Florida Department of Environmental Protection
Northwest District
160 Governmental Center
Pensacola, Florida 32502-5794

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

March 12, 2010

BY ELECTRONIC MAIL
(pbyrne@ecua.org)

In the Matter of an
Application for Permit by:

Emerald Coast Utilities Authority
Mr. Patrick L. Byrne, P.E.
Deputy Executive Director Utility Operations
401 W Government St
Pensacola, Florida 32502-5572

Permit Number FL0031801
PA File Number FL0031801-005-DW1R/RA
Bayou Marcus WRF
Escambia County

INTENT TO ISSUE

The Department of Environmental Protection gives notice of its intent to issue a permit (copy of conditions attached) for the proposed project as detailed in the application specified above, for the reasons stated below.

The applicant, Emerald Coast Utilities Authority, applied on September 9, 2008, to the Department of Environmental Protection for a substantial modification permit for the Bayou Marcus Water Reclamation Facility to increase the discharge to the wetlands which increases the capacity from 8.2 MGD to 10.25 MGD AADF. The Utility proposes to increase the flow to the northern wetland area from 5.3 MGD annual average daily flow to 7.35 MGD annual average daily flow or 2.14 inches per week to 3.0 inches per week. Surface water in the northern wetland area flows to both Bayou Marcus Creek and upper Perdido Bay.

The Bayou Marcus WRF site is located at 3050 Fayal Drive, Pensacola, Florida at approximate latitude 30° 26′ 19″ N, Longitude: 87° 19′ 31″ W in Escambia County.

The Department has permitting jurisdiction under Chapter 403.087, Florida Statutes, and Florida Administrative Code Rules 62-4, 62-520, 62-600, 62-601, 62-302, 62-611, 62-620, 62-650 and 62-699. The project is not exempt from permitting procedures. The Department has determined that a wastewater permit revision is required for the proposed work.

Based upon the application and supplemental information, the Department has determined that the applicant has provided reasonable assurance that the above described wastewater project complies with the applicable provisions of Chapter 403 of the Florida Statutes and Title 62 of the Florida Administrative Code.

Under Section 403.815, Florida Statutes, and Rule 62-110.106, Florida Administrative Code, you (the applicant) are required to publish at your own expense the enclosed Notice of Intent to Issue Permit. The notice must be published one time only within 30 days of receipt of this intent to issue in the legal ad section of a newspaper of general circulation in the area affected. For the purpose of this rule, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, Florida Statutes, in the county where the activity is to take place. Where there is more than one newspaper of general circulation in the county, the newspaper used should be one with significant circulation in the area that may be affected by the permit. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant must provide proof of publication to the Department's Northwest District Office, 160 Governmental Center, Suite 308, Pensacola, Florida 32502-5794, within two weeks of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit under Rule 62-110.106(11), Florida Administrative Code.

The Department will issue the permit with the attached conditions 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 an extension 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. Section 120.60(3), Florida Statutes, however, also allows that any person who has 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 or request for an

extension of time 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, as indicated in Rule 28-106.201, Florida Administrative Code:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the determination;
(c) A statement of when and how the petitioner received notice of the Department's decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the Department's proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's proposed action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's proposed action.

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.

Executed in Pensacola, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

David Morres
Program Administrator

FILING AND ACKNOWLEDGMENT

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

CERTIFICATE OF SERVICE

The undersigned hereby certifies that this INTENT TO ISSUE and all copies were mailed before the close of business to the listed persons.

Brandy M Smith
Name

March 11, 2010
Date

Enclosure
Proposed Permit Revision, PA File No. FL0031801-005-DW1R/RA
Fact Sheet

c: Beth Stoltz, P.E., Camp Dreser & McKee (stoltzzbk@cdm.com)
Lee P. Wiseman, P.E., Camp Dreser & McKee (wisemanl@cdm.com)
Larry N. Schwartz, Ph.D., PWS, Camp Dreser & McKee (schwartzln@cdm.com)
Donald C. Palmer, P.E., Emerald Coast Utilities Authority (dpalmer@ecua.org)
Mark Nuhfer, Chief, NPDES Permits Section, EPA Region 4, Water Management Division, Surface Water Permits and Facilities Branch, (nuhfer.mark@epa.gov)
NWFWMD, Division of Resource Management, (Attn: Chief Bureau of Environment & Resource Planning - Duncan J. Cairns) (duncancairns@nwfwmd.state.fl.us)
Environmental Health Director, Escambia County Public Health Department (robert_merritt@doh.state.fl.us)
Chair, Escambia County Board of County Commissioners, Grover Robinson (district4@co.escambia.fl.us)
Escambia County Administrator, Larry Newsom (larry_newsom@co.escambia.fl.us)
Keith Wilkins (keith_wilkins@co.escambia.fl.us)
Doyle Butler (Doyle_Butler@co.escambia.fl.us)
Carol Moore, Emerald Coast Keepers (gckeeperrivers@cs.com)
Jackie Lane (jlane88@bellsouth.net)
Friends of Peridido Bay (info@perdidobay.org)
Linda Young, Clean Water Network, Southeast Regional Office (llyoung2@earthlink.net)
Monica Sudano, FDEP, Tallahassee (monica.sudano@dep.state.fl.us)
Elsa Potts, P.E., FDEP, Tallahassee (elsa.potts@dep.state.fl.us)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF INTENT TO ISSUE PERMIT
(FL0031801-005-DW1R/RA)

The Department of Environmental Protection gives notice of its intent to issue a permit to Patrick L. Byrne, P.E., Deputy Executive Director Utility Operations, Emerald Coast Utilities Authority, 401 West Government Street, Pensacola, FL 32502 for a substantial modification permit for the Bayou Marcus Water Reclamation Facility to increase the discharge to the wetlands which increases the capacity from 8.2 MGD to 10.25 MGD AADF. The Utility proposes to increase the flow to the northern wetland area from 5.3 MGD annual average daily flow to 7.35 MGD annual average daily flow or 2.14 inches per week to 3.0 inches per week. Surface water in the northern wetland area flows to both Bayou Marcus Creek and upper Perdido Bay.

The Bayou Marcus WRF site is located at 3050 Fayal Drive, Pensacola, Florida at approximate latitude 30° 26′ 19″ N, Longitude: 87° 19′ 31″ W in Escambia County.

The Department has permitting jurisdiction under Chapter 403.087, Florida Statutes, and Florida Administrative Code Rules 62-4, 62-520, 62-600, 62-601, 62-302, 62-611, 62-620, 62-650 and 62-699. The project is not exempt from permitting procedures. The Department has determined that a wastewater permit revision is required for the proposed work.

The intent to issue and application file are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the Department's Northwest District Office, 160 Governmental Center, Suite 308, Pensacola, Florida 32502-5794, at phone number (850)595-8300.

The Department will issue the permit with the attached conditions 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.

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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. Section 120.60(3), Florida Statutes, however, also allows that any person who has 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 or request for an extension of time 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, as indicated in Rule 28-106.201, Florida Administrative Code:

(a) The name and address of each agency affected and each agency's file or identification number, if known;
(b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the determination;
(c) A statement of when and how the petitioner received notice of the Department's decision;
(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
(e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the Department's proposed action;
(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's proposed action; and
(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the Department to take with respect to the Department's proposed action.

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.

Florida Department of Environmental Protection
Northwest District
160 Governmental Center
Pensacola, Florida 32502-5794

STATE OF FLORIDA
DOMESTIC WASTEWATER FACILITY PERMIT REVISION

PERMITTEE:

Emerald Coast Utilities Authority

RESPONSIBLE AUTHORITY:

Mr. Patrick L. Byrne, P.E.
Deputy Executive Director Utility Operations
401 West Government Street
Pensacola, FL 32502

(850) 969-3380

PERMIT NUMBER:	FL0031801 (Major)
PA FILE NUMBERS:	FL0031801-005-DW1R/RA
	FL0031801-007-DW1/MR
	FL0031801-006-DW1/MR
	FL0031801-004-DW1/MR
	FL0031801-003-DW1P/NR
ISSUANCE 003 DATE:	November 16, 2007
REVISION 004 DATE:	November 29, 2007
REVISION 006 DATE:	October 22, 2008
REVISION 007 DATE:	December 10, 2008
REVISION 005 DATE:	TBD Proposed
EXPIRATION DATE:	November 15, 2012 (unchanged)

FACILITY:

Bayou Marcus Water Reclamation Facility
3050 Fayal Drive
Pensacola, FL 32526
Escambia County
Latitude: 30° 26' 19" N Longitude: 87° 19' 31" W

This permit revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.) and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. 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:

- Treatment Facilities: no changes by this revision. The permitted treatment capacity remains 8.2 MGD AADF.
- Disposal: Surface Water Discharge: Existing total flow to both wetlands of 8.2 MGD AADF is increased to 10.25 MGD AADF. The flow is proportioned to the northern wetlands - 7.35 MGD AADF and the southern wetlands – 2.9 MGD AADF.

This is a substantial modification permit for the Bayou Marcus Water Reclamation Facility to increase the discharge to the Bayou Marcus WRF's northern wetlands from 5.3 MGD annual average daily flow to 7.35 MGD annual average daily flow or 2.14 inches per week to 3.0 inches per week. Surface waters in the northern wetland area flows to both Bayou Marcus Creek (WBID 697) and upper Perdido Bay (WBID 797).

The Bayou Marcus Water Reclamation Facility northern and southern wetlands site is bounded by Kainui Drive and Alekai Drive to the north, and on the south by State Road 298 (Lillian Highway), on the east by Blue Angel Parkway, and on the west by Perdido Bay. The Northern and Southern Wetland Sites are separated by Bayou Marcus Creek. The wetland site occupies an area of 992 acres. The wetland sites are located in Sections 8, 12 and 13, Township 2 South, Range 31 West in Escambia County, Florida.

This revised permit includes the following new conditions:

- Condition I.A.1 - Effluent flow and nutrient loading limitations are for discharge (D-002) to the Northern and Southern portions of the Wetlands.
- Condition I.A.6 - Bioassay monitoring requirements revised to update the type of chronic toxicity bioassay test performed from chronic screen NOEC ≥ 100% to chronic definitive IC25 ≥ 100%.

- New Condition I.A.11 - 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. [62-620.325].
- Condition I.B.1/B.2 – Revised southern wetlands monitoring locations. Change in monitoring station nomenclature from WIM-06, WIM-07, WIM-08 and WIM-09 to WEP-S3, WIM-S2, WEP-N4 and WIM-N1, respectively. In addition, wetland monitoring site S-1 (WIM-10) is deleted.
- Condition III.7 - Revised northern wetlands monitoring location for ground water monitoring well.The ground monitoring plan is revised to delete monitoring well MWC-09 and add monitoring well MWC- 16.

All new or revised permit conditions are effective upon the period beginning on the issuance of this permit revision and lasting through the expiration date of this permit.

All other monitoring requirements and permit limits remains unchanged. This document is to be attached to and become part of wastewater permit number FL0031801.

Executed in Pensacola, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

_____

David P. Morres, P.E.
Program Administrator

DATE: _____

Enclosures: Site Location Map
Monitoring Station Locations

Condition I.A.1 - Effluent flow and nutrient loading limitations are for discharge (D-002) to the Northern and Southern portions of the Wetlands - pages 3R & 4R
Condition I.A.6 – Bioassay monitoring requirements update – pages 5, 6, 5R & 6R
Condition I.A.11 – TMDL Reopener Clause – page 7R
Condition I.B.1/B.2 – Receiving Wetlands Monitoring Requirements – pages 8R & 9R
Condition III.7 – Monitoring Well MWC-09 replaced with monitoring Well MWC-16. Monitoring Well MWC-09 deleted – page 17R

DMRs page replacements:
- Part A – Monthly Report – D-002 – page 1R thru 4R
- Part A – Bioassay Report – D-002 – page 5R
- Part A – Receiving Wetlands Reports for WEP-S3, WIM-S2, WEP-N4 and WIM-N1– pages 8R, 9R , 10R, 11R, 12R, 13R, 14R & 15R
- Part D – New Ground Water Monitoring Well MWC-16 – page 44

rcus Expansion)\Data\GIS\MXD\Aerial 8.5x11 Dist.mxd

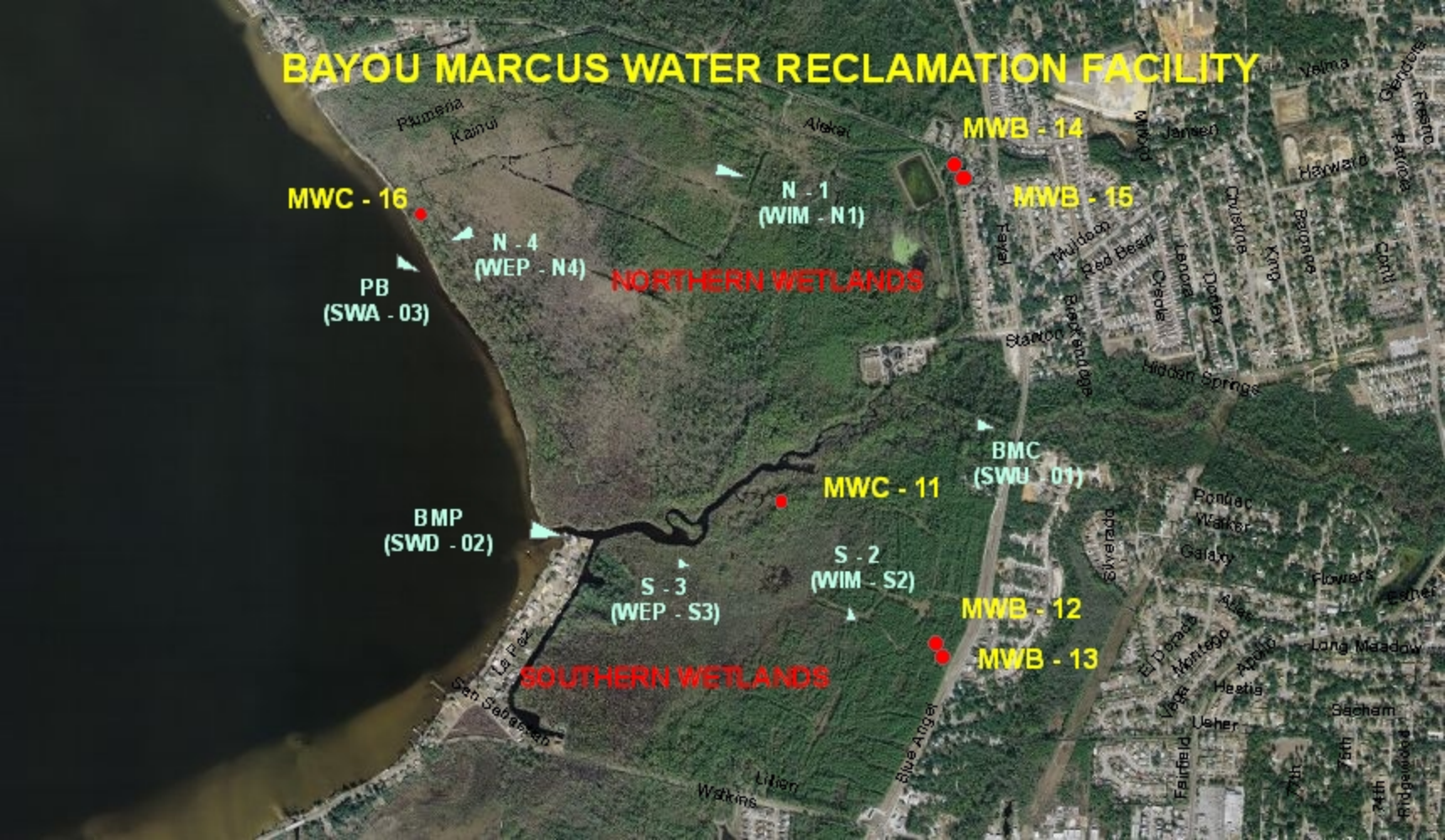
N:\36484 (Bay

CDM

0 1,250 2,500 Feet

1 inch equals 1,250 feet

Figure 1
Study Area Location Map
Bayou Marcus Wetlands Application System


BAYOU MARCUS WATER RECLAMATION FACILITY
MWB - 14
MWB - 15
MWC - 16
N - 1
(WIM - N1)
N - 4
(WEP - N4)
NORTHERN WETLANDS
PB
(SWA - 03)
BMC
(SWU - 01)
MWC - 11
BMP
(SWD - 02)
S - 2
(WIM - S2)
S - 3
(WEP - S3)
MWB - 12
MWB - 13
SOUTHERN WETLANDS
Plumeria
Kauai
Alakai
Jewel
Blueberry
Red Bean
Cedola
Donley
Blackenridge
Stanton
Hidden Springs
Velma
Glendora
Fresno
Patricia
Hayward
Christine
Bayonne
King
Cahill
Pontiac
Walker
Galaxy
Flowers
Esther
Long Meadow
Hestig
Becham
Ueher
Fairfield
Blue Angel
Lilian
Watkins
La Paz
San Salvador

FIRST AMENDMENT TO THE FACT SHEET AT THE TIME OF PROPOSED AGENCY ACTION

DATE: March 11, 2010

PERMIT NUMBER: FL0031801

PA File Number: FL0031801-005-DW1R/RA

NAME OF APPLICANT: Emerald Coast Utilities Authority
Patrick L. Byrne, P.E.
Deputy Executive Director Utility Operations
401 West Government Street
Pensacola, FL 32502

FACILITY NAME: Bayou Marcus WRF

PERMIT WRITER: Joe May

1. Introduction

On December 3, 2009 the Department gave notice of its preparation of a draft permit revision to Emerald Coast Utilities Authority, DEP File No. FL0031801-005-DW1R/RA, to increase the discharge to the Bayou Marcus WRF's northern wetlands from 5.3 MGD annual average daily flow to 7.35 MGD annual average daily flow, or 2.14 inches per week to 3.0 inches per week.

The Notice of Draft Permit was published in the Tuesday, December 8, 2009, Pensacola News Journal, Legal Ad No. 1439244. The notice did not schedule a public meeting. On December 30, 2009, the Department received a letter from Ms. Jacqueline M. Lane requesting a public meeting and provided comments on the Department's Notice of Draft Permit Revision for the ECUA Bayou Marcus Water Reclamation Facility, DEP file number FL0031801-005-DW1R/RA.

As a result the Department agreed to hold a public meeting on the draft permit based upon local request and interest. By letter on January 26, 2010, Emerald Coast Utilities Authority and Ms. Lane were informed of the Department's decision to hold a public meeting on March 2, 2010.

The purpose of the public meeting was to receive public comments regarding the Department's draft substantial modification permit for Emerald Coast Utilities Authority to increase the discharge to Bayou Marcus WRF's northern wetlands.

The public meeting was held on March 2, 2010 at 6:00 PM at the DEP Northwest District Office. Two (2) people provided verbal comments at the public meeting, no written comments were received. As a result of the public meeting, the public comment period for the draft permit was extended until Tuesday, March 10.

2. Written Comments Received before the Public Meeting (1 letter)

Ms. Lane was notified by letter dated March 4, 2010, of the Department's response to each of the comments in her letter dated December 30, 2009. The comments by Ms. Lane (in italic) and the Department's response to each comment are below:

(1) By allowing an increased amount of flow to the wetlands, Rule 62-611.350(1) F.A.C. will be violated. According to above Rule only 2" of effluent should be applied to a wetland per week. This modification will allow 3" of effluent to be applied per week. This will hydraulically overload the wetland and be more likely to create short-circuits in the system.

(1) DEP response: Rule 62-611.350(1), F.A.C., states,

"Hydraulic loading rates shall be designed to minimize alteration of the natural hydroperiod and for wetlands used for treatment to maximize their assimilative capacity. The annual average hydraulic loading shall not exceed two inches per week, except in hydrologically altered wetlands where the annual average hydraulic loading shall be appropriately designed for the site and approved by the Department to assure compliance with Rule 62-611.500 and 62-611.450, F.A.C., and shall not exceed six inches per week."

Bayou Marcus WRF wetlands, since the first 1996 permit application, have been described as hydrologically altered. Hydrologically altered wetlands, defined by Rule 62-611.200(14), FAC, are wetlands "... in which the hydrologic regime has been altered prior to October 1, 1985, by drainage works which have directly resulted in substantial and continuing encroachment by perennial upland species."

Therefore, Rule 62-611.350(1), F.A.C., allows permitting a hydrologically altered wetland up to but not to exceed 6 inches per week. The first Bayou Marcus WRF wetland permit of 1996, acknowledging the hydrologically altered wetland, permitted a hydraulic loading rate for the 8.2 MGD to be distributed over the north and south wetland parcels, which was equivalent to 2.14 inches per week, annual average.

Also, Rule 62-611.350(2), F.A.C. allows the design criteria for existing receiving wetlands to be revised based upon 5 or more years of operational data and effects on downstream waters. The draft permit revision is based upon this rule.

(2) By increasing the flow, the total loading of nitrogen and phosphorus will increase in Perdido Bay. Perdido Bay has already been listed as an "impaired" body of water for nutrients. Hence by issuing this permit to ECUA, the water quality for nutrients (Rule 62-302.530(47)(b)) will be violated and Rule 62-611.450(2)(a) F.A.C. will also be violated.

(2) DEP response: The draft permit does not increase nutrient loading to Perdido Bay. The draft permit holds the line for nutrient loading into the receiving wetland while the hydraulic loading rate increases from approximately 2.14 to 3.0 inches per week. The draft permit maintains the Rule 62-611.420(2) reclaimed water's advanced waste treatment (AWT) concentrations of 5, 5, 3, 1 for CBOD5, TSS, TN and TP as Annual Average, respectively, but establishes the daily nutrient loading rate based upon the existing permitted flow and concentration annual average limits.

(3) The antidegradation rule [Rule 62-4.242(1)(b), F.A.C.] is also being violated by issuance of this draft permit.

(3) DEP response: Without any specific issue other than the assumed increase of nutrients that is addressed in (2) above, the FDEP Fact Sheet that accompanied the Notice of Draft Permit provided an antidegradation analysis that concluded that the antidegradation requirement was in compliance.

(4) The EPA is promulgating new rules and limits for nutrients which are suppose to restore bodies of water. This permit looks like an attempt to get a permit before those rules go into effect.

(4) DEP response: EPA proposed freshwater numeric nutrient criteria for Florida on January 14, 2010. Please note that wetlands and marine waters were excluded from these proposed criteria. However, FDEP has started the rule making process to develop marine numeric nutrient criteria, which would be applicable to Perdido Bay. FDEP hosted a marine numeric nutrient development workshop in Pensacola on February 10, 2010 at which you were present.

Since Upper Perdido Bay has been identified as impaired for nutrients, any nutrient load increase to the impaired waterbody should not be permitted unless an alternative analysis is provided that includes a detailed (i.e., fine scale) assessment of its impact on the existing impairment and that the assessment results in a finding of no significant increase in the impairment of the bay.

The nutrient TMDL for Perdido Bay is scheduled to be completed in 2012 by use of a Hydrologic, Hydrodynamic and Water Quality modeling approach. Once models have been selected for use by the Department, then the required fine scale assessment can be completed. In the interim, the Department has proposed the draft permit revision to "hold the line" for nutrient loadings through trading off increases in flow by requiring a proportionate reduction of nutrient concentrations in the effluent. In addition, the draft permit has a re-opener condition that allows the Department to revise the permit to incorporate the final findings of a TMDL.

(5) I hereby request a public hearing on this draft permit so that the public may better understand how DEP can issue a permit to allow increased hydraulic loading to this wetland which will result in increased nutrients in a bay which is already impaired, especially since the consultant did a WQBEL which indicated a net increase in nutrients.

(5) DEP response: As stated above, a public meeting was held on March 2, 2010 at 6:00 PM at the DEP Northwest District Office. The draft permit revision does not use the consultants proposed nutrient loading but rather "holds the line" by limiting both the increase flow and the "existing permitted" nutrient loading pounds. The slides used in the Department's presentation at the public meeting illustrate that the draft permit does not increase the permitted nutrient loading to the wetland.

3. Verbal comments received at Public Meeting

Both James and Jacqueline Lane provided comments at the public meeting. There were no significant comments different than those presented in Ms. Lane's December 30, 2009 letter.

4. Written Comments Received After Public Meeting

An email from Ms. Lane dated Monday, March 8, 2010 provided no comments, thanked the Department for holding the public meeting and stated they would not challenge ECUA 's proposed permit. However, they would keep an eye on what happens to the wastewater plant in the future.

Ms. Lane did ask about one citizen concern that was mentioned at the public meeting regarding the discharge of the ECUA effluent to the drainage ditch which runs along Alekai Drive. Steve Woods, Bayou Marcus WRF Lead Operator, who was at the meeting, was aware of the problem.

The Department will address this as a maintenaance issue with ECUA to prevent the wetland flow to short circuit/channelize to the roadside ditches along Alekai and Kainui Drives whose ditch discharges to Perdido Bay.

5. CHANGES TO PERMIT FROM DRAFT PERMIT STAGE TO INTENT TO ISSUE PERMIT STAGE:

None.

FACILITY: Bayou Marcus WRF
PERMITTEE: ECUA
401 West Government Street
Pensacola, Florida 32302

PERMIT NUMBER: FL0031801
PA FILE NUMBERS: FL0031801-005-DW1R/RA

I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Surface Water Discharges

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to discharge effluent from Outfall D-002 to receiving wetlands. Such discharge shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.B.8:

			Effluent Limitations				Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Annual Average**	**Monthly Average**	**Weekly Average**	**Single Sample**	**Monitoring Frequency**	**Sample Type**	**Monitoring Location Site Number**	**Notes**
Total Flow to Wetlands	MGD	Maximum	**10.25**	Report	-	-	Continuous	Calculted	FLW-04	
Flow to Northern portion of the Wetland.	MGD	Maximum	**7.35** ~~5.3~~	Report	-	-	Continuous	Recording flow meters and totalizers	FLW-02	See Cond.I.B.4
Flow to Southern portion of the Wetland.	MGD	Maximum	2.9	Report	-	-	Continuous	Recording flow meters and totalizers	FLW-03	See Cond.I.B.4
BOD, Carbonaceous 5 day, 20C	MG/L	Maximum	5.0	6.3	7.5	10.0	5 Days/Week	24-hour flow proportioned composite	EFF-01	
Solids, Total Suspended	MG/L	Maximum	5.0	6.3	7.5	10.0	5 Days/Week	24-hour flow proportioned composite	EFF-01	
Nitrogen, Ammonia, Total as NH4	MG/L	Maximum	1.6	2.0	2.4	3.2	5 Days/Week	24-hour flow proportioned composite	EFF-01	
Phosphorus, Total (as P)	MG/L (LBS/DAY)	Maximum	1.0 **(68.4)**	1.3	1.5	2.0	5 Days/Week	24-hour flow proportioned composite (Calculated)	EFF-01	
Phosphorus, Total (as P) (Northern portion of the Wetland)	LBS/DAY	Maximum	**44.2**				5 Days/Week	Calculated	EFF-01	
Phosphorus, Total (as P) (Southern portion of the Wetland)	LBS/DAY	Maximum	**24.2**				5 Days/Week	Calculated	EFF-01	
Nitrogen, Total	MG/L (LBS/DAY)	Maximum	3.0 **(205.2)**	3.8	4.5	6.0	5 Days/Week	24-hour flow proportioned composite (Calculated)	EFF-01	
Nitrogen, Total (Northern portion of the Wetland)	LBS/DAY	Maximum	**132.6**				5 Days/Week	Calculated	EFF-01	
Nitrogen, Total (Southern portion of the Wetland)	LBS/DAY	Maximum	**72.6**				5 Days/Week	Calculated	EFF-01	
pH	SU	Range	-	-	-	6.0 to 8.5	Continuous	Grab	EFF-01	See Cond.I.A.3
Coliform, Fecal	#/100ML	Maximum	See Permit Condition I.A.5.				5 Days/Week	Grab	EFF-01	
Oxygen, Dissolved (DO)	MG/L	Minimum	-	-	-	5.0	Daily	Grab	EFF-01	

FACILITY: Bayou Marcus WRF
PERMITTEE: ECUA
401 West Government Street
Pensacola, Florida 32302

PERMIT NUMBER: FL0031801
PA FILE NUMBERS: FL0031801-005-DW1R/RA

			Effluent Limitations				Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Annual Average**	**Monthly Average**	**Weekly Average**	**Single Sample**	**Monitoring Frequency**	**Sample Type**	**Monitoring Location Site Number**	**Notes**
Ultraviolet Light Intensity	MW/CM2	Minimum	-	-	-	Report	Continuous	Meter	PPI-02	
Ultraviolet Light Dosage	MW-S/CM2	Minimum	-	-	-	25	Continuous	Calculated	PPI-02	
Whole Effluent Toxicity (Chronic)	See Permit Condition I.A.6								EFF-01	
Zinc, Total Recoverable	UG/L	Maximum	See Permit Condition I.A.7 & 10				Monthly	24-hour flow proportioned composite	EFF-01	
Copper, Total Recoverable	UG/L	Maximum	See Permit Condition I.A.9 & 10				Monthly	24-hour flow proportioned composite	EFF-01	
Hardness, Total (as $CaCO_3$)	MG/L	Maximum	See Permit Condition I.A.8				Monthly	24-hour flow proportioned composite	EFF-01	

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

Monitoring Location Site Number	Description of Monitoring Location
EFF-01	Effluent monitoring point prior to discharge to the wetlands.
FLW-02	Flow to Northern Portion of Wetlands.
FLW-03	Flow to Southern Portion of Wetlands.
FLW-04	Total Flow to the Wetlands.
PPI-02	Internal Monitoring at UV Unit.

3. Hourly measurement of pH during the period of required operator attendance may be substituted for continuous measurement. *[Chapter 62-601, Figure 2]*

4. Recording flow meters and totalizers shall be utilized to measure flow and calibrated at least annually. *[62-601.200(17) and .500(6)]*

5. 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. *[62-610.510 and 62-600.440(4)(c)*

~~6. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-002.~~

~~a. Effluent Limitation~~

~~(1) Whole effluent chronic toxicity shall not exceed a No Observed Effect Concentration (NOEC) of less than 100% effluent in any test. [Rule 62-302.530(62), F.A.C.]~~

~~b. Monitoring Frequency~~

~~(1) "Routine" toxicity tests shall be conducted quarterly and lasting for the duration of this permit unless a reduction in the frequency of monitoring is granted in writing by the Department.~~

~~(2) Upon completion of six consecutive, valid "routine" tests that demonstrate compliance with the effluent limitation in 6.a.(1) above, the permittee may submit a written request to the Department for a reduction in monitoring frequency. The Department shall review this request within 45 days of receipt and approve or deny the request in writing. Materials submitted to the Department for review should include a summary of the data and the complete bioassay reports for all tests being considered. In no case shall the frequency of monitoring be reduced to less than annually. Requested reductions in monitoring shall only become effective upon Department approval.~~

~~(3) If a test within the sequence of the six is deemed invalid, but is replaced by a repeat valid test initiated within seven days of the invalidation, the invalid test will not be counted against the requirement for six consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency. If two or more invalidations occur, this provision does not apply.~~

~~c. Test Requirements~~

~~(1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and one test concentration of **100%** final effluent.~~

~~(2) Additional Follow-up Tests, if required:~~

~~(a) If a routine test does not meet the chronic toxicity limitation in 6.a.(1) above, the permittee shall conduct three additional follow-up tests on each species that failed the test.~~

~~(b) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The dilution series may be modified in the second and third tests to more accurately bracket the toxicity such that at least two dilutions above (not to exceed~~

100% effluent) and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be statistically analyzed according to the Appendices in EPA-821-R-02-013.

(c) The first test shall be initiated within two weeks of the end of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of three valid additional follow-up tests are completed.

(3) The permittee shall conduct 7-day chronic toxicity tests using the daphnid, **Ceriodaphnia dubia**, Survival and Reproduction Test and the fathead minnow, **Pimephales promelas**, Larval Survival and Growth Test, concurrently.

(4) All test species, procedures and quality assurance criteria used shall be in accordance with **Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms**, 4th ed., EPA-821-R-02-013. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.

(5) The control water and dilution water used shall be moderately hard water as described in EPA-821-R-02-013, Section 7.

d. Sampling Requirements

(1) For each routine or additional follow-up test conducted, a total of three 24-hour composite samples of final effluent shall be collected and used per the sampling protocol discussed in EPA-821-R-02-013, Section 8.

(2) The first composite sample shall be used to initiate the test. The remaining two composite samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.

e. Quality Assurance Requirements

(1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or started no more than 30 days before the date of each routine or additional follow-up test conducted. The SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.

(2) If the mortality in the control (0% effluent) exceeds 20% for either species in any test or does not meet "test acceptablity criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (*C. dubia*) and Section 11.12 (*P. promelas*).

(3) If, during any test, 100% mortality occurs in the 100% effluent concentration prior to the end of the test and control mortality is less than 20% at that time, that test (including the control) shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(4) Additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship and the percent minimum significant difference (PMSD), as required by EPA-821-R-02-013, Sections 10.2.6 and 10.2.8, respectively. Results from these evaluations shall be included with the bioassay reports.

f. Reporting Requirements

(1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:

(a) Routine Test Results: If the NOEC of a test species is greater than or equal to 100% effluent, ">100%" should be entered on the DMR for that test species. If the NOEC of a test species is less than 100% effluent, "<100%" should be entered.

(b) Additional Follow-up Test Results: Report the % effluent determined to be the NOEC endpoint of the test.

(2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-013, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days of the completion of the test.

(3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-013, Section 10, and mailed within 45 days of completion of the third valid additional follow-up test. If any additional follow-up test or two consecutive routine tests do not meet the effluent limitation specified in 6.a.(1) above, the permittee shall contact the Department within 30 days of the laboratory report submittal to discuss the appropriate corrective actions necessary to remedy the observed chronic toxicity.

(4) All bioassay reports shall be sent to:

Florida Department of Environmental Protection
Northwest District Office
160 Governmental Center, Room 302
Pensacola, Florida 32502-5794

6. The permittee shall comply with the following requirements to evaluate chronic whole effluent toxicity of the discharge from outfall D-001.

   a. Effluent Limitation

      (1) In any routine or additional follow-up test for chronic whole effluent toxicity, the 25 percent inhibition concentration (IC25) shall not be less than 100% effluent. [Rules 62-302.530(20) and 62-4.241(1)(b), F.A.C.]
      (2) For acute whole effluent toxicity, the 96-hour LC50 shall not be less than 100% effluent in any test. [Rule 62-302.500(1)(a)4. and 62-4.241(1)(a), F.A.C.]

   b. Monitoring Frequency

      (1) Routine toxicity tests shall be conducted quarterly, the first starting within 60 days of the issuance date of this permit and lasting for the duration of this permit.
      (2) Upon completion of four consecutive valid routine tests that demonstrate compliance with the effluent limitation in .a.(1) above, the permittee may submit a written request to the Department for a reduction in monitoring frequency to once every six months. The request shall include a summary of the data and the complete bioassay laboratory reports for each test used to demonstrate compliance. The Department shall act on the request within 45 days of receipt. Reductions in monitoring shall only become effective upon the Department's written confirmation that the facility has completed four consecutive valid routine tests that demonstrate compliance with the effluent limitation in .a.(1) above.
      (3) If a test within the sequence of the four is deemed invalid based on the acceptance criteria in EPA-821-R-02-013, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive valid tests for the purpose of evaluating the reduction of monitoring frequency.

   c. Sampling Requirements

      (1) For each routine test or additional follow-up test conducted, a total of three samples of final effluent shall be collected and used in accordance with the sampling protocol discussed in EPA-821-R-02-013, Section 8.
      (2) The first sample shall be used to initiate the test. The remaining two samples shall be collected according to the protocol and used as renewal solutions on Day 3 (48 hours) and Day 5 (96 hours) of the test.
      (3) Samples for routine and additional follow-up tests shall not be collected on the same day.

   d. Test Requirements

      (1) Routine Tests: All routine tests shall be conducted using a control (0% effluent) and a minimum of five test dilutions: **100%**, **50%**, **25%**, **12.5%**, and **6.25%** final effluent.
      (2) The permittee shall conduct a daphnid, **Ceriodaphnia dubia**, Survival and Reproduction Test and a fathead minnow, **Pimephales promelas**, Larval Survival and Growth Test, concurrently.
      (3) All test species, procedures and quality assurance criteria used shall be in accordance with **Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms**, 4th Edition, EPA-821-R-02-013. Any deviation of the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use. In the event the above method is revised, the permittee shall conduct chronic toxicity testing in accordance with the revised method.
      (4) The control water and dilution water shall be moderately hard water as described in EPA-821-R-02-013, Section 7.2.3.

   e. Quality Assurance Requirements

      (1) A standard reference toxicant (SRT) quality assurance (QA) chronic toxicity test shall be conducted with each species used in the required toxicity tests either concurrently or initiated no more than 30 days before the date of each routine or additional follow-up test conducted. Additionally, the SRT test must be conducted concurrently if the test organisms are obtained from outside the test laboratory unless the test organism supplier provides control chart data from at least the last five monthly chronic toxicity tests using the same reference toxicant and test conditions. If the organism supplier provides the required SRT data, the organism supplier's SRT data and the test laboratory's monthly SRT-QA data shall be included in the reports for each companion routine or additional follow-up test required.

If the mortality in the control (0% effluent) exceeds 20% for either species in any test or does not meet "test acceptability criteria", the test for that species (including the control) shall be invalidated and the test repeated. Test acceptability criteria for each species are defined in EPA-821-R-02-013, Section 13.12 (**Ceriodaphnia dubia**) and Section 11.11 (**Pimephales promelas**). The repeat test shall begin within 21 days after the last day of the invalid test.

(2) If 100% mortality occurs in all effluent concentrations for either test species prior to the end of any test and the control mortality is less than 20% at that time, the test (including the control) for that species shall be terminated with the conclusion that the test fails and constitutes non-compliance.

(3) Routine and additional follow-up tests shall be evaluated for acceptability based on the observed dose-response relationship as required by EPA-821-R-02-013, Section 10.2.6., and the evaluation shall be included with the bioassay laboratory reports.

f. Reporting Requirements

(1) Results from all required tests shall be reported on the Discharge Monitoring Report (DMR) as follows:
(a) Routine and Additional Follow-up Test Results: The calculated IC25 for each test species shall be entered on the DMR.

(2) A bioassay laboratory report for each routine test shall be prepared according to EPA-821-R-02-013, Section 10, Report Preparation and Test Review, and mailed to the Department at the address below within 30 days after the last day of the test.

(3) For additional follow-up tests, a single bioassay laboratory report shall be prepared according to EPA-821-R-02-013, Section 10, and mailed within 30 days after the last day of the second valid additional follow-up test.

(4) Data for invalid tests shall be included in the bioassay laboratory report for the repeat test.

(5) The same bioassay data shall not be reported as the results of more than one test.

(6) All bioassay laboratory reports shall be sent to:
Florida Department of Environmental Protection
Northwest District Office
160 Governmental Center, Suite 308
Pensacola, Florida 32502-5794

g. Test Failures

(1) A test fails when the test results do not meet the limits in .a.(1).

(2) Additional Follow-up Tests:
(a) If a routine test does not meet the chronic toxicity limitation in .a.(1) above, the permittee shall notify the Department at the address above within 21 days after the last day of the failed routine test and conduct two additional follow-up tests on each species that failed the test in accordance with .d.
(b) The first test shall be initiated within 28 days after the last day of the failed routine test. The remaining additional follow-up tests shall be conducted weekly thereafter until a total of two valid additional follow-up tests are completed.
(c) The first additional follow-up test shall be conducted using a control (0% effluent) and a minimum of five dilutions: 100%, 50%, 25%, 12.5%, and 6.25% effluent. The permittee may modify the dilution series in the second additional follow-up test to more accurately bracket the toxicity such that at least two dilutions above and two dilutions below the target concentration and a control (0% effluent) are run. All test results shall be analyzed according to the procedures in EPA-821-R-02-013.

(3) In the event of three valid test failures (whether routine or additional follow-up tests) within a 12-month period, the permittee shall notify the Department within 21 days after the last day of the third test failure.
(a) The permittee shall submit a plan for correction of the effluent toxicity within 60 days after the last day of the third test failure.
(b) The Department shall review and approve the plan before initiation.
(c) The plan shall be initiated within 30 days following the Department's written approval of the plan.
(d) Progress reports shall be submitted quarterly to the Department at the address above.
(e) During the implementation of the plan, the permittee shall conduct quarterly routine whole effluent toxicity tests in accordance with .d. Additional follow-up tests are not required while the plan is in progress. Following completion or termination of the plan, the frequency of monitoring for routine and additional follow-up tests shall return to the schedule established in .b.(1). If a routine test is invalid according to the acceptance criteria in EPA-821-R-02-013, a repeat test shall be initiated within 21 days after the last day of the invalid routine test.

(f) Upon completion of four consecutive quarterly valid routine tests that demonstrate compliance with the effluent limitation in .a.(1) above, the permittee may submit a written request to the Department to terminate the plan. The plan shall be terminated upon written verification by the Department that the facility has passed at least four consecutive quarterly valid routine whole effluent toxicity tests. If a test within the sequence of the four is deemed invalid, but is replaced by a repeat valid test initiated within 21 days after the last day of the invalid test, the invalid test will not be counted against the requirement for four consecutive quarterly valid routine tests for the purpose of terminating the plan.

(4) If chronic toxicity test results indicate greater than 50% mortality within 96 hours in an effluent concentration equal to or less than the effluent concentration specified as the acute toxicity limit in .(1)(b), the Department may revise this permit to require acute definitive whole effluent toxicity testing.

(5) The additional follow-up testing and the plan do not preclude the Department taking enforcement action for acute or chronic whole effluent toxicity failures.

[62-4.241, 62-620.620(3)]

7. Total recoverable zinc (Zn) shall be monitored monthly and reported on a Discharge Monitoring Report (DMR), form DEP 62-620.910(10). The applicable water quality criterion for Zinc (Zn) are calculated using the equation below.

The daily maximum limitation for total recoverable zinc (Zn) shall not exceed the amount resulting from the following equation:

$$\text{ug/l Zn} \leq e^{(0.8473[\ln H] + 0884)}$$

[Rules 62-302.300, 62-302(24), 62-302.530(40), 62-302.530(71).FAC]

8. The term "LnH" is the natural logarithm of the total hardness, expressed as mg/l $CaCO_3$. The total hardness and the above recoverable metals shall be monitored concurrently. The total hardness value resulting from monitoring requirements of Part I.A.1. shall be used to determine the zinc and copper limits. The equations can only be applied for hardness in the range of 25 to 400 mg/l as $CaCo_3$. If the effluent analysis reveals a total hardness less than 25 mg/l $CaCO_3$ or greater than 400 mg/l $CaCO_3$, use 25 mg/l or 400 mg/l respectively, for the total hardness in the equations to calculate each total recoverable metal limitation. *[Rule 62-302.530 FAC]*

9. Total recoverable copper (Cu) shall be monitored monthly and reported on a Discharge Monitoring Report (DMR), form DEP 62-620.910(10). The applicable water quality criterion for copper (Cu) are calculated using the equation below. The daily maximum limitation for total recoverable copper (Cu) shall not exceed the amount resulting from the following equation:

$$\text{ug/l Cu} \leq e^{(0.8545[\ln H] - 1.702)}$$

[Rules 62-302.300, 62-302(24), 62-302.530(40), 62-302.530(71).FAC]

10. The daily maximum limits in I.A.7. and I.A.9. above are final limits. Concentrations measured in any effluent sample that exceed those values derived using the equations in I.A.7. and I.A.9. above shall be considered a violation the conditions of this permit and will be subject to enforcement actions pursuant to Chapter 403 , Florida Statutes, and Chapter 62-620, Florida Administrative Code**.** *[Rule 62-620.620 FAC]*

11. 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. [62-620.325].

B. Receiving Wetland

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee shall monitor water quality, sediment, and biota within and from the hydrologically altered receiving wetland(s). Wetland monitoring shall be performed in accordance with the following:

			Effluent Limitations				Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Annual Average**	**Monthly Average**	**Weekly Average**	**Single Sample**	**Monitoring Frequency**	**Sample Type**	**Monitoring Location Site Number**	**Notes**
BOD, Carbonaceous 5 day, 20C	MG/L	Maximum	-	-	-	Report	Quarterly	Grab	**WEP-N4** ~~WIM 06~~, **WIM-S2** ~~WIM 07~~, **WEP-S3** ~~WIM 08~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	
Solids, Total Suspended	MG/L	Maximum	-	-	-	Report	Quarterly	Grab	**WEP-N4** ~~WIM 06~~, **WIM-S2** ~~WIM 07~~, **WEP-S3** ~~WIM 08~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	
pH	SU	Range	-	-	-	Report	Quarterly	Field Probe	**WEP-N4** ~~WIM 06~~, **WIM-S2** ~~WIM 07~~, **WEP-S3** ~~WIM 08~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	
Temperature, Water	DEG C	Maximum	-	-	-	Report	Quarterly	Field Thermometer	**WEP-N4** ~~WIM 06~~, **WIM-S2** ~~WIM 07~~, **WEP-S3** ~~WIM 08~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	48 hr dawn-dusk, max 4 hr intervals
Coliform, Fecal	#/100ML	Maximum	-	-	-	Report	Quarterly	Grab	**WEP-N4** ~~WIM 06~~, **WIM-S2** ~~WIM 07~~, **WEP-S3** ~~WIM 08~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	
Oxygen, Dissolved (DO)	MG/L	Minimum	-	-	-	Report	Quarterly	Field Probe	**WEP-N4** ~~WIM 06~~, **WIM-S2** ~~WIM 07~~, **WEP-S3** ~~WIM 08~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	48 hr dawn-dusk, max 4 hr intervals
Nitrogen, Total Kjeldahl as N	MG/L	Maximum	-	-	-	Report	Quarterly	Grab	**WEP-N4** ~~WIM 06~~, **WIM-S2** ~~WIM 07~~, **WEP-S3** ~~WIM 08~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	
Nitrogen, Ammonia, Total as NH4	MG/L	Maximum	-	-	-	Report	Quarterly	Grab	**WEP-N4** ~~WIM 06~~, **WIM-S2** ~~WIM 07~~, **WEP-S3** ~~WIM 08~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	
Specific conductance, Field	UMHOS/ CM	Maximum	-	-	-	Report	Quarterly	Field Probe	**WEP-N4** ~~WIM 06~~, **WIM-S2** ~~WIM 07~~, **WEP-S3** ~~WIM 08~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	
NO2+NO3, Total 1 DET. as N	MG/L	Maximum	-	-	-	Report	Quarterly	Grab	**WEP-N4** ~~WIM 06~~, **WIM-S2** ~~WIM 07~~, **WEP-S3** ~~WIM 08~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	
Total Nitrogen	MG/L	Maximum	3.0	-	-	Report	Quarterly	Grab	**WEP-N4** ~~WIM 06~~, **WEP-S3** ~~WIM 08~~	
Un-ionized Ammonia	MG/L	Maximum	0.02	-	-	Report	Quarterly	Calculated	**WEP-N4** ~~WIM 06~~, **WEP-S3** ~~WIM 08~~	
Phosphorus, Total (as P)	MG/L	Maximum	0.2	-	-	Report	Quarterly	Grab	**WEP-N4** ~~WIM 06~~, **WEP-S3** ~~WIM 08~~	
Phosphorus, Total (as P)	MG/L	Maximum	-	-	-	Report	Quarterly	Grab	**WIM-S2** ~~WIM 07~~, **WIM-N1** ~~WIM 09~~, ~~WIM 10~~	

			Effluent Limitations				Monitoring Requirements			
Parameter	**Units**	**Max/Min**	**Annual Average**	**Monthly Average**	**Weekly Average**	**Single Sample**	**Monitoring Frequency**	**Sample Type**	**Monitoring Location Site Number**	**Notes**
Sulfide (Sediment Sampling)	MG/KG	Maximum	-	-	-	Report	Annually	Grab	**WEP-N4** ~~WIM-06~~, **WIM-S2** ~~WIM-07~~, **WEP-S3** ~~WIM-08~~, **WIM-N1** ~~WIM-09~~, ~~WIM-10~~	
Sulfate, Total as SO4	MG/L	Maximum	-	-	-	Report	Quarterly	Grab	**WEP-N4** ~~WIM-06~~, **WIM-S2** ~~WIM-07~~, **WEP-S3** ~~WIM-08~~, **WIM-N1** ~~WIM-09~~, ~~WIM-10~~	
Chlorophyll-A,Phytoplankton,Fluorometric Method	UG/L	Maximum	-	-	-	Report	Quarterly	Grab	**WEP-N4** ~~WIM-06~~, **WIM-S2** ~~WIM-07~~, **WEP-S3** ~~WIM-08~~, **WIM-N1** ~~WIM-09~~, ~~WIM-10~~	
Staff Gauge Reading	Feet	Maximum	-	-	-	Report	Continuous	Stage Recorder	**WEP-N4** ~~WIM-06~~, **WEP-S3**~~WIM-08~~	
Water Level Reading	NGVD	Maximum	-	-	-	Report	Continuous	Meter	**WEP-N4** ~~WIM-06~~, **WIM-S2** ~~WIM-07~~, **WEP-S3** ~~WIM-08~~, **WIM-N1** ~~WIM-09~~, ~~WIM-10~~	
Woody Vegetation Sampling	Yes/No	Maximum	-	-	-	Report	Annually	Field	**WEP-N4** ~~WIM-06~~, **WIM-S2** ~~WIM-07~~, **WEP-S3** ~~WIM-08~~, **WIM-N1** ~~WIM-09~~, ~~WIM-10~~	
Herbaceous Vegetation Sampling	Yes/No	Maximum	-	-	-	Report	Quarterly	Line Intercept Method	**WEP-N4** ~~WIM-06~~, **WIM-S2** ~~WIM-07~~, **WEP-S3** ~~WIM-08~~, **WIM-N1** ~~WIM-09~~, ~~WIM-10~~	
Fish Sampling	Yes/No	Maximum	-	-	-	Report	Annually	Field	**WEP-N4** ~~WIM-06~~, **WEP-S3** ~~WIM-08~~	
Threatened And Endangered Plant and Animal Species List	Yes/No	Maximum	-	-	-	Report	Annually	Field	**WEP-N4** ~~WIM-06~~, **WIM-S2** ~~WIM-07~~, **WEP-S3** ~~WIM-08~~, **WIM-N1** ~~WIM-09~~, ~~WIM-10~~	

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

Monitoring Location Site Number	**Description of Monitoring Location**
WEP-N4 ~~WIM-06~~	Northern System Quadrant N-4 Sampling Station. Point of discharge **(exit)** from the northern wetland.
WIM-S2 ~~WIM-07~~	Southern System Quadrant S-2 Sampling Station. Southern wetland internal monitoring station.
WEP-S3 ~~WIM-08~~	Southern System Quadrant S-3 Sampling Station. Point of discharge **(exit)** from the southern wetland.
WIM-N1 ~~WIM-09~~	Northern System Quadrant N-1 Sampling Station. Northern wetland internal monitoring station.
~~WIM-10~~	~~Southern System Quadrant S-1 Sampling Station. Southern wetland internal monitoring station.~~

6. During the period of operation authorized by this permit, the permittee shall sample ground water in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-522.600, F.A.C. *[62-522.600][62-610.412]*

7. The following monitoring wells shall be sampled quarterly and shall be sampled in accordance with the monitoring frequencies specified in Permit Condition III.8 for Disposal System D-002. Quarterly sampling must be reasonably spaced to be representative of potentially changing conditions.

Well Name	Monitoring Location Site Number	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
~~MWC - 9~~	~~26977~~	~~7.00~~	~~Sand & Gravel~~	~~Compliance~~	~~Existing~~
MWC - 10	26978	9.00	Sand & Gravel	Compliance	Existing
MWC - 11	26979	TBD	Sand & Gravel	Compliance	New
MWB - 12	26980	TBD	Sand & Gravel	Background	New
MWB - 13	26981	TBD	Sand & Gravel	Background	New
MWB - 14	31193	12.00	Sand & Gravel	Background	Existing
MWB - 15	31194	41.00	Sand & Gravel	Background	Existing
MWC - 16		**TBD**	**Sand & Gravel**	**Compliance**	**New**

[62-522.600, 8-21-00]

8. The following parameters shall be analyzed quarterly for each of the monitoring well(s) identified in Condition III.7:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to NGVD	Report	feet	In-situ	Quarterly
Nitrogen, Nitrate, Total (as N)	10	mg/l	Grab	Quarterly
Solids, Total Dissolved (TDS)	500	mg/l	Grab	Quarterly
Arsenic, Total Recoverable	10	ug/l	Grab	Quarterly
Chloride (as Cl)	250	mg/l	Grab	Quarterly
Cadmium, Total Recoverable	5	ug/l	Grab	Quarterly
Chromium, Total Recoverable	100	ug/l	Grab	Quarterly
Lead, Total Recoverable	15	ug/l	Grab	Quarterly
Coliform, Fecal	4	#/100ml	Grab	Quarterly
pH	6.0 to 8.5	s.u.	In-situ	Quarterly
Sulfate, Total	250	mg/l	Grab	Quarterly
Turbidity	Report	ntu	Grab	Quarterly
TKN	Report	mg/l	Grab	Quarterly

[62-522.600(11)(b)] [62-601.300(3), 62.601.700, and Figure 3 of 62-601]

9. If the concentration for any constituent listed in Permit Condition III.8. 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. *[62-520.420(2), 12-9-96]* Ground water monitoring parameters shall be analyzed in accordance with Chapter 62-601, F.A.C. *[62-620.610(18)]*

10. Ground water monitoring and surface water monitoring results which require quarterly testing shall be submitted on Part D of Form 62-620.910(10). Results shall be submitted with April, July, October, and January DMR for each year during the period of operation allowed by this permit. *[62-522.600(10) and (11)(b)] [62-601.300(3), 62.601.700, and Figure 3 of 62-601] [62-620.610(18)]*

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: Emerald Coast Utilities Authority
MAILING ADDRESS: 401 West Government Street
Pensacola, FL 32302

FACILITY: Bayou Marcus WRF
LOCATION: 3050 Fayal Drive
Pensacola, FL 32526
COUNTY: Escambia

PERMIT NUMBER FL0031801
LIMIT: Final
REPORT: Monthly
GROUP: Domestic

CLASS SIZE: Major
MONITORING GROUP NUMBER: D-002
MONITORING GROUP DESC: D-002, including Influent
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Total Flows to Wetland	Sample Measurement										
PARM Code 50050 Y Mon.Site No. FLW-04	Permit Requirement	**10.25** (An.Avg.)		MGD						Continuous	Flow Totalizer
Total Flows to Wetland	Sample Measurement										
PARM Code 50050 1 Mon.Site No. FLW-04	Permit Requirement	**Report** (Mo.Avg.)		MGD						Continuous	Flow Totalizer
Flow to Northern Wetland	Sample Measurement										
PARM Code 50050 Y Mon.Site No. FLW-02	Permit Requirement	**7.35** ~~5.3~~ (An.Avg.)		MGD						Continuous	Flow Totalizer
Flow to Northern Wetland	Sample Measurement										
PARM Code 50050 1 Mon.Site No. FLW-02	Permit Requirement	Report (Mo.Avg.)		MGD						Continuous	Flow Totalizer
Flow to Southern Wetland	Sample Measurement										
PARM Code 50050 P Mon.Site No. FLW-03	Permit Requirement	2.9 (An.Avg.)		MGD						Continuous	Flow Totalizer
Flow to Southern Wetland	Sample Measurement										
PARM Code 50050 Q Mon.Site No. FLW-03	Permit Requirement	Report (Mo.Avg.)		MGD						Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 Y Mon.Site No. EFF-01	Permit Requirement				5.0 (An.Avg.)			MG/L		5 Days/Week	24-hr. FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 1 Mon.Site No. EFF-01	Permit Requirement				6.3 (Mo.Avg.)	7.5 (Wk.Avg.)	10.0 (Max.)	MG/L		5 Days/Week	24-hr. FPC

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: Bayou Marcus WRF MONITORING GROUP NUMBER: D-002 PERMIT NUMBER: FL0031801
MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 Y Mon.Site No. EFF-01	Permit Requirement				5.0 (An.Avg.)			MG/L		5 Days/Week	24-hr. FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 1 Mon.Site No. EFF-01	Permit Requirement				6.3 (Mo.Avg.)	7.5 (Wk.Avg.)	10.0 (Max.)	MG/L		5 Days/Week	24-hr. FPC
Nitrogen, Ammonia, Total as NH4	Sample Measurement										
PARM Code 71845 Y Mon.Site No. EFF-01	Permit Requirement				1.6 (An.Avg.)			MG/L		5 Days/Week	24-hr. FPC
Nitrogen, Ammonia, Total as NH4	Sample Measurement										
PARM Code 71845 1 Mon.Site No. EFF-01	Permit Requirement				2.0 (Mo.Avg.)	2.4 (Wk.Avg.)	3.2 (Max.)	MG/L		5 Days/Week	24-hr. FPC
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 Y Mon.Site No. EFF-01	Permit Requirement	**68.4 (An.Avg.)**		**LBS/DAY**	1.0 (An.Avg.)			MG/L		5 Days/Week	24-hr. FPC
Phosphorus, Total (as P) (Northern portion of the Wetland)	Sample Measurement										
PARM Code 00665 R Mon.Site No. EFF-01	Permit Requirement	**44.2 (An.Avg.)**		**LBS/DAY**						5 Days/Week	Calculated
Phosphorus, Total (as P) (Southern portion of the Wetland)	Sample Measurement										
PARM Code 00665 S Mon.Site No. EFF-01	Permit Requirement	**24.2 (An.Avg.)**		**LBS/DAY**						5 Days/Week	Calculated
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 1 Mon.Site No. EFF-01	Permit Requirement				1.3 (Mo.Avg.)	1.5 (Wk.Avg.)	2.0 (Max.)	MG/L		5 Days/Week	24-hr. FPC
Nitrogen, Total	Sample Measurement										
PARM Code 00600 Y Mon.Site No. EFF-01	Permit Requirement	**205.2 (An.Avg.)**		**LBS/DAY**	3.0 (An.Avg.)			MG/L		5 Days/Week	24-hr. FPC
Nitrogen, Total (Northern portion of the Wetland)	Sample Measurement										
PARM Code 00600 R Mon.Site No. EFF-01	Permit Requirement	**132.6 (An.Avg.)**		**LBS/DAY**						5 Days/Week	Calculated
Nitrogen, Total (Southern portion of the Wetland)	Sample Measurement										
PARM Code 00600 S Mon.Site No. EFF-01	Permit Requirement	**72.6 (An.Avg.)**		**LBS/DAY**						5 Days/Week	Calculated

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Bayou Marcus WRF MONITORING GROUP NUMBER: D-002 PERMIT NUMBER: FL0031801
MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Total	Sample Measurement										
PARM Code 00600 1 Mon.Site No. EFF-01	Permit Requirement				3.8 (Mo.Avg.)	4.5 (Wk.Avg.)	6.0 (Max.)	MG/L		5 Days/Week	24-hr. FPC
pH	Sample Measurement										
PARM Code 00400 1 Mon.Site No. EFF-01	Permit Requirement				6.0 (Min.)	8.5 (Max.)		SU		Continuous	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 Y Mon.Site No. EFF-01	Permit Requirement				200 (An.Avg.)			#/100ML		5 Days/Week	Grab
Coliform, Fecal	Sample Measurement										
PARM Code 74055 1 Mon.Site No. EFF-01	Permit Requirement				200 (Mo.Geo.Mean)	400 (90%)	800 (Max.)	#/100ML		5 Days/Week	Grab
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 1 Mon.Site No. EFF-01	Permit Requirement				5.0 (Min.)			MG/L		Daily	Grab
Ultraviolet Light Intensity - 1A (Channel #1 - Bank #1A)	Sample Measurement										
STORET No. 49607 S Mon.Site No. PPI-02	Permit Measurement				Report (Min.)			MW/CM^2		Continuous	Meter
Ultraviolet Light Intensity – 1B (Channel #1 - Bank #1B)	Sample Measurement										
STORET No. 49607 T Mon.Site No. PPI-02	Permit Measurement				Report (Min.)			MW/CM^2		Continuous	Meter
Ultraviolet Light Intensity – 1C (Channel #1 - Bank #1C)	Sample Measurement										
STORET No. 49607 U Mon.Site No. PPI-02	Permit Measurement				Report (Min.)			MW/CM^2		Continuous	Meter
Ultraviolet Light Intensity - 2A (Channel #2 - Bank #2A)	Sample Measurement										
STORET No. 49607 V Mon.Site No. PPI-02	Permit Measurement				Report (Min.)			MW/CM^2		Continuous	Meter
Ultraviolet Light Intensity – 2B (Channel #2 - Bank #2B)	Sample Measurement										
STORET No. 49607 W Mon.Site No. PPI-02	Permit Measurement				Report (Min.)			MW/CM^2		Continuous	Meter
Ultraviolet Light Intensity – 2C (Channel #2 - Bank #2C)	Sample Measurement										
STORET No. 49607 X Mon.Site No. PPI-02	Permit Measurement				Report (Min.)			MW/CM^2		Continuous	Meter
Ultraviolet Light Dosage	Sample Measurement										
STORET No. 61938 1 Mon.Site No. PPI-02	Permit Measurement				25 (Min.)			MWS/CM2		Continuous	Calculated

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Bayou Marcus WRF MONITORING GROUP NUMBER: D-002 PERMIT NUMBER: FL0031801
MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Copper, Total Recoverable (effluent)	Sample Measurement										
PARM Code 01119 1 Mon.Site No. EFF-01	Permit Requirement				Report (Max.)			UG/L		Monthly	24-hr. FPC
Copper, Total Recoverable (calculated limit)	Sample Measurement										
PARM Code 01119 P Mon.Site No. EFF-01	Permit Requirement				Report (Max.)			UG/L		Monthly	Calculated
Copper, Total Recoverable (effluent minus calculated limit)	Sample Measurement										
PARM Code 01119 Q Mon.Site No. EFF-01	Permit Requirement				0.0 (Max.)			UG/L		Monthly	Calculated
Zinc, Total Recoverable (effluent)	Sample Measurement										
PARM Code 01094 1 Mon.Site No. EFF-01	Permit Requirement				Report (Max.)			UG/L		Monthly	24-hr. FPC
Zinc, Total Recoverable (calculated limit)	Sample Measurement										
PARM Code 01094 P Mon.Site No. EFF-01	Permit Requirement				Report (Max.)			UG/L		Monthly	Calculated
Zinc, Total Recoverable (effluent minus calculated limit)	Sample Measurement										
PARM Code 01094 Q Mon.Site No. EFF-01	Permit Requirement				0.0 (Max.)			UG/L		Monthly	Calculated
Hardness, Total (as CaCO3)	Sample Measurement										
PARM Code 00900 1 Mon. Site No. EFF-01	Permit Requirement				Report (Max.)			MG/L		Monthly	24-hr. FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement										
PARM Code 80082 G Mon.Site No. INF-01	Permit Requirement				Report (Mo.Avg.)			MG/L		5 Days/Week	24-hr. FPC
Solids, Total Suspended	Sample Measurement										
PARM Code 00530 G Mon.Site No. INF-01	Permit Requirement				Report (Mo.Avg.)			MG/L		5 Days/Week	24-hr. FPC
Percent Capacity, (TMADF/Permitted Capacity) x 100	Sample Measurement										
PARM Code 00180 P Mon.Site No. CAL-01	Permit Requirement				Report (Mo. Avg.)			PER-CENT		Monthly	Calculated
Flow, in conduit or thru treatment plant	Sample Measurement										
PARM Code 50050 R Mon.Site No. FLW-01	Permit Requirement	8.2 (An. Avg.)		MGD						Continuous	Flow Totalizer
Flow, in conduit or thru treatment plant	Sample Measurement										
PARM Code 50050 S Mon.Site No. FLW-01	Permit Requirement	Report (Mo. Avg.)		MGD						Continuous	Flow Totalizer

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: Emerald Coast Utilities Authority
MAILING ADDRESS: 401 West Government Street
Pensacola, FL 32501

FACILITY: Bayou Marcus Water Reclamation Facility
LOCATION: 3050 Fayal Drive
Pensacola, FL 32526

COUNTY: Escambia

PERMIT NUMBER FL0031801

LIMIT: Final
CLASS SIZE: Major

REPORT: Toxicity Monthly
GROUP: Domestic

MONITORING GROUP NUMBER: D-002
MONITORING GROUP DESC: D-002, including Influent

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

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
7-DAY CHRONIC STATRE Ceriodaphnia dubia(Routine)	Sample Measurement										
PARM Code TRP3B P Mon. Site No. EFF-02	Permit Requirement				100 (Min.)			percent		Quarterly; four times per year	24-hr FPC
7-DAY CHRONIC STATRE Ceriodaphnia dubia(Additional)	Sample Measurement										
PARM Code TRP3B Q Mon. Site No. EFF-02	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Ceriodaphnia dubia(Additional)	Sample Measurement										
PARM Code TRP3B R Mon. Site No. EFF-02	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Pimephales promelas(Routine)	Sample Measurement										
PARM Code TBP6C P Mon. Site No. EFF-02	Permit Requirement				100 (Min.)			percent		Quarterly; four times per year	24-hr FPC
7-DAY CHRONIC STATRE Pimephales promelas(Additional)	Sample Measurement										
PARM Code TRP6C Q Mon. Site No. EFF-02	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit
7-DAY CHRONIC STATRE Pimephales promelas(Additional)	Sample Measurement										
PARM Code TRP6C R Mon. Site No. EFF-02	Permit Requirement				100 (Min.)			percent		As needed	As required by the permit

*IF A THIRD ADDITIONAL TEST IS REQUIRED, ENTER THE RESULT ON A SEPARATE TOXICITY DMR, AND CHANGE THE PARM CODE FROM "Q" TO "S"
**ENTER NODI=C IN THE RESULTS COLUMN IF NO DISCHARGE OCCURRED DURING THIS REPORTING PERIOD.
ENTER NODI=9 IN THE RESULTS COLUMN FOR EACH TEST THAT IS NOT REQUIRED.

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):

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: Emerald Coast Utilities Authority
MAILING ADDRESS: 401 West Government Street
Pensacola, FL 32501

FACILITY: Bayou Marcus Water Reclamation Facility
LOCATION: 3050 Fayal Drive
Pensacola, FL 32526
COUNTY: Escambia

PERMIT NUMBER FL0031801

LIMIT: Final
CLASS SIZE: Major

REPORT: Quarterly
GROUP: Domestic

MONITORING GROUP NUMBER: D-003
MONITORING GROUP DESC: Wetlands Monitoring
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To _____

WAFR SITE NO.: **WEP-N4** ~~WIM-06~~

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
CBOD5	Sample Measurement										
PARM Code 80082 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
TSS	Sample Measurement										
PARM Code 00530 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
pH	Sample Measurement										
PARM Code 00400 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Min.)	Report (Max.)		SU		Quarterly	Field Probe
Temperature, Water	Sample Measurement										
PARM Code 00010 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			°C		Quarterly	Field Thermometer
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Min.)			MG/L		Quarterly	Field Probe
Fecal Coliform Bacteria	Sample Measurement										
PARM Code 74055 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			#/100ML		Quarterly	Grab
TKN	Sample Measurement										
PARM Code 00625 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	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: Bayou Marcus Water Reclamation Facility MONITORING GROUP NUMBER: D-003 WAFR SITE NO.: **WEP-N4** ~~WIM-06~~
MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Ammonia Total	Sample Measurement										
PARM Code 00610 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			UMHOS/CM		Quarterly	Field Probe
NO2 + NO3, Total	Sample Measurement										
PARM Code 00630 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Sulfate, Total	Sample Measurement										
PARM Code 00945 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Chlorophyll-A, Phytoplankton	Sample Measurement										
PARM Code 32230 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			UG/L		Quarterly	Grab
Stream Stage	Sample Measurement										
PARM Code 34782 U Mon.Site No. WIM-06	Permit Requirement		Report (Max.)	Feet						Continuous	Grab
Water Level at samp. Collection time	Sample Measurement										
PARM Code 85327 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement		Report (Max.)	Feet						**Continuous**	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement					3.0 (An. Avg.)	Report Qtr (Max.)	MG/L		Quarterly	Grab
Nitrogen, Ammonia, Total Un-ionized (as N)	Sample Measurement										
PARM Code 00619 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement					0.02 (An. Avg.)	Report Qtr (Max.)	MG/L		Quarterly	Calculated
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 U Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement					0.2 (An. Avg.)	Report Qtr (Max.)	MG/L		Quarterly	Grab
Herbaceous Vegetation Sampling	Sample Measurement										
PARM Code 51052 W Mon.Site No. **WEP-N4** ~~WIM-06~~	Permit Requirement				Report (Max.)			Yes or No		Quarterly	Grab

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: Emerald Coast Utilities Authority
MAILING ADDRESS: 401 West Government Street
Pensacola, FL 32501

FACILITY: Bayou Marcus Water Reclamation Facility
LOCATION: 3050 Fayal Drive
Pensacola, FL 32526
COUNTY: Escambia

PERMIT NUMBER FL0031801

LIMIT: Final
CLASS SIZE: Major

REPORT: Quarterly
GROUP: Domestic

MONITORING GROUP NUMBER: D-003
MONITORING GROUP DESC: Wetlands Monitoring
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To _____

WAFR SITE NO.: **WIM-S2** ~~WIM-07~~

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
CBOD5	Sample Measurement										
PARM Code 80082 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
TSS	Sample Measurement										
PARM Code 00530 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
pH	Sample Measurement										
PARM Code 00400 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Min.)	Report (Max.)		SU		Quarterly	Field Probe
Temperature, Water	Sample Measurement										
PARM Code 00010 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			ºC		Quarterly	Field Thermometer
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Min.)			MG/L		Quarterly	Field Probe
Fecal Coliform Bacteria	Sample Measurement										
PARM Code 74055 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			#/100ML		Quarterly	Grab
TKN	Sample Measurement										
PARM Code 00625 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	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: Bayou Marcus Water Reclamation Facility MONITORING GROUP NUMBER: D-003 WAFR SITE NO.: **WIM-S2** ~~WIM-07~~

MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Ammonia Total	Sample Measurement										
PARM Code 00610 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			UMHOS/CM		Quarterly	Field Probe
NO2 + NO3, Total	Sample Measurement										
PARM Code 00630 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Sulfate, Total	Sample Measurement										
PARM Code 00945 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Chlorophyll-A, Phytoplankton	Sample Measurement										
PARM Code 32230 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			UG/L		Quarterly	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Water Level at samp. Collection time	Sample Measurement										
PARM Code 85327 V Mon.Site No. **WIM-S2** ~~WIM-07~~	Permit Requirement		Report (Max.)	Feet						**Continuous**	Grab
	Sample Measurement										
PARM Code Mon.Site No.	Permit Requirement										
	Sample Measurement										
PARM Code Mon.Site No.	Permit Requirement										
	Sample Measurement										
PARM Code Mon.Site No.	Permit Requirement										
	Sample Measurement										
PARM Code Mon.Site No.	Permit Requirement										

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: Emerald Coast Utilities Authority
MAILING ADDRESS: 401 West Government Street
Pensacola, FL 32501

FACILITY: Bayou Marcus Water Reclamation Facility
LOCATION: 3050 Fayal Drive
Pensacola, FL 32526
COUNTY: Escambia

PERMIT NUMBER FL0031801

LIMIT: Final
CLASS SIZE: Major

REPORT: Quarterly
GROUP: Domestic

MONITORING GROUP NUMBER: D-003
MONITORING GROUP DESC: Wetlands Monitoring
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To _____

WAFR SITE NO.: **WEP-S3** ~~WIM-08~~

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
CBOD5	Sample Measurement										
PARM Code 80082 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
TSS	Sample Measurement										
PARM Code 00530 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
pH	Sample Measurement										
PARM Code 00400 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Min.)	Report (Max.)		SU		Quarterly	Field Probe
Temperature, Water	Sample Measurement										
PARM Code 00010 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			°C		Quarterly	Field Thermometer
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Min.)			MG/L		Quarterly	Field Probe
Fecal Coliform Bacteria	Sample Measurement										
PARM Code 74055 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			#/100ML		Quarterly	Grab
TKN	Sample Measurement										
PARM Code 00625 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	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: Bayou Marcus Water Reclamation Facility MONITORING GROUP NUMBER: D-003 WAFR SITE NO: WIM-08
MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Ammonia Total	Sample Measurement										
PARM Code 00610 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			UMHOS/CM		Quarterly	Field Probe
NO2 + NO3, Total	Sample Measurement										
PARM Code 00630 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Sulfate, Total	Sample Measurement										
PARM Code 00945 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Chlorophyll-A, Phytoplankton	Sample Measurement										
PARM Code 32230 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			UG/L		Quarterly	Grab
Stream Stage	Sample Measurement										
PARM Code 34782 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement		Report (Max.)	Feet						Continuous	Grab
Water Level at samp. Collection time	Sample Measurement										
PARM Code 85327 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement		Report (Max.)	Feet						**Continuous**	Grab
Nitrogen, Total	Sample Measurement										
PARM Code 00600 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement					3.0 (An. Avg.)	Report Qtr (Max.)	MG/L		Quarterly	Grab
Nitrogen, Ammonia, Total Un-ionized (as N)	Sample Measurement										
PARM Code 00619 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement					0.02 (An. Avg.)	Report Qtr (Max.)	MG/L		Quarterly	Calculated
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement					0.2 (An. Avg.)	Report Qtr (Max.)	MG/L		Quarterly	Grab
Herbaceous Vegetation Sampling	Sample Measurement										
PARM Code 51052 W Mon.Site No. **WEP-S3** ~~WIM-08~~	Permit Requirement				Report (Max.)			Yes or No		Quarterly	Grab

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: Emerald Coast Utilities Authority
MAILING ADDRESS: 401 West Government Street
Pensacola, FL 32501

FACILITY: Bayou Marcus Water Reclamation Facility
LOCATION: 3050 Fayal Drive
Pensacola, FL 32526
COUNTY: Escambia

PERMIT NUMBER FL0031801

LIMIT: Final
CLASS SIZE: Major

REPORT: Quarterly
GROUP: Domestic

MONITORING GROUP NUMBER: D-003
MONITORING GROUP DESC: Wetlands Monitoring
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD From: _____ To _____

WAFR SITE NO.: **WIM-N1** ~~WIM-09~~

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
CBOD5	Sample Measurement										
PARM Code 80082 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
TSS	Sample Measurement										
PARM Code 00530 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
pH	Sample Measurement										
PARM Code 00400 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Min.)	Report (Max.)		SU		Quarterly	Field Probe
Temperature, Water	Sample Measurement										
PARM Code 00010 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			ºC		Quarterly	Field Thermometer
Oxygen, Dissolved (DO)	Sample Measurement										
PARM Code 00300 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Min.)			MG/L		Quarterly	Field Probe
Fecal Coliform Bacteria	Sample Measurement										
PARM Code 74055 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			#/100ML		Quarterly	Grab
TKN	Sample Measurement										
PARM Code 00625 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab

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

DISCHARGE MONITORING REPORT – PART A (Continued)

FACILITY: Bayou Marcus Water Reclamation Facility MONITORING GROUP NUMBER: D-003 WAFR SITE NO.: **WIM-N1** ~~WIM-09~~

MONITORING PERIOD From: _____ To _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Nitrogen, Ammonia Total	Sample Measurement										
PARM Code 00610 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			UMHOS/CM		Quarterly	Field Probe
NO2 + NO3, Total	Sample Measurement										
PARM Code 00630 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Sulfate, Total	Sample Measurement										
PARM Code 00945 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Chlorophyll-A, Phytoplankton	Sample Measurement										
PARM Code 32230 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			UG/L		Quarterly	Grab
Phosphorus, Total (as P)	Sample Measurement										
PARM Code 00665 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement				Report (Max.)			MG/L		Quarterly	Grab
Water Level at samp. Collection time	Sample Measurement										
PARM Code 85327 T Mon.Site No. **WIM-N1** ~~WIM-09~~	Permit Requirement		Report (Max.)	Feet						**Continuous**	Grab
	Sample Measurement										
PARM Code 51052 Mon.Site No.	Permit Requirement										
	Sample Measurement										
PARM Code Mon.Site No.	Permit Requirement										
	Sample Measurement										
PARM Code Mon.Site No.	Permit Requirement										
	Sample Measurement										
PARM Code Mon.Site No.	Permit Requirement										

GROUND WATER MONITORING WELL REPORT - PART D

County: Escambia
Facility Name: Bayou Marcus Water Reclamation Facility
Permit Number: FL0031801

Monitoring Well ID: **MWC-16**
Well Type: Surficial
Description: Compliance

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Time Sample Obtained: _____

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Monitoring Frequency	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Water Level Relative to NGVD	82545		Report	FEET	In-situ	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	MG/L	Grab	Quarterly				
Solids, Total Dissolved (TDS)	70295		500	MG/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10	UG/L	Grab	Quarterly				
Chloride (as Cl)	00940		250	MG/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5	UG/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100	UG/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15	UG/L	Grab	Quarterly				
Coliform, Fecal	74055		4	#/100ML	Grab	Quarterly				
pH	00400		6.5 to 8.5	SU	In-situ	Quarterly				
Sulfate, Total	00945		250	MG/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	Grab	Quarterly				
TKN	00625		Report	MG/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):