharged either to wastewater ponds or to Stormwater Treatment Facility-2 (STF-2) for treatment. Other sources of wastewater include HRSG chemical cleaning and compressor washes, floor and equipment wash down, treated sanitary wastewater, demineralizer wastes, reverse osmosis concentrate and auxiliary cooling water blowdown.

EFFLUENT DISPOSAL LOCATION(S):

Land Application:

Land Application System G-001: process wastewater, reverse osmosis reject water, stormwater, and non process wastewater.

percolation ponds

Latitude: 28° 54' 28.00"

Longitude: 82° 25' 24.00"

BASIS FOR EFFLUENT LIMITS AND MONITORING REQUIREMENTS:

Land Application System G-001

Parameter			Basis for Limit/Monitoring Requirement
pH (SU)	SU	Daily Minimum Daily Maximum	62-550 F.A.C. 62-550 F.A.C.
Solids, Total Suspended (MG/L)	MG/L	Daily Maximum	BPJ
Nitrogen, Total (MG/L)	MG/L	Daily Maximum	BPJ
Nitrogen, Nitrate, Total (as N) (MG/L)	MG/L	Daily Maximum	62-550 F.A.C.
Carbon, Total Organic (TOC) (MG/L)	MG/L	Daily Maximum	62-550 F.A.C.
Sodium, Total Recoverable (MG/L)	MG/L	Daily Maximum	62-550 F.A.C.
Chloride (as Cl) (MG/L)	MG/L	Daily Maximum	62-550 F.A.C.
Fluoride, Total (as F) (MG/L)	MG/L	Daily Maximum	62-550 F.A.C.
Arsenic, Total Recoverable (UG/L)	UG/L	Daily Maximum	62-550 F.A.C.
Thallium, Total Recoverable (UG/L)	UG/L	Daily Maximum	62-550 F.A.C.
Barium, Total Recoverable (MG/L)	MG/L	Daily Maximum	62-550 F.A.C.
Nickel, Total Recoverable (UG/L)	UG/L	Daily Maximum	62-550 F.A.C.
Recycle Flow (MGD)	MGD	Monthly Average	BPJ
Solids, Total Dissolved (TDS) (MG/L)	MG/L	Daily Maximum	62-550 F.A.C.
Alpha, Gross Particle Activity (PCI/L)	PCI/L	Daily Maximum	62-550 F.A.C.
Arsenic, Total Recoverable	UG/L	Daily Maximum	62-550 F.A.C.
Temperature	Fahrenheit	Daily Maximum	BPJ
Radium 226+228, Total	PCI/L	Daily Maximum	62-550, F.A.C.

The following were used as the basis of the permit limitations/conditions:

A. FAC refers to various portions of the Florida Administrative Code.

The effective dates of FAC Rule Chapters cited in the permit and in this document are as follows:

<u>Chapter</u>	<u>Effective Date</u>
62-4	05-01-03
62-302	05-15-02
62-520	12-09-96
62-522	08-27-01
62-550	05-28-03
62-620	08-25-03
62-650	12-26-96
62-660	10-01-98

B. FS refers to various portions of the Florida Statutes

C. CFR refers to various portions of the Code of Federal Regulations, Title 40

D. BPJ refers to Best Professional Judgment

Note: The permittee shall sample and monitor for radium 226 and 228 for one year. This parameter shall also be monitored in the groundwater monitoring wells under Permit Condition III.A.2. If the levels in the compliance wells indicate levels meeting the drinking water standards listed under Chapter 62.550, F.A.C., the permittee may submit to the Department a request to discontinue monitoring of this parameter under the effluent and groundwater requirements.

On April 1, 2005, the Department received correspondence from that applicant requesting the following parameters to be removed from the effluent monitoring requirements:

Total Recoverable Cadmium

Total Recoverable Zinc

Total Recoverable Lead

Total Recoverable Mercury

Total Recoverable Chromium

Total Recoverable Selenium

After reviewing the data submitted along with the request and the Department's DMR files, it appears these parameters indicate levels that meet the drinking water standards listed under Chapter 62-550, F.A.C. Therefore, the facility can discontinue the monitoring requirements for these parameters in the next permit cycle.

GROUND WATER MONITORING REQUIREMENTS

Groundwater monitoring requirement has been established in accordance with Rule 62-522, F.A.C. The renewal permit will reflect the following changes in this next permit cycle:

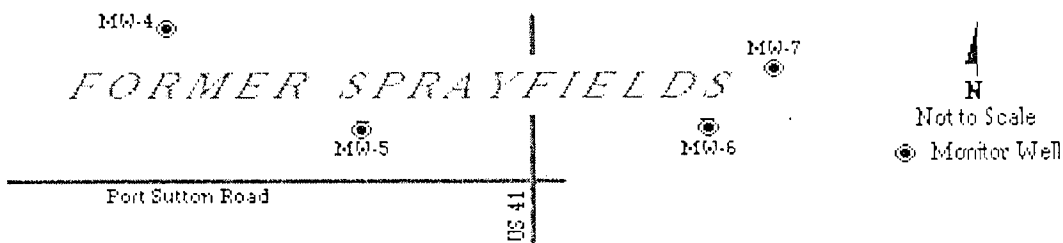
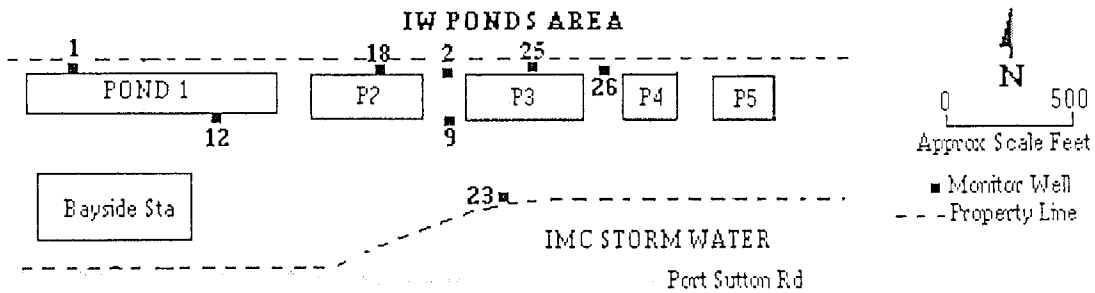
- The facility will continue to monitor and sample for field parameters (i.e. water level, pH, specific conductance, and turbidity, temperature), arsenic, gross alpha, sodium, chloride, and total dissolved solids on the old sprayfield on a semi-annual basis until levels are well below the maximum contaminant level (MCL) listed in Chapter 62-550, F.A.C.
- The facility will pursue a sodium exemption in accordance with Chapter 62-520, F.A.C. to address the excessive levels of sodium found in monitoring wells MWC-1, MWC-2, MWI-9, MWI-10 and the pond system. Once the exemption has been granted, the compliance limit for sodium will be "report only". An administrative order (AO) is issued with the renewal permit to allow the facility sufficient time to gather data and apply for the sodium exemption.
- These additional compliance wells will be sampled and monitored under the next permit cycle as a part of the revised groundwater monitoring plan submitted on May 18, 2004: MWC-18, MWC-23, MWC-25, and MWC-26. Monitoring well MW-19 will be plugged and abandoned.
- The groundwater quality standard for arsenic has changed from 50 ug/L to 10 ug/L as of January 1, 2005. However, to give the facility sufficient time to comply with the new standard, an AO will be issued. Time to comply with new standard shall not be more than twenty-four (24) months after permit issuance.
- The facility has proposed to have the following parameters being monitored under the current ground water monitoring plan (GWMP) eliminated:
 - o Gross Alpha Particle Activity

- o Total Recoverable Lead
- o Total Organic Carbon
- o Total Recoverable Selenium
- o Total Recoverable Cadmium
- o Total Recoverable Chromium
- o Total Recoverable Mercury

Historical groundwater data show that all of the proposed parameters are below the MCLs listed under Chapter 62-550 F.A.C., except for gross alpha particle activity. Data submitted in the request for additional information response dated December 15, 2004, still indicated excess levels of gross alpha from June 2003 to June 2004. To address this issue, the facility has decided to try the co-precipitation (EPA Method 00-02) method for testing gross alpha. This method is used where a high TDS level can cause an interference with the analysis resulting in a method detection limit much lower than the method typically used for gross alpha determination (EPA Method 00-02). This method was used during the 3rd quarter sampling event in 2004 and showed favorable results well below the MCL.

Based on the above information, the facility will be required to sample and monitor gross alpha in both the effluent and groundwater using the co-precipitation method in this next permit cycle. Within 180 days of permit issuance and Department approval of alternative laboratory method, TEC shall submit to the Department, an analytical report demonstrating that the approved alternative laboratory method indicates gross alpha levels at or below the maximum contaminant level (MCL) of 15 pCi/L.

Below are diagrams depicting the groundwater monitoring well locations onsite:



PROPOSED SCHEDULE FOR PERMIT ISSUANCE

Notice of Agency Action: April 25, 2005

Proposed Issuance Date of Permit: April 25, 2005

ADDITIONAL INFORMATION

In the past permit cycles, the facility was not required to sample and monitor for Radium 226+228 as a groundwater monitoring requirement, however, did provide analytical results for this parameter in Part V, Intake and Effluent Characteristics in their permit renewal application. Although the result indicates low levels of radium, it does not constitute compliance with groundwater quality standards. Therefore, in this next permit cycle, the facility will be required to sample and monitor for Radium 226+228 in both the effluent and groundwater to ensure that the primary drinking water standard for this parameter is being met in accordance with the following condition:

The permittee shall sample and monitor for radium 226 and 228 for one year. This parameter shall also be monitored in the groundwater monitoring wells under Permit Condition III.A.2. If the levels in the compliance wells indicate levels meeting the drinking water standards listed under Chapter 62.550, F.A.C., the permittee may submit to the Department a request to discontinue monitoring of this parameter under the effluent and groundwater requirements.

In the permit renewal application, dated May 18, 2004, the applicant requested that the renewal of the industrial wastewater permit for TECO be combined with the facility's domestic wastewater permit. The applicant implied it was not necessary to have two separate permits.

The Department received correspondence from the Hillsborough County Environmental Protection Commission (EPC) on April 6, 2005 stating no objection to combining the domestic wastewater treatment facility's permit with the industrial wastewater (IW) renewal permit. All specific conditions concerning the domestic wastewater treatment facility have been incorporated into the IW renewal permit.

Chapter 62-600.300(4)(1) which provides the minimum Class III reliability requirement shall apply to new, expanded, and modified facilities for which the Department received complete construction permit applications after July 1, 1991, but Class III reliability requirements shall only apply to the new, expanded, or modified portions of the facilities. TECO modified their existing wastewater treatment plant by constructing a new 0.005 MGD AADF wastewater treatment plant. However, the new facility did not meet the minimum requirements for Chapter 62-600.300(4)(1), therefore, in order to meet the Class III reliability requirements, the existing facility will remain onsite and piped into the newly constructed wastewater treatment facility and used if needed.

Tampa Electric Company
Exhibit B
Administrative Order No. AO-094-SW

**BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

IN THE MATTER OF:

**IN THE OFFICE OF THE
SOUTHWEST DISTRICT**

**Tampa Electric Company
P.O. Box 111
Tampa, Florida 33601-0111**

Administrative Order No.: AO-094-SW

DEP Permit No.: FLA184713

**ORDER ESTABLISHING COMPLIANCE SCHEDULE UNDER
SECTION 403.088(2)(f), FLORIDA STATUTES**

I. STATUTORY AUTHORITY

The Department of Environmental Protection (Department) issues this order under the authority of Section 403.088 of the Florida Statutes. The Secretary of the Department has delegated this authority to the Director of District Management, who issues this order and makes the following findings of fact.

II. FINDINGS OF FACT

1. Tampa Electric Company (TEC) is a person under Section 403 of the Florida Statutes.
2. TEC owns and operates a power plant located at 3602 Port Sutton Road, Tampa, Florida, which discharges wastewater into waters of the State as defined in Section 403.031 of the Florida Statutes.
3. TEC has applied for a permit under Section 403.088(2)(a), Florida Statutes.
4. The discharge from the H. L. Culbreath Bayside Power Station may not meet the following statutes and rules: Chapter 403, Florida Statutes, Florida Administrative Code Chapters 62-550

and 62-620. Specifically, wastewater characterization indicates that their discharges may be associated with ground water exceedances in sodium and gross alpha particle activity. Also, the laboratory method currently used to analyze gross alpha appears to be less sensitive than proposed alternative laboratory method.

5. Sections 403.088(2)(e) and (f) of the Florida Statutes authorize the Department to issue a permit for the discharge of wastes into waters of the State, accompanied by an order establishing a schedule for achieving compliance with all permit conditions if the specified criteria for such an order are met.

III. ORDER

Based on the foregoing findings of fact,

IT IS ORDERED,

1. Within thirty (30) days of permit issuance, TEC shall submit an application to the Department for a water quality criteria exemption of the sodium standard listed under Chapter 62-550, F.A.C. in accordance with Chapter 62-520.500, F.A.C.

During the life of this Administrative Order or approval of the exemption request, the permittee shall only report the values of sodium and shall not be subject to the limitations and standards contained in Section III.B.3 of the permit and the rules of the Department referenced above.

2. As of January 1, 2005, the groundwater quality standard for arsenic changed from 50 µg/L to 10 µg/L. The facility shall have twenty-four (24) months from the date of permit issuance to identify appropriate technology, operational, or wastewater treatment options that will be implemented so that the wastewater discharge will be in compliance with the new arsenic standard. TEC shall submit a plan of study (POS) within six (6) months of permit issuance identifying the specific technology, operational, or wastewater treatment options that will be implemented, a schedule for implementation and the date by which the facility will meet the new arsenic standard.

3. Within sixty (60) days of permit issuance, in accordance with Chapter 62-160.330 and DEP-QA-001/01, TEC shall provide to the Department for approval, technical justification and other supporting information establishing that the alternative laboratory method (EPA Method 900.0-02) for gross alpha particle activity provides accuracy, precision, reliability and method detection limit(s) (MDLs) equivalent to, or better than, those of the method it is intended to replace. In addition, an alternative laboratory method must be shown to be equivalent at the 95% confidence level to the one it is intended to replace.

4. TEC shall only report the values of gross alpha and shall not be subject to the limitations and standards contained in Section III.B.3 of the permit and the rules of Department until the above referenced alternative laboratory method has been approved or rejected by the Department. If the alternative laboratory method is not approved by the Department, TEC shall submit a POS within

ninety (90) days of Department's rejection identifying other wastewater treatment options that will be implemented to ensure that the groundwater quality standard for gross alpha will be met.

5. Within 180 days after Department approval of the alternative laboratory method, TEC shall submit to the Department, an analytical report demonstrating that the approved alternative laboratory method indicates gross alpha levels at or below the maximum contaminant level (MCL) of 15 pCi/L.

6. TEC shall have the facility in complete compliance with the terms of Permit No. FLA184713 two (2) years from the effective date of the permit and this Order shall become null and void at the end of that two (2) year period.

7. TEC shall provide this office with quarterly reports outlining progress toward compliance beginning on the effective date of Permit No. FLA184713.

8. TEC shall maintain and operate its facilities in compliance with all other conditions of Permit No. FLA184713.

9. This order may be modified as set forth in Chapter 62-4 of the Florida Administrative Code and through revisions as set forth in Chapter 62-620 of the Florida Administrative Code.

10. Reports or other information required by this order shall be sent to the Florida Department of Environmental Protection, Industrial Wastewater Program, Southwest District, 3804 Coconut Palm Drive, Tampa, Florida 33619-1352.

11. This order does not operate as a permit under Section 403 of the Florida Statutes. This order shall be incorporated by reference into DEP Permit No. FLA184713, which shall require compliance by the permittee with the requirements of this order.

12. Failure to comply with the requirements of this order shall constitute a violation of this order and DEP Permit No. FLA184713, and may subject the permittee to penalties as provided in Section 403.161 the Florida Statutes.

This order is final when filed with the clerk of the Department, and TEC then shall implement this order unless a petition for an administrative proceeding (hearing) is filed in accordance with the notice set forth in the following section.

IV. NOTICE OF RIGHTS

Persons whose substantial interests are affected by this order may petition for an administrative proceeding (hearing) in accordance with Section 120.57 of the Florida statutes. The petition must conform to the requirements of Rule 62-103 of the Florida Administrative Code, and must be filed (received) in the Office of General Counsel, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within

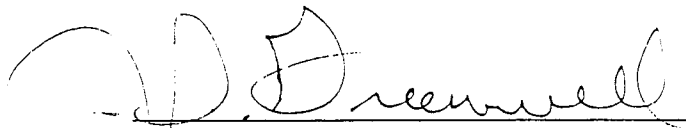
fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57 of the Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the final action of the Department may be different from the position taken by it in this preliminary statement. Therefore, persons who may not object to the proposed agency action may wish to intervene in the proceeding. A petition for intervention must be filed under model Rule 28-5.207, F.A.C., at least five days before the final hearing with the hearing officer (if one has been assigned) at the Division of Administrative Hearings, The DeSoto Building, 1230 Apalachee Parkway, Tallahassee, Florida 32399-1550. If no hearing officer has been assigned, the petition is to be filed with the Office of General Counsel, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to file a petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57 of the Florida Statutes.

Any party to this order has the right to seek judicial review of the order under Section 120.68 of the Florida Statutes, by the filing of a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department in the Office of General Counsel, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department.

DONE AND ORDERED on this 7 day of June 2005 in Tampa, Florida.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**



Jeffrey S. Greenwell, P.E.
Water Facilities Administrator
Southwest District

PERMITTEE: Tampa Electric Company
Administrative Order No.: AO-094-SW

PA File No.: FLA184713-006-IW1N

FILED AND ACKNOWLEDGED on this date, under Section 120.52(11) of the Florida Statutes,
with the designated Department Clerk, receipt of which is acknowledged.

Jacqueline M. Price June 7, 2005
Clerk Date

Tampa Electric Company
Exhibit C
Forecast of Expenses for Arsenic Groundwater Standard Program

**Arsenic Groundwater Standard Program Projected Expenses
2005 - 2007**

Plant - 2005

	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>TOTAL</u>
Bayside Power Station	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$10,000	\$30,000
Big Bend Power Station	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total:	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$10,000	\$30,000

Plant - 2006

	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>TOTAL</u>
Bayside Power Station	\$0	\$0	\$0	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$45,000
Big Bend Power Station	\$0	\$0	\$0	\$10,000	\$10,000	\$10,000	\$0	\$0	\$0	\$7,000	\$7,000	\$7,000	\$51,000
Total:	\$0	\$0	\$0	\$15,000	\$15,000	\$15,000	\$5,000	\$5,000	\$5,000	\$12,000	\$12,000	\$12,000	\$96,000

Plant - 2007

	<u>JAN</u>	<u>FEB</u>	<u>MAR</u>	<u>APR</u>	<u>MAY</u>	<u>JUN</u>	<u>JUL</u>	<u>AUG</u>	<u>SEP</u>	<u>OCT</u>	<u>NOV</u>	<u>DEC</u>	<u>TOTAL</u>
Bayside Power Station	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0	\$30,000
Big Bend Power Station	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$84,000
Total:	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$12,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$7,000	\$114,000

Activity Summary

	<u>TOTAL</u>
Bayside Power Station	\$105,000
Big Bend Power Station	\$135,000
Total for 2005 - 2007:	\$240,000