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**VIA ELECTRONIC CORRESPONDENCE**

July 30, 2014

CCN: 58580  
File No: 8DC.20.33

Chief, Clean Water Enforcement Branch  
Water Protection Division  
ATTN: Brad Ammons  
U.S. Environmental Protection Agency, Region 4  
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Florida Department of Environmental Protection  
Southeast District – Suite 200  
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West Palm Beach, FL 33401  
Attn: Compliance/Enforcement Section  
[Sed.wastewater@dep.state.fl.us](mailto:Sed.wastewater@dep.state.fl.us)

**RE:** Consent Decree (Case: No. 1:12-cv-24400-FAM),  
Reference DOJ Case No. 90-5-1-1-4022/1  
Section IX – Reporting Requirements, Paragraph 33 – Semi-Annual Report  
2014 Semi-Annual Report No. 1

Dear Mr. Ammons:

In accordance with the provisions of Paragraph 33 of the above referenced Consent Decree, on behalf of Miami-Dade County, the Miami-Dade Water and Sewer Department (MDWASD) submits to both the United States Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) the first Semi-Annual Report, that includes the progress made in implementing the requirements of the Consent Decree during the period of time from December 6, 2013 through June 30, 2014. The report also includes the anticipated work to be completed over the next two calendar quarters through December 31, 2014. Since this report is the first Semi-Annual Report, additional information has been provided on any work completed prior to the reporting period. The County has met all of the Consent Decree requirements for the previous two calendar quarters and is in full compliance with the Consent Decree.

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 such information, the information submitted is, to the best of my knowledge and belief, true, accurate

*Delivering Excellence Every Day*  
MIAMI-DADE  
COUNTY

Mr. Brad Ammons  
Paragraph 33, 2014 Semi-Annual Report No. 1  
July 30, 2014  
Page 2

and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Should you have any questions regarding this matter, please call me at (786) 552-8571.

Sincerely,



Juan Carlos Arteaga, AIA, NCARB, CBO, APA, LEED®AP  
**Deputy Director**

Attachment: **2014 Semi-Annual Report No. 1**

ec: Chief, Environmental Enforcement Section  
Environment and Natural Resources Division  
U.S. Department of Justice  
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Ben Franklin Station  
Washington, D.C. 20044-7611  
Re: DOJ No. 90-5-1-1-4022/1  
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## **Semi-Annual Report No. 1**

**January 1, 2014 through June 30, 2014**

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**Prepared for**

**United States Environmental Protection Agency and  
Florida Department of Environmental Protection**

**Consent Decree  
Case: No. 1:12-cv-24400-FAM**

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**Prepared by**

**Miami-Dade Water and Sewer Department and the  
Consent Decree Program Management Team**



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## Acronyms and Abbreviations

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AC	Asbestos Cement
BODR	Basis of Design Report
CMOM	Capacity, Management, Operations, and Maintenance
CDWWTP	Central District Wastewater Treatment Plant
CD	Consent Decree
CIP	Capital Improvement Project
CIPP	Cured in Place Pipe
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
FOG	Fats, Oils, and Grease
FDEP	Florida Department of Environmental Protection
GPD	Gallons per Day
GPM	Gallons per Minute
GIS	Geographic Information Systems
I/I	Inflow/Infiltration
IMS	Information Management System
LF	Linear Foot
MDWASD	Miami-Dade Water and Sewer Department
MGD	Million Gallons per Day
NPDES	National Pollutant Discharge Elimination System
N/A	Not Applicable
PDR	Public Document Repository
PS	Pump Station

RER-DERM	Department of Regulatory and Economic Resources-Division of Environmental Resources Management
RTU	Remote Telemetry Unit
R & R	Renewal and Replacement
SSO	Sanitary Sewer Overflow
SFPCD	Second and Final Partial Consent Decree
SEP	Supplemental Environmental Project
SORP	Sewer Overflow Response Plan
SCADA	Supervisory Control and Data Acquisition
VFD	Variable Frequency Drive
VSC	Volume Sewer Customer
WCTL	Wastewater Collection and Transmission Line
WCTS	Wastewater Collection and Transmission System
WWTP	Wastewater Treatment Plant

## 1.0 Executive Summary

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On May 21, 2013, Miami-Dade County ("County") approved a Consent Decree (CD) with the United States of America, the State of Florida Department of Environmental Protection, and the State of Florida, in the case styled *United States of America et. al. v. Miami-Dade County, Florida*, No. 1:12-cv-24400-FAM. On June 6, 2013 the CD was lodged with the United States District Court for the Southern District of Florida ("Court"). The Effective Date of the CD is December 6, 2013 (six months after the date of lodging).

The County submits this Semi-Annual Report ("Report") to the Environmental Protection Agency ("EPA") and the State of Florida Department of Environmental Protection ("FDEP") for review and comment in accordance with the requirements of paragraph 33 of the CD. In accordance with the CD, this Report includes a description of the projects and activities completed and milestones achieved during the previous two calendar quarters (January 1, 2014 through June 30, 2014), and also provides projections for significant projects and activities anticipated to be completed in the next two calendar quarters (July 1, 2014 through December 31, 2014). Moreover, since this Report is the first Semi-Annual Report, it includes the progress made in implementing the requirements of the Consent Decree during the period of time from December 6, 2013 through June 30, 2014 and additional information has been provided on any work completed prior to the reporting period.

In response to the Court's Notice on Proposed Consent Decree dated March 7, 2014, the County approved two resolutions which are attached as Appendix A and B ("Policy Resolutions").

During this reporting period, there were no transfers of funds from the Miami-Dade Water and Sewer Department ("MDWASD") that are required to be tracked and reported by Paragraph 19(j)(v) of the CD and the Policy Resolutions.

MDWASD has contracted with AECOM Consent Decree Program Management Construction Management (PMCM) Team to assist MDWASD to manage and implement its Consent Decree Program. The PMCM Team's Notice to Proceed was issued on June 2, 2014 by the County.

The County has met all of the CD requirements for the previous two calendar quarters and is in full compliance with the CD. The projects, activities, and milestones achieved, and the deliverables submitted to EPA/FDEP for review and comment are listed in Table 1-1. The upcoming projects, activities, milestones, and deliverables for the next two calendar quarters are listed in Table 1-2. Additional program and project information is included in the Progress Work Tables and Gantt charts in Appendix C.

**Table 1-1 Completed CD Projects, Activities, Milestones, and Deliverables**

<b>CD Projects, Activities, and Milestones</b>	<b>CD Reference</b>	<b>CD Deadline</b>	<b>Completion or Submittal Date</b>	<b>CD Compliant (Yes/No)</b>
Date of Lodging	Section IV, para 8	6/6/2013	6/6/2013	N/A
Effective Date	Section IV, para 8	12/6/2014	12/6/2014	N/A
Date of Entry	Section IV, para 8	4/9/2014	4/9/2014	N/A
Establish Public Document Repository (PDR) and notification system	Section V, para 9	N/A	4/2/2014	Yes
Make available a copy of each specified Deliverable in the Public Document Repository (PDR) no later than one business day from submission	Section V, para 9	Ongoing	Ongoing	Yes
Ensure adequate transmission and treatment capacity under the conditions of Appendix A	Section VI, para 18(a)	Ongoing	Ongoing	Yes
Amendment to Section 24-42.3 of the Code of Miami-Dade County for Adequate Pumping, Transmission and Treatment Capacity	Section VI, para 18(a)	6/4/2014	5/20/2014	Yes
Continue implementing existing Pump Station Monitoring Program	Section VI, para 18(b)	Ongoing	Ongoing	Yes
Amendments to Volume Sewer Customer (VSC) Program and VSC Ordinance	Section VI, para 18(e)(ii)	4/7/2014	3/14/2014	Yes
Submit to EPA/FDEP proposed amendment to the VSC Ordinance	Section VI, para 18(e)(iii)	4/7/2014	4/4/2014	Yes
Notification of Unpermitted Discharges to Surface Water	Section VI, para 19(b)	Within 24 hours and 5 days of known occurrence	Ongoing	Yes
2013 Unpermitted Discharges Contingency Plan	Section VI, para 19(b)	N/A	12/23/13	Yes
2013 Unpermitted Discharges Contingency (Revised) Plan	Section VI, para 19(b)	N/A	05/20/14	Yes
CDWWTP Septage Uploading Station – CIP Exhibit D-1 Project No. 2.20	Section VI, para 19(i) and Appendix D	6/3/2022	On January of 2013, Septage was no longer accepted at the CDWWTP. Project Closed Out	Yes
CDWWTP R&R SCADA RTU Upgrades – CIP Exhibit D-1 Project No. 2.28	Section VI, para 19(i) and Appendix D	3/29/2014	2/10/2014	Yes

**Table 1-1 Completed CD Projects, Activities, Milestones, and Deliverables (Continued)**

<b>CD Projects, Activities, and Milestones</b>	<b>CD Reference</b>	<b>CD Deadline</b>	<b>Completion or Submittal Date</b>	<b>CD Compliant (Yes/No)</b>
CDWWTP R&R High Strength Influent Impact Study – CIP Exhibit D-1 Project No. 2.29	Section VI, para 19(i) and Appendix D	6/24/2014	6/04/2014	Yes
Government Cut FM – Phase 1 & 2 CIP Exhibit D-1 Project No. 4.2	Section VI, para 19(i) and Appendix D	9/30/2013	9/26/2013	Yes
Pump Station Nos. 0086 and 0492 Upgrades - CIP Exhibit D-1 Project No. 5.14	Section VI, para 19(i) and Appendix D	12/31/2013	7/15/2013 and 4/25/13	Yes
Pump Station No. 0374 Upgrade - CIP Exhibit D-1 Project No. 5.15	Section VI, para 19(i) and Appendix D	12/31/2015	1/21/2014	Yes
Civil Penalty Payment to the U.S. Department of Justice	Section VII, para 21	5/9/2014	5/7/2014	Yes
Civil Penalty Payment to FDEP	Section VII, para 22	5/9/2014	5/5/2014	Yes
Quarterly Report No. 1	Section IX, para 32	5/1/2014	4/24/2014	Yes
Copy of all deliverables/reports made available to the public in the PDR	Section IX, para 36	Ongoing	Ongoing	Yes

**Table 1-2 Upcoming CD Projects, Activities, Milestones, and Deliverables in the Next Two Calendar Quarters**

<b>CD Projects, Activities, and Milestones</b>	<b>CD Reference</b>	<b>CD Deadline</b>	<b>Anticipated Completion or Submittal Date</b>
CMOM Programs	Section VI, para 18 & 19	Ongoing	Ongoing
Financial Analysis Program	Section VI, para 19(j)	12/7/2014	12/7/2014
Quarterly Report No. 2	Section IX, para 32	7/30/2014	7/30/2014
Quarterly Report No. 3	Section IX, para 32	10/30/2014	10/30/2014
Post Quarterly Reports Nos. 2 and 3, and Financial Analysis Program in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal

The following table is an “Issues Log” which includes issues that have been identified by MDWASD, Department of Regulatory and Economic Resources-Division of Environmental Resources Management (“RER-DERM”), EPA or FDEP in regard to the CD and any clarifications, decisions or resolutions of these issues.

<b>Item</b>	<b>Date</b>	<b>Description</b>	<b>Resolution/Clarification/Decision</b>
1	5/25/2014	MDWASD requested clarification of report formats.	MDWASD, EPA and FDEP agreed to send deliverables and other notifications via electronic mail. The County's questions concerning format of reports were answered by the EPA.
2	5/28/2014	Pursuant to Paragraph 76 of the CD, Miami-Dade is to fund FDEP at a rate of \$55,000 per year to monitor Miami-Dade's compliance within the terms of this Consent Decree	FDEP correspondence dated 05/28/2014 states that Miami-Dade's obligation to provide funding under OCG Case No.: 03-1376(A) has ceased and that a surplus balance of \$193,678.31 remains. FDEP will apply the surplus funds to cover the initial payments owed by Miami-Dade to track compliance with the CD as contemplated under Paragraph 76. Miami-Dade's payments of \$55,000 to the Department pursuant to Paragraph 76 of the CD will resume after the surplus funds are exhausted, assuming the CD has not otherwise terminated. At that point, FDEP will provide written notification to Miami-Dade regarding resumption of payment.
3	6/18/2014	The Federal Judge's Resolution requires the US Attorneys to submit a status report no later than 30 days after receipt of the County's submission of its first and subsequent Semi-Annual Report to the EPA and FDEP. Bertha Goldenberg asked Brad Ammons if they would like MDWASD to provide additional information to assist EPA in preparing the report to the Federal Court.	Brad Ammons requested that MDWASD add a column to the Quarterly Report SSO table to include how the SSO was resolved per the requirements of Paragraph A(ii) of the Federal Judge's Resolution to the Semi-Annual Report. Brad also requested that if the problem required a longer term solution, then MDWASD should make a general statement that the solution will require the implementation of a replacement or rehabilitation project. This additional information is not required by the Consent Decree; however, it will aid EPA in preparing the Federal Judge's report. MDWASD will send to EPA a revised SSO Table to include this information for Quarterly Report No. 1.

## 2.0 Introduction

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### 2.1 Purpose

On April 9, 2014, the Court approved a CD with the United States of America, the State of Florida Department of Environmental Protection, and the State of Florida. Pursuant to Section IX of the CD, the County is required to submit a Semi-Annual Report to EPA and FDEP. Six years from the Effective Date of the Consent Decree and each subsequent year until termination, the United States, FDEP, and Miami-Dade agree to consider whether to discontinue the Semi-Annual Reports. If the United States, FDEP and Miami-Dade agree to discontinue the Semi-Annual Report, such modification shall be considered a non-material change to this CD pursuant to Section XX (Modification); and the information required in Subparagraphs 33(a) through (d) in the CD shall then be included in each Annual Report submitted pursuant to Paragraph 34 of the CD and shall cover the applicable Calendar Year rather than two (2) Calendar Quarters. Miami-Dade has prepared this Semi-Annual Report to satisfy the reporting requirements found in Paragraph 33 of the CD.

### 2.2 Requirements

As detailed in Section IX of the CD, the County is required to report the following information concerning compliance with the remedial actions set forth under the CD.

1. A description of projects and activities completed and milestones achieved during the previous two (2) calendar quarters pursuant to the requirements of this CD, in Gantt chart or similar format, including a description of the status of compliance or non-compliance with the requirements of this CD and, if applicable, the reasons of non-compliance;
2. A summary of significant projects and activities anticipated to be performed, and milestones anticipated to be achieved, in the successive two (2) calendar quarters to comply with the requirements of the CD, in Gantt or similar format;
3. The amount, recipient and the date of transfer or use during the previous two (2) calendar quarters of funds obtained by the County from the collection of sewer rates for any purpose not related to the management, operation or maintenance of the Sewer System or to any capital improvement needs of the Sewer System that is required to be tracked and reported pursuant to the Financial Analysis Program set forth in Subparagraph 19(j)(v) of the CD;
4. Any additional information the County determines is appropriate to demonstrate that the County is implementing the remedial actions required under the CD in an adequate and timely manner.

### **2.3 Reporting Schedule**

Pursuant to Paragraph 33 of the CD, semi-annual reports are to be submitted to the EPA and FDEP beginning (1) month after the first two (2) calendar quarters following the Effective Date of the CD, and (1) month after each subsequent two (2) calendar quarters until termination of the CD. Since the Effective Date of the CD is December 6, 2013, the first Semi-Annual Report is due by July 30, 2014 according to the above requirement. Subsequent Semi-Annual Reports will be submitted pursuant to Paragraph 33 of the CD. As indicated in Section 2.1 of the Introduction, six years from the Effective Date of the Consent Decree and each subsequent year until termination, the United States, FDEP, and Miami-Dade agree to consider whether to discontinue the Semi-Annual Reports.

### **2.4 Reporting Structure**

Work progress is presented in the body of the Report in a narrative format as well as in Tables found in Appendix C. The narrative includes a brief description of each CD project, as well as any activities completed or milestones that were achieved in the previous two calendar quarters and those anticipated to be completed in the next two calendar quarters. In addition to these descriptions, a schedule containing each of the projects in Gantt chart format is provided in Appendix D.

## **3.0 Work Progress**

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### **3.1 Continuation of Capacity, Management, Operations and Maintenance ("CMOM") Programs of the First Partial Consent Decree and Second and Final Partial Consent Decree – Paragraph 18**

A summary of the continuing CMOM programs and their status for the previous two calendar quarters and the next two calendar quarters can be found in Table C-1.1 in Appendix C.

### **3.2 New CMOM Programs – Paragraph 19(a) through (h), (j)**

A summary of the new CMOM programs in Paragraphs 19(a) through (h) and their status for the previous two calendar quarters and the next two calendar quarters can be found in Table C-2.1 in Appendix C.

#### **3.2.1 Specific Capital Improvement Projects ("CIPs") Program – Paragraph 19(i)**

Based on previous investigations the County has identified certain rehabilitation projects that are intended to address conditions currently causing SSOs or contributing to NPDES permit violations. In accordance with Paragraph 19(i), these specific capital improvements are identified and described in the Work Plan set forth in Appendix D of the CD. A summary of these CIPs and their status for the previous two calendar quarters and the next two calendar quarters can be found in Tables C-3.1, C-3.2 and C-3.3 for the WWTPs, Tables C-4.1 and C-4.2 for the WCTLs and Table C-5.1 for the Sewer Pump Station Systems in Appendix C.

### **3.3 Public Document Repository - Paragraph 9**

Pursuant to Paragraph 9 of the CD, the County is required to have in place a Public Document Repository ("PDR") prior to submittal of the first deliverable. MDWASD's office located at 3071 SW 38th Avenue and MDWASD's website, <http://www.miamidade.gov/water>, constitute the PDR. The County established the PDR on April 2, 2014 and posted the first deliverable on April 4, 2014. The notification system is also in place. A copy of each deliverable will be made available by the County in the PDR no later than one business day from submission of a deliverable to EPA and FDEP. The County will continue to update the PDR.

### **3.4 Civil Penalty**

Compliance with Section VII of the CD requires the payment of the sum of \$978,100 as a civil penalty. Payment of the civil penalty is to be made as follows: the County shall pay to the United States \$511,800 of the civil penalty due by Fed Wire Electronic Funds Transfer ("EFT") to the U.S. Department of Justice; and pay to FDEP \$466,300 of the civil penalty due by check payable to the "Florida Department of Environmental Protection."

### **3.4.1 Payment - Paragraphs 21 and 22**

In accordance with Paragraphs 21 of the CD, the cash payment of \$511,800 was made to the U.S. Department of Justice by EFT on May 7, 2014. In addition, in accordance with Paragraph 22, a check for \$466,300 was sent to FDEP on May 5, 2014. Both payments were sent ahead of the May 9, 2014 compliance date.

### **3.5 Supplemental Environmental Project (“SEP”) Plan**

This project is being performed pursuant to Section VIII and Appendix E of the CD. The County has identified an area in the County which is zoned business, commercial, and industrial, from light to heavy manufacturing where there currently is no access to sewers, and where septic systems are inadequate or failing and many businesses pre-date the current septic system regulations. Disconnecting the industrial users from septic tanks and connecting them to the sewer system will improve water quality in the aquifer and nearby surface waters, and prevent future contamination. Miami-Dade will install at least seven thousand six hundred sixty (7,660) linear feet of Gravity Sewer Mains within an industrial area which currently has no access to sanitary sewers and relies on septic systems.

The SEP Plan has been developed. In the previous two calendar quarters, a meeting was held with RER-DERM to review identified properties and industrial users abutting the proposed gravity sewer extensions. Validation of the project scope is anticipated to be completed in the next two calendar quarters prior to selecting a design consultant.

## **4.0 Additional Information**

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According to Paragraph 33(d), this report shall include "any additional information Miami-Dade determines is appropriate to demonstrate that Miami-Dade is implementing the remedial actions required under this Consent Decree in an adequate and timely manner."

### **4.1 State's Ocean Outfall Legislation (OOL)**

In 2008, the Florida Legislature approved a law requiring all wastewater facilities in southeast Florida utilizing ocean outfalls for disposal of treated wastewater to reduce nutrient discharges by 2018, cease using the outfalls by 2025, and install a functioning reuse system by 2025. A MDWASD Central & North WWTFs Ocean Outfall Detailed Plan was submitted to FDEP on June 28, 2013 which meets the requirements of Subsection 403.086(9)(e)1 of the Florida Statutes (F.S.) and Part III.2 of Administrative Order (AO) Nos. AO-06-006 DW-13-SED & AO-09-008-DW-13-SED. FDEP's review comments for the Ocean Outfall Legislation Plan were received in a letter dated February 4, 2014. As requested in their letter, MDWASD will address the review comments in the Five Year Status Report referenced in Part III.1 of the aforementioned AOs and required by Section 403.086(9)(f), Florida Statutes, on or before December 31, 2014.

The EPA, FDEP and the County acknowledge that the County's implementation of the Ocean Outfall Legislation may impact the scope of scheduling of certain capital improvement projects identified in Appendix D. Pursuant to Paragraph 19(i), any modifications agreed upon in writing by the EPA, FDEP and the County to this list of projects or schedules set forth in Appendix D shall constitute a non-material change to the CD as set forth in Section XX (Modification). The County is in the process of procuring an OOL consultant to assist the County in managing and implementing this Plan.

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**Appendix A**  
**Resolution Approving Modification to Consent Decree**

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# MEMORANDUM

Agenda Item No. 11(A)(9)

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**TO:** Honorable Chairwoman Rebeca Sosa  
and Members, Board of County Commissioners

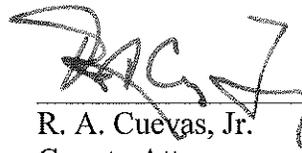
**DATE:** March 18, 2014

**FROM:** R. A. Cuevas, Jr.  
County Attorney

**SUBJECT:** Resolution approving Mayor's  
recommendations relating to  
proposed Consent Decree with  
Federal and State Environmental  
Enforcement agencies and  
authorizing the Mayor and  
County Attorney to modify  
proposed Consent Decree and  
advise the Court accordingly

---

The accompanying resolution was prepared and placed on the agenda at the request of Prime Sponsor Chairwoman Rebeca Sosa.

  
\_\_\_\_\_  
R. A. Cuevas, Jr.  
County Attorney

RAC/cp

**Date:** March 18, 2014

**To:** Honorable Chairwoman Rebeca Sosa  
and Board, of County Commissioners

**From:** Carlos A. Gimenez  
Mayor   
R. A. Cuevas, Jr.  
County Attorney 

**Subject:** Water and Sewer Consent Decree Status

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## COUNTY'S HISTORIC AND CURRENT COMPLIANCE WITH CONSENT DECREES

Over the course of almost twenty (20) years, the County has never missed a submission or delivery deadline required by the two existing Clean Water Act Consent Decrees. This Administration has every intention of maintaining that perfect record of scheduling and project management.

To that end, consistent with the deadlines in the proposed Consent Decree, this Administration has already timely completed Phase I and II of the project to replace the 54-inch underwater force main from Miami Beach to Fisher Island and has begun work on Phase III of the project from Fisher Island to Virginia Key. Additionally, the Board of County Commissioners (Board) recently approved an ordinance (file number 132506) required by the proposed Consent Decree relating to volume sewer customers, and an additional ordinance relating to adequate treatment and transmission capacity—also required by the proposed Consent Decree—is scheduled for first reading on March 18, 2014.

## COURT'S NOTICE ON PROPOSED CONSENT DECREE

As you may already be aware, on Friday, March 7, 2014, the Court entered a Notice on the proposed Consent Decree. A copy of the Notice is attached hereto. In the Notice, the Court suggested that by March 21, 2014, the parties provide additional submissions to the Court with regard to two issues: (1) possible appointment of a special master to oversee the repairs and ensure that funding for Consent Decree projects does not get transferred to non-environmental projects, and (2) possible increased stipulated penalties for failure to complete projects on schedule. These are suggestions from the Court that, according to the Court, would enhance the Court's confidence in the County's compliance with the Clean Water Act. Accordingly, in an effort to work with the Court's suggestions to move the Consent Decree forward, the Administration proposes the following recommendations:

1. The County will provide the Court with a report regarding the County's compliance with the requirements of the Consent Decree on a semi-annual basis. If, in the future, after reviewing the County's submissions, the Court believes that additional oversight is necessary to oversee the County's compliance with the Consent Decree, the County agrees to pay for any additional oversight required by the Court.
2. The County will agree to double the stipulated penalties throughout Consent Decree.

3. The proposed Consent Decree already requires the County to notify the federal and state enforcement agencies prior to any transfer or use of funds obtained by the County "from the collection of sewer rates for any purpose not related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System" with the exception of "funds internally used within the Miami-Dade Water and Sewer Department and funds transferred or used to administratively reimburse other departments or agencies within the County for services rendered to the Miami-Dade Water and Sewer Department for purposes related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System." In furtherance of this objective, the Administration recommends to the Board that the Board pass a resolution setting forth a County policy that neither the Mayor nor Board will transfer or use funds obtained by the County "from the collection of sewer rates for any purpose not related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System" with the exception of "funds internally used within the Miami-Dade Water and Sewer Department and funds transferred or used to administratively reimburse other departments or agencies within the County for services rendered to the Miami-Dade Water and Sewer Department for purposes related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System." To the extent that the Board or Mayor proposes to change this County policy at some point in the future, the County will notify the Court and the enforcement agencies of the proposed policy change.
  
4. The Mayor will recommend to the Board passage of an ordinance accelerating the procurement process specific to Consent Decree projects. The Board has approved similar accelerate ordinances in the past, including Miami-Dade County Code §2-8.1.6, Expedited Purchasing Program; Miami-Dade County Code § 2-285.1, North Terminal; Miami-Dade County Code §2-8.2.7, Economic Stimulus; and Miami-Dade County Code §2-8.2.11, WASD Accelerate Ordinance.

The first two recommendations would be included in the Consent Decree following approval by the state and federal enforcement agencies. The County Attorney's Office is already in contact with them to discuss the issues.

The Board will continue to be notified of any developments on this matter. Cooperation is absolutely essential and most appreciated as we continue to work towards our common goal of performing the Consent Decree projects in an expeditious and efficient manner to further protect the environment and the public's health, safety and welfare.

UNITED STATES DISTRICT COURT FOR THE  
SOUTHERN DISTRICT OF FLORIDA  
Miami Division

**Case Number: 12-24400-CIV-MORENO**

UNITED STATES OF AMERICA, STATE OF  
FLORIDA, and STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION,

Plaintiffs,

vs.

MIAMI-DADE COUNTY, FLORIDA,

Defendant.

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**NOTICE ON PROPOSED CONSENT DECREE**

THIS CAUSE came before the Court upon the Motion to Enter Consent Decree (D.E. No. 86), filed on November 26, 2013.

After careful review, the Court suggests that the parties' submit additional pleadings before it can approve the settlement and enter a Consent Decree. Possible additions to the settlement that would enhance the Court's confidence in compliance by Miami-Dade County with the Clean Water Act could be (1) the appointment of a Special Master to oversee that the repairs that have been promised continue and that the funding for them does not get deviated to other non-environmental projects that the County may deem more important and (2) an increase in the penalties the County would be required to pay for failing to make the repairs.

The Court recognizes that the County, its leader Mayor Gimenez, and both executive branches of the State of Florida and the United States have the same goal by this proposed Consent Decree -- to maintain Miami-Dade County's sewage system in a manner that protects the residents'

health and the surrounding environment. Court supervision, through a Special Master, and heftier penalties for non-compliance would assist the Court in enforcing the settlement entered into by Florida, the United States, and Miami-Dade County.

The remaining objections are overruled as not sufficient to overcome the presumption in favor of approval of the proposed Consent Decree. The parties may submit any additional comments, including proposed supplemental agreements to the Consent Decree by March 21, 2014. After that date, the Court will enter a final ruling, either rejecting or approving the settlement.

DONE AND ORDERED in Chambers at Miami, Florida, this 6<sup>th</sup> day of March, 2014.



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FEDERICO A. MORENO  
UNITED STATES DISTRICT JUDGE

Copies provided to:

Counsel of Record



**MEMORANDUM**  
(Revised)

**TO:** Honorable Chairwoman Rebeca Sosa  
and Members, Board of County Commissioners

**DATE:** March 18, 2014

**FROM:**   
R. A. Cuevas, Jr.  
County Attorney

**SUBJECT:** Agenda Item No. 11(A)(9)

Please note any items checked.

- "3-Day Rule" for committees applicable if raised
- 6 weeks required between first reading and public hearing
- 4 weeks notification to municipal officials required prior to public hearing
- Decreases revenues or increases expenditures without balancing budget
- Budget required
- Statement of fiscal impact required
- Ordinance creating a new board requires detailed County Mayor's report for public hearing
- No committee review
- Applicable legislation requires more than a majority vote (i.e., 2/3's \_\_\_\_, 3/5's \_\_\_\_, unanimous \_\_\_\_ ) to approve
- Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved \_\_\_\_\_ Mayor  
Veto \_\_\_\_\_  
Override \_\_\_\_\_

Agenda Item No. 11(A)(9)  
3-18-14

RESOLUTION NO. \_\_\_\_\_

RESOLUTION APPROVING MAYOR'S  
RECOMMENDATIONS RELATING TO PROPOSED  
CONSENT DECREE WITH FEDERAL AND STATE  
ENVIRONMENTAL ENFORCEMENT AGENCIES AND  
AUTHORIZING THE MAYOR AND COUNTY ATTORNEY  
TO MODIFY PROPOSED CONSENT DECREE AND ADVISE  
THE COURT ACCORDINGLY

**WHEREAS**, Miami-Dade County has entered into a proposed Consent Decree with the Environmental Protection Agency, the State of Florida and the Florida Department of Environmental Protection (collectively, the "Enforcement Agencies") that settles all environmental violations and brings the County's wastewater system into compliance with the Clean Water Act; and

**WHEREAS**, the proposed Consent Decree is currently pending before the United States District Court for the Southern District of Florida (the "Federal Court") for approval; and

**WHEREAS**, on March 7, 2014, the Court sent the parties a Notice on the proposed Consent Decree in which the Court suggested that by March 21, 2014, the parties provide additional submissions to the Court with regard to two issues: (1) possible appointment of a special master to oversee the repairs and ensure that funding for Consent Decree projects does not get transferred to non-environmental projects, and (2) possible increased stipulated penalties for failure to complete projects on schedule; and

**WHEREAS**, the Mayor has provided this Board with recommendations in the attached memorandum ("Mayor's Recommendations") that address the Federal Court's concerns regarding the enforcement of the proposed Consent Decree and the County's compliance with the Clean Water Act; and

**WHEREAS**, this Board desires to ensure that the Federal Court should have full confidence in the County's commitment to comply with the requirements of the proposed Consent Decree, including the timely completion of all work on the wastewater system,

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA**, that:

Section 1. The Board approves the Mayor's Recommendations relating to the proposed Consent Decree with the Enforcement Agencies, as provided in the attached memorandum which is incorporated herein and made a part hereof, and authorizes the Mayor and County Attorney to advise the Court of the following modifications to the proposed Consent Decree subject to agreement by the Enforcement Agencies:

(a) The Court will be provided with a semi-annual report regarding the County's compliance with the requirements of the Consent Decree. If, in the future, after reviewing the County's submissions, the Court believes that additional oversight is necessary to oversee the County's compliance with the Consent Decree, the County agrees to pay the reasonable expenses associated with the additional oversight required by the Court; and

(b) The County will agree to double the amount of the stipulated penalties throughout the Consent Decree.

Section 2. The Board further authorizes the Mayor and County Attorney to advise the Court that the Board shall approve in a separate resolution a County policy that neither the Board nor the County Mayor will recommend, transfer or use funds obtained by the County "from the collection of sewer rates for any purpose not related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System" with the exception of "funds internally used within the Miami-Dade Water and Sewer

Department and funds transferred or used to administratively reimburse other departments or agencies within the County for services rendered to the Miami-Dade Water and Sewer Department for purposes related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System.” In the event that the Board proposes to change this County policy in any way, the County will provide notice of such proposed change to the Federal Court and Enforcement Agencies before any such change is adopted.

The Prime Sponsor of the foregoing resolution is Chairwoman Rebeca Sosa. It was offered by Commissioner \_\_\_\_\_, who moved its adoption. The motion was seconded by Commissioner \_\_\_\_\_ and upon being put to a vote, the vote was as follows:

Rebeca Sosa, Chairwoman  
Lynda Bell, Vice Chair

Bruno A. Barreiro  
Jose "Pepe" Diaz  
Sally A. Heyman  
Jean Monestime  
Sen. Javier D. Souto  
Juan C. Zapata

Esteban L. Bovo, Jr.  
Audrey M. Edmonson  
Barbara J. Jordan  
Dennis C. Moss  
Xavier L. Suarez

The Chairperson thereupon declared the resolution duly passed and adopted this 18<sup>th</sup> day of March, 2014. This resolution shall become effective ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.

MIAMI-DADE COUNTY, FLORIDA  
BY ITS BOARD OF  
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By: \_\_\_\_\_  
Deputy Clerk

Approved by County Attorney as  
to form and legal sufficiency.



Henry N. Gillman

**Appendix B**  
**Resolution of Commitment Not to Transfer Funds**

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# MEMORANDUM

Agenda Item No. 11(A)(10)

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**TO:** Honorable Chairwoman Rebeca Sosa  
and Members, Board of County Commissioners

**DATE:** March 18, 2014

**FROM:** R. A. Cuevas, Jr.  
County Attorney

**SUBJECT:** Resolution setting forth  
County's commitment to not  
make transfers from the Miami-  
Dade Water and Sewer  
Department

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The accompanying resolution was prepared and placed on the agenda at the request of Prime Sponsor Chairwoman Rebeca Sosa.



---

R. A. Cuevas, Jr.  
County Attorney

RAC/jls



**MEMORANDUM**  
(Revised)

**TO:** Honorable Chairwoman Rebeca Sosa  
and Members, Board of County Commissioners

**DATE:** March 18, 2014

**FROM:** R. A. Cuevas, Jr.  
County Attorney

**SUBJECT:** Agenda Item No. 11(A)(10)

Please note any items checked.

- "3-Day Rule" for committees applicable if raised
- 6 weeks required between first reading and public hearing
- 4 weeks notification to municipal officials required prior to public hearing
- Decreases revenues or increases expenditures without balancing budget
- Budget required
- Statement of fiscal impact required
- Ordinance creating a new board requires detailed County Mayor's report for public hearing
- No committee review
- Applicable legislation requires more than a majority vote (i.e., 2/3's \_\_\_\_, 3/5's \_\_\_\_, unanimous \_\_\_\_ ) to approve
- Current information regarding funding source, index code and available balance, and available capacity (if debt is contemplated) required

Approved \_\_\_\_\_ Mayor

Agenda Item No. 11(A)(10)

Veto \_\_\_\_\_

3-18-14

Override \_\_\_\_\_

RESOLUTION NO. \_\_\_\_\_

RESOLUTION SETTING FORTH COUNTY'S COMMITMENT  
TO NOT MAKE TRANSFERS FROM THE MIAMI-DADE  
WATER AND SEWER DEPARTMENT

**WHEREAS**, Miami-Dade County has entered into a proposed Consent Decree with the Environmental Protection Agency, the State of Florida and the Florida Department of Environmental Protection (collectively, the "Enforcement Agencies") in order to get the County's wastewater treatment system into compliance with the Clean Water Act; and

**WHEREAS**, the proposed Consent Decree is currently pending before the United States District Court for the Southern District of Florida (the "Federal Court") for approval; and

**WHEREAS**, the proposed Consent Decree requires the County to notify the Enforcement Agencies if the County intends to transfer or use funds obtained by the County "from the collection of sewer rates for any purpose not related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System" with the exception of "funds internally used within the Miami-Dade Water and Sewer Department and funds transferred or used to administratively reimburse other departments or agencies within the County for services rendered to the Miami-Dade Water and Sewer Department for purposes related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System"; and

**WHEREAS**, the Federal Court has suggested that further assurances from the County that it will not transfer any monies out of the Miami-Dade Water & Sewer Department in a way that would be inconsistent with the above provision of the Consent Decree would enhance the Court's confidence in the County's compliance with the Clean Water Act,

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY COMMISSIONERS OF MIAMI-DADE COUNTY, FLORIDA,** that the Board hereby states that, assuming the Consent Decree is approved by the Federal Court, it shall be the County's policy that, during the duration of the Consent Decree, neither the Board nor the County Mayor will recommend, make or use funds obtained by the County "from the collection of sewer rates for any purpose not related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System" with the exception of "funds internally used within the Miami-Dade Water and Sewer Department and funds transferred or used to administratively reimburse other departments or agencies within the County for services rendered to the Miami-Dade Water and Sewer Department for purposes related to the management, operation, or maintenance of the Sewer System or to any capital improvement needs of the Sewer System." In the event that the Board proposes to change this County policy in any way, the County will provide notice of such proposed change to the Federal Court and Enforcement Agencies before any such change is adopted.

The Prime Sponsor of the foregoing resolution is Chairwoman Rebeca Sosa. The motion was seconded by Commissioner \_\_\_\_\_ and upon being put to a vote, the vote was as follows:

	Rebeca Sosa, Chairwoman
	Lynda Bell, Vice Chair
Bruno A. Barreiro	Esteban L. Bovo, Jr.
Jose "Pepe" Diaz	Audrey M. Edmonson
Sally A. Heyman	Barbara J. Jordan
Jean Monestime	Dennis C. Moss
Sen. Javier D. Souto	Xavier L. Suarez
Juan C. Zapata	

The Chairperson thereupon declared the resolution duly passed and adopted this 18<sup>th</sup> day of March, 2014. This resolution shall become effective ten (10) days after the date of its adoption unless vetoed by the Mayor, and if vetoed, shall become effective only upon an override by this Board.

MIAMI-DADE COUNTY, FLORIDA  
BY ITS BOARD OF  
COUNTY COMMISSIONERS

HARVEY RUVIN, CLERK

By: \_\_\_\_\_  
Deputy Clerk

Approved by County Attorney as  
to form and legal sufficiency.

SED

Sarah E. Davis

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## Appendix C Work Progress Tables

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**Table C-1.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree**

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
18(a)	Adequate Pumping, Transmission and Treatment Capacity	The Adequate Pumping, Transmission and Treatment Capacity Program is being implemented in accordance with Paragraph 18(a) of the CD. This program ensures adequate transmission capacity for its Pump Stations and adequate treatment capacity for its WWTPs. Pursuant to Appendix A of the CD, certifications are performed by Department of Regulatory and Economic Resources-Division of Environmental Resources Management ("RER-DERM") and kept on file by MDWASD. The EPA can have access to these reports upon request.	The County submitted to the EPA and FDEP an amendment to Section 24-42.3 of the Code of Miami-Dade County to incorporate the criteria in Appendix A of the CD on May 20, 2014 ahead of the June 4, 2014 CD deadline.	Work on the program is ongoing and will continue throughout 2014.
18(b)	Pump Station Remote Monitoring Program	The Pump Station Remote Monitoring Program is being implemented in accordance with Paragraph 18(b) of the CD. The continuing program involves the installation and operation of remote monitoring equipment in all Pump Stations in the Wastewater Collection and Transmission System (WCTS) within 6 months after the County becomes operationally responsible for Pump Station.	Work on the program has been ongoing.	Program will continue throughout 2014.
18(c)	Waste Collection and Transmission Model	The WCTS model is being implemented in accordance with Paragraph 18(c) of the CD. The model assists in the development and implementation of CMOM programs to optimize transmission capacity and to evaluate the impact of I/I rehabilitation projects; proposed modifications, upgrades and expansions to the WCTS; and performance of the WCTS. The WCTS model can also be used to simulate the manifolded Force Mains and private Pump Stations which manifold into the County's Force Main system.	Work included: the input of CD projects into the model; collection of latest ArcGIS files and development of draft plan for ongoing model update; initiating model verification process; the input of dry and wet weather flow data into model; and, developing post-processing tool for comparison of SCADA information and model results.	Work to include: completion of refinement/ verification of model; development of baseline scenario; and, CD projects validation and prioritization with inclusion of proposed OOL and PSIP projects.

**Table C-1.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree**

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
18(d)	Spare Parts Program	The Spare Parts Program is being implemented in accordance with Paragraph 18(d) of the CD. This program is a continuing inventory management program for spare parts for the WCTS and WWTPs.	Work on the program has been ongoing.	The program will continue throughout 2014 with no major milestones anticipated in the second half of the year.
18(e)	Volume Sewer Customer Ordinance Program	The Purpose of this program is to eliminate or otherwise control SSOs from the WCTS and the collection and transmission systems of present and future VSCs. The VSC Program and the VSC Ordinance were amended in accordance with Paragraph 18(e) of the CD.	The amendment to the VSC Ordinance pursuant to Paragraph 18(e)(ii) was submitted to the EPA and FDEP on March 14, 2014. Pursuant to Paragraph 18(e)(iii), a draft was also written to include scheduling requirements and an approved VSC Plan of Compliance as defined in Appendix B of the CD. These proposed changes were submitted to the EPA /FDEP on April 4, 2014. The CD compliance date for submittal of both amendments in Paragraph 18(e) was April 7, 2014. The Guideline for the Preparation of the Plan of Compliance was distributed to VSCs in April 2014 by RER-DERM. In Addition, RER-DERM has held three Utility Round Table meetings (prior to June 30th) with the VSCs to share information about the draft amended VSC Ordinance and provide technical presentations on CMOM programs.	EPA/FDEP to approve VSCO. County will enact amended VSCO within 180 days of receipt of EPA/FDEP approval.

**Table C-2.1 New CMOM Programs**

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
19(a)	Fats, Oils and Grease Control Program	The FOG Control Program is being implemented in accordance with Paragraph 19(a) of the CD. The program allows the County to regulate industrial and commercial sources of oil and grease. In addition, this program involves a review, evaluation and revision of the County's previous program. RER-DERM has organized the FOG Control Program into the following three projects; Project 1: FOG Characterization, Control Device Design, and Management, Operation and Maintenance Standards, Project 2: FOG Control Inspections, Enforcement, Compliance and Outreach, and Project 3: FOG Ordinance and Enforcement Management.	As of June 30, 2014, the FOG Characterization Study was substantially completed and subtasks for the FOG Control Device Design were approximately fifty (50) percent completed.	The FOG Control Device Design subtasks, excluding the Third Party Testing and Certification and IMD subtask, should be substantially completed by September 2014. The remaining task under Project 1, Management, Operation and Maintenance Standards, should be substantially completed by December 2014.
19(b)	Sewer Overflow Response Plan	The SORP is a program for identifying and reporting SSOs. The SORP is being implemented in accordance with Paragraph 19(b). This Plan will establish timely and effective methods and means of responding to, cleaning up, and/or minimizing the impact of SSOs; timely reporting of the location, volume, cause, impact, and other pertinent SSO information to the appropriate regulatory agencies; and timely and effective notification of SSOs to potentially impacted public. In addition, the plan involves a re-evaluation of the County's previous program.	MDWASD is in the process of acquiring a CMOM consultant to assist with this program.	Work will be awarded over the next two calendar quarters.
19(c)	Information Management System Program	The IMS Program is being developed in accordance with Paragraph 19(c). This plan will aid County managers and field supervisors to adequately track scheduled operational and maintenance activities; evaluate operations, maintenance, customer service and Sewer System rehabilitation activities and improve overall Sewer System performance.	Proposals for providing engineering services for this project were submitted and are under review.	Work will be awarded over the next two calendar quarters.

**Table C-2.1 New CMOM Programs**

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
19(c)(x)	Geographic Information Systems Program	The GIS Program is being developed in accordance with Paragraph 19(c)(x). This program will improve the existing map of the County's entire WCTS. The scope of work for this program involves completing the estimated 1800 GIS backlog projects and estimated 2000 reported GIS data inconsistencies prior to June 7, 2017.	The GIS Utility Backlog project was awarded.	This program will be ongoing.
19(d)	Sewer System Asset Management Program	The Sewer System Asset Management Program is being developed in accordance with Paragraph 19(d). This asset management program will maintain a desired level of service for The County's Sewer System considering life cycle cost to ensure compliance with regulatory requirements and the CD.	Proposals for providing engineering services for this project were submitted and are under review.	Work will be awarded over the next two calendar quarters.
19(e)	Gravity Sewer System Operations and Maintenance Program	The Gravity Sewer System Operations and Maintenance Program is being developed in accordance with Paragraph 19(e) of the CD. This program will address SSOs, particularly those caused by FOG, roots and/or debris obstructions.	Scoping of this program is underway.	This program will be developed over the next two calendar quarters.
19(f)	Pump Station Operations and Preventive Maintenance Program	The Pump Station Operations and Preventive Maintenance Program is being developed in accordance with Paragraph 19(f) of the CD. This program will facilitate proper operation and maintenance activities associated with the Pump Stations within the WCTS.	Proposals for providing engineering services for this project were submitted and are under review.	Work will be awarded over the next two calendar quarters. There are no major milestones anticipated in the second half of the year.

**Table C-2.1 New CMOM Programs**

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
19(g)	Force Main Operations, Preventive Maintenance and Assessment/Rehabilitation Program	The Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program is being developed in accordance with Paragraph 19(g) of the CD. This program will facilitate proper operations and maintenance activities associated with Force Mains within the WCTS. It will also help produce a criticality assessment of the structural integrity of its Force Mains and the risk of Force Main critical failure.	MDWASD is in the process of acquiring a CMOM consultant to assist with this program. In the interim; however, MDWASD has conducted condition assessments of prestressed concrete cylindrical pipe force mains.	Assessments will be ongoing and repair/rehabilitation designs are expected to begin in the next two calendar quarters.
19(h)	WWTP Operations and Maintenance Program	The WWTP Operations and Maintenance Program is being developed in accordance with Paragraph 19(h) in the CD. This program will facilitate proper operation, maintenance and equipment replacement activities associated with the WWTPs.	Proposals for providing engineering services for this project were submitted and are under review.	Work will be awarded over the next two calendar quarters. There are no major milestones anticipated in the second half of the year.
19(j)	Financial Analysis Program	The Financial Analysis Program is being implemented in accordance with Paragraph 19(j) of the CD. The purpose of this program is to effectively establish and track the sufficiency of funds for operations and maintenance, capital projects financing, and debt service coverage associated with the Sewer System, including, without limitation, the continued Work pursuant to the CD.	This program is under development.	This program will be completed and submitted to the EPA/FDEP by the CD compliance date of December 8, 2014.

**Table C-3.1 South District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
1.1	Headworks	The SDWWTP Headworks project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves routine repairs on existing bar screen mechanisms in headwork structure prior to aerated grit chambers. Failure of bar screen mechanism could result in the blinding of the bar screen and cause an overflow of raw sewage from the plant headworks structure towards nearby surface waters, especially during peak wet weather.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
1.2	Oxygen Production	The SDWWTP Oxygen Production project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace and retrofit existing air compression units.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
1.3	Oxygenation Trains	The SDWWTP Oxygen Trains project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to retrofit aeration mixers and rehabilitate and apply surface coating to the structure.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
1.4	Chlorine Building	The SDWWTP Chlorine Building project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves replacement of motor control centers, relocation of electrical panels and roof repairs of the old chlorine building where flushing water pumps are to remain.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
1.5	Effluent Pump Station	The SDWWTP Effluent Pump Station project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves an upgrade of the existing obsolete pump control systems, upgrade of the pumps drives and motors, and structural rehabilitation of pump station wet well, i.e. chambers 2 through 4.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).

**Table C-3.1 South District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
1.6	Gravity Sludge Thickeners	The SDWWTP Gravity Sludge Thickeners project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the thickened sludge pumps, and electrical systems in the concentrator pump station. It also entails the rehabilitation of the concentrator collector mechanisms and structural rehabilitation and coating of the concentrators.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a BODR and implement design.
1.7	Digesters and Control Buildings	The SDWWTP Digester and Control Buildings project will be performed pursuant to Paragraph 19(i) and Appendix D. The project involves the rehabilitation or replacement of digester roofs; digester tank cleaning, structural rehabilitation and coating, sludge mixers improvement. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstabilized sludge that will require landfill disposal.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a BODR and implement design.
1.8	Dewatering Facility	The SDWWTP Dewatering Facility project is being performed pursuant to Paragraph 19(i) and Appendix A. The purpose of this project is to replace the existing interim dewatering building with a new permanent dewatering facility. This will improve sludge dewatering and decrease solids accumulation in the secondary treatment process and prevent effluent limit violations.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a BODR and implement design.
1.9	FOG Removal Facility	The SDWWTP FOG Removal Facility project is being performed pursuant to Paragraph 19(i) and Appendix D. The current FOG separation tank is not capable of adequately handling solids load, resulting in excess odors and unanticipated manual labor to remove large amounts of grit, settled soils and hardened grease. The purpose of this project is to improve separation operations to the recently constructed FOG removal facility. This will result in the conveyance of oils and floating grease to a beneficial use option process and the removal of excess grit and settled solids.	MDWASD has been in the process of acquiring a design consultant for this project.	It is anticipated that the design consultant will prepare a BODR and implement design.

**Table C-3.1 South District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
1.10	Odor Control	The SDWWTP Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to upgrade the odor control facilities.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
1.11	General Electrical	The SDWWTP General Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed throughout the plant.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
1.12	Chlorine Contact Chamber Structural	The SDWWTP Chlorine Contact Chamber Structural project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the structural rehabilitation and coating of chlorine contact chambers 1 through 4.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).

**Table C-3.2 Central District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.1	Electrical Improvements	The CDWWTP Electrical Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed throughout the plant.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.2	Building Improvements	The CDWWTP Building Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the repair of maintenance, operations control and administration buildings at the plant. It includes the repair of the roofs and the staff facility.	This project was in the design phase.	Design will be completed and permitting will commence.
2.3	Headworks Plant 1	The CDWWTP Headworks/Grit Basin Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing screening facilities at the CDWWTP influent pump station are inefficient. This results in the accumulation of rags and plastics in plant processes which sometimes leads to pump, mixer and clarifier collection mechanism failure. This project involves the addition of influent screens and an electrical room with upgraded electrical instrumentation.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.4	Headworks Plant 2	The CDWWTP Headworks/Grit Basin project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing screening facilities at the CDWWTP influent pump station are inefficient. This results in the accumulation of rags and plastics in plant processes which sometimes leads to pump, mixer and clarifier collection mechanism failure. This project involves the addition of influent screens and an electrical room with upgraded electrical instrumentation.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).

**Table C-3.2 Central District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.5	Oxygenation Trains Plant 1	The CDWWTP Oxygenation Trains Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the retrofitting of the aeration mixers, structural rehabilitation and surface coating application.	In-house design for this project was completed and the procurement for construction commenced.	Construction will commence.
2.6	Oxygenation Trains Plant 2	The CDWWTP Oxygenation Trains Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the retrofitting of the aeration mixers, structural rehabilitation and surface coating application.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.7	Secondary Clarifiers Plant 1	The CDWWTP Secondary Clarifiers Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structure and replace the sludge collection mechanisms in the plant.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.8	Secondary Clarifiers Plant 2	The CDWWTP Secondary Clarifiers Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structure and replace the sludge collection mechanisms in the plant.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.9	RS Pump Stations Plant 1	The CDWWTP RS Pump Stations Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).

**Table C-3.2 Central District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.10	RS Pump Stations Plant 2	The CDWWTP RS Pump Stations Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.11	Effluent Pump Station	The CDWWTP Effluent Pump Station project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the pump in the effluent pump station.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.12	Sludge Thickeners Plant 1	The CDWWTP Sludge Thickeners Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the thickened sludge pumps, sanitary sewer pumps, HVAC and electrical systems in the concentrator pump station. It also involves the rehabilitation of concentrator collector mechanisms and structural rehabilitation and coating of concentrators.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.13	Sludge Thickeners Plant 2	The CDWWTP Sludge Thickeners Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the thickened sludge pumps, sanitary sewer pumps, HVAC and electrical systems in the concentrator pump station. It also involves the rehabilitation of concentrator collector mechanisms and structural rehabilitation and coating of concentrators.	This project was in the design phase.	Design will be completed and permitting will commence.

**Table C-3.2 Central District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.14	Digesters Plant 1	The CDWWTP Digesters Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the complete rehabilitation of sludge digester clusters, i.e. roofs, concrete structures, recirculation and transfer pumps, mixers, and electrical pumps. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstabilized sludge that will require landfill disposal.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.15	Digesters Plant 2	The CDWWTP Digesters Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the complete rehabilitation of sludge digester clusters, i.e. roofs, concrete structures, recirculation and transfer pumps, mixers, and electrical pumps. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstabilized sludge that will require landfill disposal.	This project was in the design phase.	Design will be completed and permitting will commence.
2.16	Dewatering Building	The CDWWTP Dewatering Building project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to construct a new dewatering facility and sludge cake conveyance system to the sludge storage buildings.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.17	Chlorination Facilities	The CDWWTP Chlorination Facilities project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the design and construction of a new bulk sodium hypochlorite storage and dosing system in separate outdoor structures to replace the existing chlorine gas system.	This project was in the design phase.	Design will be completed and permitting will commence.

**Table C-3.2 Central District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.18	Odor Control Systems	The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. This involves the replacement of the motor control center of the odor control buildings including air-conditioned electrical rooms. It also involves replacement of odor control chemical pumps, piping, valves and gas stripping tower media.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.19	Co-Gen Facility	The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the installation of two new cogeneration engines, cogeneration building improvements, replacement of biogas pipeline and installation of biogas conditioning system.	The permitting phase was completed and the procurement for construction commenced.	Procurement for construction will continue.
2.20	Septage Uploading	The CDWWTP Septage Unloading project is required under Paragraph 19(i) and Appendix D. The CD scope of this project included the construction of a new septage handling station to remove FOG from the main wastewater treatment stream and treat either through digestion or an off-site third part facility. However, the violation associated with this project was resolved by requiring all hauled waste to be sent to the South District WWTP as of January 2013.	In lieu of constructing improvements to the CDWWTP Septage Unloading facilities, MDWASD discontinued the process of receiving septage at the CDWWTP and has shut down the Septage Unloading facilities. Septage has been diverted to the SDWWTP as of January 2013 ahead of the compliance date of 6/3/2022.	N/A

**Table C-3.2 Central District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.21	Pump Station 1	The CDWWTP Pump Station No. 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the pump station for the odor control system and rehabilitate the bar screen mechanisms.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.22	Pump Station 2	The CDWWTP Pump Station No. 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the pump station odor control system, rehabilitation of bar screen mechanism, and replacement pump stations flow metering to improve maintenance accessibility.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.23	O <sub>2</sub> Plant Process Controls Phase 2	The CDWWTP O <sub>2</sub> Plant Process Controls project is being performed pursuant to Paragraph 19(i) and Appendix D. Existing oxygen production systems are either failing or obsolete. The purpose of this project is to replace existing oxygen production systems.	The procurement for construction commenced.	Procurement for construction will continue.
2.24	Gas Monitoring	The CDWWTP Gas Monitoring project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to monitor gas levels and place alarms in hazardous areas.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.25	Ventilation Improvements	The CDWWTP Ventilation Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to improve ventilation in hazardous areas.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).

**Table C-3.2 Central District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
2.26	Rehabilitation of Walkways and Stairways	The CDWWTP Rehabilitation of Walkways and Stairways project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of corroded walkways, stairways, railings, grating throughout the plant.	The procurement for construction commenced.	Construction will continue.
2.27	Oxygen Production	The CDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing units are near the end of useful life and prone to failure. The purpose of this project is to construct a new 80 ton/day oxygen production cryogenic tower and air compression unit to provide full redundancy.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
2.28	SCADA RTU Upgrades	The CDWWTP Building Improvements project was performed pursuant to Paragraph 19(i) and Appendix D. The old radio communication system was obsolete and it was difficult to procure parts. The purpose of the project was to upgrade the SCADA remote telemetry units to maintain operational sustainability.	This project is complete as of February 10, 2014 ahead of the March 29, 2014 CD compliance date.	N/A
2.29	High Strength Influent Impact Study	The CDWWTP High Strength Influent Impact Study was performed pursuant to Paragraph 19(i) and Appendix D. The CDWWTP was experiencing an increase in TSS and BOD loading. This study investigated the sources and conceptualized solutions to eliminate or mitigate the change in plant influent characteristics.	This study is complete as of June 4, 2014 ahead of the June 24, 2014 CD compliance date.	N/A

**Table C-3.3 North District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
3.1	Headworks and Sludge Degritting Transfer	The NDWWTP Headworks and Sludge Degritting and Transfer project is being performed pursuant to Paragraph 19(i) and Appendix D. This project is a 2 Phase approach to improve the existing screening facilities at the NDWWTP. In Phase 1, bar screens are replaced with perforated plate screens and Phase 2 involves the upgrade of the pretreatment buildings for fire code compliance and replacement of primary sludge grit separation equipment.	This project was in the design phase.	Design will be completed and permitting will commence.
3.2	Primary Clarifiers and Odor Control	The NDWWTP Primary Clarifiers and Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structures of the primary clarifiers. It also involves the rehabilitation of the mechanical and odor control systems at the plant.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
3.3	Oxygenation Trains	The NDWWTP Oxygenation Trains project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structures of the aeration tanks and its mechanical and electrical systems.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
3.4	Oxygen Production	The NDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the oxygen plant and its mechanical and electrical systems.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
3.5	Secondary Clarifiers	The NDWWTP Secondary Clarifiers project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the secondary clarifiers and its mechanical and electrical systems.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).

**Table C-3.3 North District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
3.6	Disinfection	The NDWWTP Disinfection project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the chlorine gas storage, liquid chlorination and dosing system with bulk sodium hypochlorite storage and dosing system in the existing chlorine building.	This project was in the design phase.	In-house design will be completed and permitting will commence.
3.7	Effluent Disposal	The NDWWTP Effluent Disposal project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the installation of standby pumps to ensure effluent disposal capacity and the structural rehabilitation of the ocean outfall pump station wet well.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).
3.8	Plant Wide Electrical	The NDWWTP Plant Wide Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed at the NDWWTP.	This project was in the design phase.	Design will continue.
3.9	Flood Mitigation	The NDWWTP Flood Mitigation project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to mitigate the flood potential in the Generator and Electrical Building at the NDWWTP.	This project was in the design phase.	Design will continue.
3.10	Yard Piping Replacement	The NDWWTP Yard Piping Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the wastewater piping that interconnects unit processes throughout the plant.	MDWASD has been in the process of acquiring a design consultant for this project.	The design consultant will prepare a Basis of Design Report (BODR).

**Table C-3.3 North District WWTP Capital Improvement Projects**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
3.11	SCADA RTU Upgrades	The NDWWTP SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units to maintain operational sustainability.	This project was in the construction phase.	Construction will continue.

**Table C-4.1 Wastewater Collection and Transmission Lines**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
4.1	Collection System I/I Repairs	The Collection System I/I Repairs project is being performed in accordance with Paragraph 19(i) and Appendix D of the CD. The project targets defective gravity sewers with excessive inflow/infiltration. It involves rehabilitation of the Collection System, i.e. dig & replace mainlines and laterals, manhole replacement, cured-in-place liners and sectional liners and will be performed concurrently with other work.	Work on this project is ongoing.	It is anticipated that work on this project will continue throughout 2014.
4.2	Government Cut FM Phase 1 & 2	The Government Cut FM Phases 1 & 2 project was performed in accordance with Paragraph 19(i) and Appendix D. The purpose of this two phase project is to replace critically damaged sections of 54-inch force main to avert catastrophic failures in Government Cut. This project involved the replacement of 54 inch FM with 60 inch FM from the water shaft in Government Cut to mainland Miami Beach.	This project was completed on September 26, 2013 ahead of the September 30, 2013 CD compliance date.	N/A
4.3	Government Cut FM Phase 3	The Government Cut FM Phases 3 project is being performed in accordance with Paragraph 19(i) and Appendix D. Phase 3 of this project involves the replacement of 54 inch FM from the land shaft at Fisher Island to CDWWTP at Virginia Key.	Design, permitting and the procurement for construction were completed.	Construction will commence.
4.4	North Dade 72 inch PCCP FM Rehabilitation	This North Dade Force Main Rehabilitation project is being performed in accordance with Paragraph 19(i) and Appendix D. The project replaces a damaged section of 72-inch force main that has experienced catastrophic failure. The rehabilitation involves 3.5 miles of 72 inch PCCP FM located between NW 17 Avenue and NE 10 Avenue in North Dade.	Design was completed and the procurement for construction commenced.	Construction will commence.
4.5	South Dade 54 inch PCCP FM Rehabilitation	This South Dade Force Main Rehabilitation project is being performed in accordance with Paragraph 19(i) and Appendix D. The project involves the rehabilitation of 2.5 miles of 54 inch PCCP FM from SW 112 Avenue and SW 280 Street to SW 107 Avenue and SW 248 Street in South Dade. It replaces sections of the 54-inch force main that has critically damaged pipe segments.	This project was in the planning phase.	Design will commence.

**Table C-4.1 Wastewater Collection and Transmission Lines**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
4.6	Replacement of Tamiami Canal Aerial Crossing FMs at NW 37th Avenue	This Tamiami Force Main Replacement project is being performed in accordance with Paragraph 19(i) and Appendix D. This project replaces corroded twin 24 inch FM's crossing the Tamiami Canal at NW 37 Avenue, just south of NW 21 Street in the Tamiami area. The twin 24-inch force mains have experienced failures and are in need of replacement.	Construction was completed on May 27, 2014 ahead of the October 29, 2016 CD compliance date.	This project will be closed out and certified.
4.7	Rehabilitation of 18 DIP FM in Miami Lakes	This Miami Lakes Force Main Replacement project is being replaced in accordance with Paragraph 19(i) and Appendix D. The purpose of this project is to replace severely corroded 18-inch pipe that has had multiple failures. It replaces one mile of 18 inch DIP FM located at NW 60 Avenue and NW 138 Street.	Design was completed.	Permitting will be completed and procurement for construction will commence.
4.8	Rehabilitation of 54 inch PCCP FM in the City of Miami	This City of Miami Force Main Rehabilitation project is being performed pursuant to Paragraph 19(i) and Appendix D. A section of 54-inch force main in the City of Miami is deteriorated and has experienced failures. The project involves the rehabilitation of 2 miles of 54 inch PCCP FM by cured-in-place liner located on NW 2 Street between NW 67 Avenue and NW 37 Avenue in the City of Miami.	This project was in the planning phase.	Design will be completed and permitting will commence.
4.9	Replace Approximately 30 miles of AC FM Transmission System	This Force Main Transmission System Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace asbestos cement force mains that have experienced failures and are difficult to locate in the field. This includes approximately 30 miles of AC FM transmission system.	See Table C-4.2.	See Table C-4.2.
4.10	Opa-Locka Airport FM Replacement	The Opa-Locka Airport PCCP Force Main Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of 2.5 miles of 48" PCCP force main running along the Biscayne Canal between NW 57th Avenue & NW 32nd Avenue. The length has been determined to have approximately one quarter of its line segments distressed based on in-situ condition assessments.	This project was in the planning phase.	Design will commence.

**Table C-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System**

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
1	12	SW 112 Ave. & SW 104 St.	SW 112 Ave. & SW 112 St.	This project was in the planning phase.	Design will commence.
2	8	NE 14 Ave. & 191 St.	NE 14 Ave. & Miami Gardens Dr.	This project was in the design phase.	Design will continue.
3	6	PS 356	NW 53 Ct. & NW 195 Dr.	This project was in the construction phase.	Construction will continue.
4	8	NW 53 Ct. & NW 195 Dr.	NW 52 Ct. & NW 191 Dr.	This project was in the construction phase.	Construction will continue.
5	10	NW 52 Ct. & NW 191 St.	NW 52 Ct. & NW 188 Dr.	This project was in the construction phase.	Construction will continue.
6	6	PS 362	NW 52 Ct. & NW 190 Dr.	This project was in the planning phase.	Design will commence.
7	10	NW 52 Ct. & NW 190 St.	NW 52 Ave. & NW 189 Ter.	This project was in the planning phase.	Design will commence.
8	10	NW 52 Ct. & NW 188 St.	NW 52 Ave. & NW 183 St.	This project was in the construction phase.	Construction will continue.
9	8	PS 385	NW 29 Ct. & NW 199 St.	This project was in the permitting phase.	Procurement for construction will commence.
10	12	NW 29 Ct. & NW 199 St.	NW 30 Pl. & NW 199 St.	This project was in the permitting phase.	Procurement for construction will commence.
11	8	NW 29 Ct. & NW 199 St.	NW 28 Ave. & NW 199 St.	This project was in the permitting phase.	Procurement for construction will commence.
12	6	PS 374	NW 28 Ave. & NW 199 St.	This project was in the permitting phase.	Procurement for construction will commence.
13	12	NW 30 Pl. & NW 199 St.	NW 37 Ave. & NW 199 St.	This project was in the permitting phase.	Procurement for construction will commence.
14	8	PS 368	NW 37 Ave. & NW 194 Ter.	This project was in the permitting phase.	Procurement for construction will commence.
15	4	PS 375	NW 29 Pl. and NW 191 St.	This project was in the permitting phase.	Procurement for construction will commence.
16	10	PS 427	NW 29 Pl. and NW 191 St.	This project was in the permitting phase.	Procurement for construction will commence.

**Table C-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System**

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
17	10	NW 29 Pl. and NW 191 St.	NW 32 Ave. & NW 191 St.	This project was in the permitting phase.	Procurement for construction will commence.
18	6	PS 376	NW 32 Ave. & NW 191 St.	This project was in the permitting phase.	Procurement for construction will commence.
19	6	PS 377	NW 36 Ave. & NW 183 St.	This project was in the permitting phase.	Procurement for construction will commence.
20	8	PS 366	NW 42 Pl. & NW 199 Ter.	This project was in the planning phase.	Design will commence.
21	10	NW 42 Pl. & NW 199 Ter.	NW 39 Ct. & NW 199 St.	This project was in the planning phase.	Design will commence.
22	6	PS 358	PS 352	This project was in the planning phase.	Design will commence.
23	8	PS 1022	PS 1072	This project was in the planning phase.	Planning will continue.
24	8	PS 353	NW 48 Ct. & NW 178 Ter.	This project was in the planning phase.	Design will commence.
25	10	NW 52 Ave. & NW 173 Dr.	NW 52 Ave. & NW 178 Ter.	This project was in the planning phase.	Design will commence.
26	6	PS 354	NW 52 Ave. & NW 173 Dr.	This project was in the planning phase.	Design will commence.
27	4	Pvt. PS @ SW 149 Ter.	MH 14 @ PS 719	This project was in the planning phase.	Planning will continue.
28	8	PS 786	MH 5 @ PS 785	This project was in the planning phase.	Design will commence.
29	12	PS 811	SW 107 Ave. & SW 76 St.	This project was in the design phase.	Design will continue.
30	12	PS 811	SW 102 Ave. & SW 81 St.	This project was in the design phase.	Design will continue.
31	10	PS 812	SW 102 Ave. & SW 84 St.	This project was in the design phase.	Design will continue.
32	12	SW 107 Ave. & SW 104 St.	SW 107 Ave. & Kendale Blvd.	This project was in the planning phase.	Design will commence.

**Table C-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System**

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
33	4	Pvt. PS @ 114 Ave. & SW 169 St.	MH 59 @ SW 103 Ave.	This project was in the planning phase.	Planning will continue.
34	10	PS 709	Homestead Ave. & Kumquat St.	This project was in the planning phase.	Planning will continue.
35	6	SW 110 Ave. & Banyan St.	SW 95 Ave. & SW Banyan St.	This project was in the planning phase.	Planning will continue.
36	4	PS 721	US1 & Banyan St.	This project was in the planning phase.	Planning will continue.
37	4	PS 749	PS 731	This project was in the planning phase.	Planning will continue.
38	4	PS 747	US1 & East Indigo St.	This project was in the planning phase.	Planning will continue.
39	10	SW 102 Ave. & SW 176 St.	Homestead Ave. & West Jessamine	This project was in the planning phase.	Planning will continue.
40	8	PS 745	SW 102 Ave. & SW 175 St.	This project was in the planning phase.	Planning will continue.
41	4	PS 731	SW Duval Ave. & West Indigo St.	This project was in the planning phase.	Planning will continue.
42	10	SW 102 Ave. & West Jessamine	US1 & SW 184 St.	This project was in the planning phase.	Planning will continue.
43	12	Homestead Ave. & 180 St.	Railroad St. & SW 184 St.	This project was in the planning phase.	Planning will continue.
44	8	PS 810	SW 118 Pl. & SW 72 St.	This project was in the planning phase.	Design will commence.
45	12	PS 793	SW 118 Pl. & SW 72 St.	This project was in the planning phase.	Design will commence.
46	6	PS 724	SW 106 Ave. & SW 155 St.	This project was in the planning phase.	Planning will continue.
47	8	PS 869	SW 122 Ave. & SW 88 St.	This project was in the planning phase.	Design will commence.
48	10	PS 1017	SW 123 Pl. & SW 268 St.	This project was in the planning phase.	Planning will continue.

**Table C-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System**

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
49	10	PS 1029	SW 132 Ave. & 268 St.	This project was in the planning phase.	Planning will continue.
50	8	SW 137 Ave. & SW 268 St.	SW 128 Ave. & 268 St.	This project was in the planning phase.	Planning will continue.
51	10	PS 1028	SW 137 Ave. & 288 St.	This project was in the planning phase.	Planning will continue.
52	10	PS 1027	SW 132 Ave. & 280 St.	This project was in the planning phase.	Planning will continue.
53	8	PS 1018	MH 44A @ SW 132 Ave.	This project was in the planning phase.	Planning will continue.
54	12	SW 137 Ave. & SW 72 St.	SW 142 Ave. & SW 72 St.	This project was in the planning phase.	Design will commence.
55	12	SW 142 Ave. & SW 72 St.	SW 147 Ave. & SW 72 St.	This project was in the planning phase.	Design will commence.
56	8	PS 864	SW 147 Ave. & SW 72 St.	This project was in the planning phase.	Design will commence.
57	8	SW 142 Ave. & Kendale Lakes Blvd.	SW 140 Ave. & Kendale Lakes Blvd.	This project was in the planning phase.	Design will commence.
58	10	SW 140 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & Kendale Lakes Blvd.	This project was in the planning phase.	Design will commence.
59	12	SW 137 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & SW 81 St.	This project was in the planning phase.	Design will commence.
60	8	PS 1013	PS 1012	This project was in the planning phase.	Planning will continue.
61	10	PS 1012	SW 144 Ave. & SW 280 St.	This project was in the planning phase.	Planning will continue.
62	8	PS 1011	SW 144 Ct. & SW 280 St.	This project was in the planning phase.	Planning will continue.
63	10	SW 147 Ave. & SW 288 St.	SW 134 Pl. & SW 288 St.	This project was in the planning phase.	Planning will continue.
64	6	PS 1009	SW 147 Ave. & SW 296 St.	This project was in the planning phase.	Planning will continue.

**Table C-4.2 Project 4.9 Replacement of Approximately 30 Miles AC FM Transmission System**

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
65	6	PS 1006	PS 1005	This project was in the planning phase.	Planning will continue.
66	8	PS 1002	SW 152 & SW 304 St.	This project was in the planning phase.	Planning will continue.

**Table C-5.1 Sewer Pump Station Systems**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
5.1	Upgrade of PS No. 0418	The Upgrade of PS No. 0418 project is being performed pursuant to Paragraph 19(i) and Appendix D. The station has reached the end of its useful life and a booster station is needed to relieve pressures in the Doral area. The purpose of this project is to convert PS No. 0418 into a booster type station.	Design was completed.	Permitting will commence.
5.2	Upgrade of PS No. 0691	The Upgrade of PS No. 0691 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0691.	This project was in the planning phase.	Design will commence.
5.3	Upgrade of PS No. 0692	The Upgrade of PS No. 0692 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0692.	This project was in the planning phase.	Design will commence.
5.4	Replacement of Switchgear PS No. 0414	The Replacement of Switchgear PS No. 0414 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life. This project involves the replacement of electrical switchgear in PS No. 0414.	This project was in the planning phase.	Design will commence.
5.5	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and the wet well structure is badly deteriorated due to H <sub>2</sub> S. This project involves the replacement of electrical switchgear and the rehabilitation of the wet well to include an odor control unit.	This project was in the planning phase.	Design will commence.
5.6	Replacement of Switchgear PS No. 0416	The Replacement of Switchgear PS No. 0416 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life. This project involves the replacement of electrical switchgear in PS No. 0416.	This project was in the planning phase.	Design will commence.

**Table C-5.1 Sewer Pump Station Systems**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
5.7	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0417	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0417 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and the wet well structure is badly deteriorated due to H <sub>2</sub> S. This project involves the replacement of electrical switchgear and the rehabilitation of the wet well of PS No. 0417 to include an odor control unit.	This project was in the planning phase.	Design will commence.
5.8	Replacement of Electrical and Mechanical Equipment PS No 0107	The Replacement of Electrical and Mechanical Equipment PS No. 0107 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond of the PS is beyond its useful life and parts are not readily available for the load cell type controllers. This project involves the replacement of pumping and electrical equipment of PS No. 0107.	This project was in the planning phase.	Design will commence.
5.9	Replacement of Pumping and Electrical Equipment PS No. 0301	The Replacement of Pumping and Electrical Equipment PS No. 0301 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond its useful life due to the saltwater environment. This project involves the replacement of pumping and electrical equipment of PS No. 0301 to include a generator.	This project was in the planning phase.	Design will commence.
5.10	Upgrade of PS No. 0488	The Upgrade of PS No. 0488 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond its useful life. This project involves the conversion of the PS a submersible type station.	This project was in the planning phase.	Design will commence.
5.11	Installation of 60 inch FM from Kendall Dr. to PS No. 0536	The Installation of 60 inch FM from Kendall Dr. to PS No. 0536 project is being performed pursuant to Paragraph 19(i) and Appendix D. Currently, there is a pressure differential and increase flow transfer between PS No. 0559 and PS No. 0536. The purpose of this project is to install a 60 inch FM from Kendall Dr. to PS No. 0536 to eliminate the 42 inch reduction in the 60 inch FM.	This project was in the planning phase.	Design will commence.

**Table C-5.1 Sewer Pump Station Systems**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
5.12	Replacement of Switchgear PS No. 0187	The Replacement of Switchgear PS No. 0187 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond of the PS is beyond its useful life and parts are not readily available. This project involves the replacement of the Anvic Drive with a VFD.	This project was in the planning phase.	Design will commence.
5.13	Refurbish Emergency Generators and Controls at Regional PSs	The Refurbish Emergency Generators and Controls at regional PSs project is being performed pursuant to Paragraph 19(i) and Appendix D. The emergency backup generators are unreliable due to the age of the controllers and the condition of the wiring on the engines. The purpose of this project is to refurbish emergency generators and controls at regional PSs.	This project was in the planning phase.	Design will be completed and permitting will commence.
5.14	Upgrade of PSs Nos. 0086 and 0492	The Upgrade of Pump Stations No. 0086 and 0492 project was performed and completed pursuant to Paragraph 19(i) and Appendix D. The project was designed to increase reliability and extend the service life of the pump station. The pump stations also exceeded the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. For this project, Pump Station No. 0086 was converted to a submersible type pump station with an existing wet well and the electrical controls and instrumentation were upgraded. The electrical controls and instrumentation for Pump Station No. 0492 were upgraded. It was also rehabilitated to a new submersible type pump station.	PS No. 0086 was completed on July 15, 2013 and PS No. 0492 on April 25, 2013. Both were completed ahead of the December 31, 2013 CD compliance date.	N/A

**Table C-5.1 Sewer Pump Station Systems**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
5.15	Upgrade of PSs Nos. 0065, 0201, 0374, 0607	<p>The Upgrade of PSs No. 0065, 0201, 0334, 0374, 0607 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0065 is being upgraded to include new submersible pumps in the existing dry well, installation of larger suction and discharge piping, and an electrical upgrade. The PS No. 0201 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and 48 I/I repairs for a flow of 176 gpm. The PS No. 0334 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 2,200 L.F. of new 8 inch FM. The PS No. 0374 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and the installation of 320 L.F. of new 8 inch FM. The PS No. 0607 project involves the conversion to a new submersible type pump station and an electrical upgrade.</p>	<p>This project was in the design stage. PS No. 0374 was certified to be in compliance on January 21, 2014 ahead of the CD compliance date of December 31, 2015. The PS was certified using the criteria set forth in Paragraph 18(a) and Appendix A(A)(iii). The upgrades for this PS consisted of station maintenance and I/I repairs in the station collection system.</p>	<p>Permitting on the other pump stations will be completed and procurement for construction will commence .</p>
5.16	Upgrade of PSs Nos.0198, 0437, 0466, 0680	<p>The Upgrade of PSs No. 0198, 0437, 0466, 0680 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0198 is being upgraded to include new submersible pumps in the existing dry well, an electrical upgrade and flow isolation and I/I repairs if necessary. The PSs No. 0437 and 0466 are being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade. The PS No. 0680 is being upgraded to include new submersible pumps, new valves above ground and an electrical upgrade.</p>	<p>This project was in the planning phase.</p>	<p>Planning validation phase will continue.</p>

**Table C-5.1 Sewer Pump Station Systems**

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
5.17	Upgrade of PSs Nos. 0037, 0351, 0370, 0403	The Upgrade of PSs No. 0037, 0351, 0370, 0403 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0037 project involves the conversion to a new submersible type pump station and an electrical upgrade. The PS No. 0351 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and the replacement of 360 L.F. of 4 inch with 8 inch FM. The PS No. 0370 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 760 L.F. of new 8 inch FM. The PS No. 0403 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of an on-site generator.	This project was in the planning phase.	Planning validation phase will continue.
5.18	Upgrade of PSs Nos. 0441, 0491, 0710, 0827, 0852, 1236	The Upgrade of PSs No. 0441, 0491, 0710, 0827, 0852, 1236 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0441 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 0491 is undergoing flow isolation and I/I repairs if necessary. The PS No. 710 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 1,800 L.F. of new 8 inch FM. The PS No. 0827 is being upgraded to include larger submersible pumps, installation of a new valve vault, an electrical upgrade and the replacement of 1,600 L.F. of 4 inch FM with 8 inch FM. The PS No. 0852 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 1236 is undergoing 300 I/I repairs to achieve a flow of 130 gpm.	This project was in the planning phase.	Planning validation phase will continue.
5.19	SCADA RTU Upgrades	The SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units for 635 pump stations to maintain operational sustainability.	401 of the 635 RTU upgrades have been completed.	Construction will continue.

## Appendix D Project Schedules Gantt Chart

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Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2014			
						Q1	Q2	Q3	Q4
<b>WASD Consent Decree Baseline Schedule Revision 0 - June 2014 Update</b>		5671	4838	01-Mar-11 A	27-Sep-27				
<b>Miami Consent Decree</b>		183	0	06-Jun-13 A	09-Apr-14 A				
MC10000	Date of Lodging	0	0	06-Jun-13 A					
MC10010	Effective Date - 6 months from DOL	0	0	06-Dec-13 A					
MC10030	Date of Entry	0	0	09-Apr-14 A					
<b>General Compliance Activities</b>		1918	1827	31-Mar-14 A	30-Jun-19				
<b>Supplemental Environment Project</b>		1827	1827	30-Jun-14	30-Jun-19				
PM10000	Supplemental Environmental Project Design	1097	1097	30-Jun-14	30-Jun-17				
PM10010	Supplemental Environmental Project Construction	1827	1827	30-Jun-14	30-Jun-19				
<b>Reporting Requirements</b>		336	245	31-Mar-14 A	01-Mar-15				
<b>Quarterly Reports</b>		309	218	31-Mar-14 A	02-Feb-15				
PM10020	2014 Quarterly Report No 1	32	0	31-Mar-14 A	24-Apr-14 A				
PM10030	2014 Quarterly Report No 2	31	31	30-Jun-14*	30-Jul-14				
PM10050	2014 Quarterly Report No 3	31	31	30-Sep-14*	30-Oct-14				
PM10060	2014 Quarterly Report No 4	34	34	31-Dec-14*	02-Feb-15				
<b>Semi Annual Reports</b>		218	218	30-Jun-14	02-Feb-15				
PM10040	2014 Semi Annual Report No 1	31	31	30-Jun-14	30-Jul-14				
PM10070	2014 Semi Annual Report No 2	34	34	31-Dec-14	02-Feb-15				
<b>Annual Report</b>		61	61	31-Dec-14	01-Mar-15				
PM10080	2014 Annual Report	61	61	31-Dec-14	01-Mar-15				
<b>Capacity, Management, Operations &amp; Maint. (CMOM) Program</b>		1345	1621	01-Oct-13 A	06-Dec-18				
<b>Adequate Pumping, Transmission, &amp; Treatment Capacity Program</b>		181	0	06-Dec-13 A	04-Jun-14 A				
CM10020	Amend Section 24-42.3 of Code of Miami Dade to EPA	181	0	06-Dec-13 A	20-May-14 A				
CM10150	Compliance Submittal Milestone - Amend Section 24-42.3	0	0		04-Jun-14 A				
<b>Pump Station Remote Monitoring</b>		5	628	01-Oct-13 A	18-Mar-16				
CM12000	Implementation of Pump Station Remote Monitoring	5	628	01-Oct-13 A	18-Mar-16				
<b>WCTS Model</b>		5	1621	06-Dec-13 A	06-Dec-18				
CM12010	Update WCTS Model	5	1621	06-Dec-13 A	06-Dec-18				
<b>Spare Parts Program</b>		20	20	01-Nov-14	20-Nov-14				
CM10170	Spare Parts Program Annual Update - 2014	20	20	01-Nov-14*	20-Nov-14				
<b>Volume Sewer Customer (VSC) Ordinance Program</b>		570	364	06-Dec-13 A	28-Jun-15				
CM10010	Amendment to VSC Ordinance to EPA/FDEP	123	0	06-Dec-13 A	04-Apr-14 A				
CM10001	Deliverable Placed in the PDR - Amendment to VSC Ordinance	1	0	04-Apr-14 A	04-Apr-14 A				
CM10140	EPA/FDEP Review/Approval - Changes to VSC Program	60	0	07-Apr-14 A	06-Jun-14 A				
CM10880	Compliance Submittal Milestone - VSC Ordinance Program	0	0		07-Apr-14 A				
CM10140D	Pending EPA Review/Approval - Changes to VSC Program	23	1	07-Jun-14 A	30-Jun-14				
CM10160	Enact Amendment within 180 days of Approvals	180	180	01-Jul-14	27-Dec-14				
CM10611	Plan of Compliance Submitted to Miami-Dade by Each VSC	183	183	28-Dec-14	28-Jun-15				
<b>Fats, Oils &amp; Grease (FOG) Control Program</b>		550	344	06-Dec-13 A	08-Jun-15				
CM10070	Revised FOG Control Program to EPA/FDEP	550	344	06-Dec-13 A	08-Jun-15				
<b>Sewer Overflow Response Plan (SORP)</b>		578	372	06-Dec-13 A	06-Jul-15				
CM10080	SORP submittal to EPA/FDEP	578	372	06-Dec-13 A	06-Jul-15				
<b>Information Management System (IMS) Program</b>		1279	1073	06-Dec-13 A	06-Jun-17				
CM10120	Submit IMS Program to EPA/FDEP	732	526	06-Dec-13 A	07-Dec-15				



## MIAMI-DADE WATER & SEWER CONSENT DECREE PROGRAM SCHEDULE

2014 Semi Annual Report No. 1

Date	Revision	Checked	Approved
14-Jul-14	Revision 0	GSR	DH
25-Jul-14	June 2014 Update		

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2014			
						Q1	Q2	Q3	Q4
CM10130	Implementation of Graphic Information System (GIS) of Entire WCTS	1279	1073	06-Dec-13 A	06-Jun-17				
<b>Sewer System Asset Management Program</b>		670	464	06-Dec-13 A	06-Oct-15				
CM10100	Asset Management Plan to EPA/FDEP	670	464	06-Dec-13 A	06-Oct-15				
<b>Gravity Sewer System Operations &amp; Maintenance Program</b>		428	222	06-Dec-13 A	06-Feb-15				
CM10040	Gravity Sewer System O&M Program to EPA/FDEP	428	222	06-Dec-13 A	06-Feb-15				
<b>Pump Station Operations &amp; Preventative Maint. Program</b>		487	281	06-Dec-13 A	06-Apr-15				
CM10050	Pump Station Ops & Prev. Maint Program to EPA/FDEP	487	281	06-Dec-13 A	06-Apr-15				
<b>Force Main Operation, Preventative Maint. &amp; Assessment/Rehab Program</b>		609	403	06-Dec-13 A	06-Aug-15				
CM10090	FM Oper. Prev. Maint. & Assessment/Rehab Program to EPA/FDEP	609	403	06-Dec-13 A	06-Aug-15				
<b>Force Main Rehabilitation/Replacement Program</b>		732	526	06-Dec-13 A	07-Dec-15				
CM10110	Force Main Rehabilitation/Replacement Program to EPA/FDEP	732	526	06-Dec-13 A	07-Dec-15				
<b>WWTP Operations and Maintenance Program</b>		517	311	06-Dec-13 A	06-May-15				
CM10060	WWTP O&M Program to EPA/FDEP	517	311	06-Dec-13 A	06-May-15				
<b>Financial Analysis Program</b>		428	222	06-Dec-13 A	06-Feb-15				
CM10030	Financial Analysis Program Submitted to EPA/FDEP	368	162	06-Dec-13 A	08-Dec-14				
CM10310	Compliance Submittal Milestone - Financial Analysis Program	0	0		08-Dec-14				
CM10049	Deliverable Placed in the PDR - Financial Analysis Program	1	1	09-Dec-14	09-Dec-14				
CM10190	EPA/FDEP Review/Approval - Financial Analysis Program	60	60	09-Dec-14	06-Feb-15				
<b>1. South District WWTP</b>		548	548	30-Jun-14	29-Dec-15				
<b>1.6 Gravity Sludge Thickeners</b>		230	230	03-Jul-14	17-Feb-15				
SD10280	Engineering Design - SD Gravity Sludge Thickeners	230	230	03-Jul-14*	17-Feb-15				
<b>1.7 Digesters and Control Building</b>		268	268	30-Jun-14	24-Mar-15				
SD10010	Engineering Design - SD Digesters & Control Building	268	268	30-Jun-14*	24-Mar-15				
<b>1.8 Dewatering Facility</b>		287	287	01-Jul-14	13-Apr-15				
SD10030	Engineering Design - SD Dewatering Facilities	287	287	01-Jul-14*	13-Apr-15				
<b>1.9 FOG Removal Facility</b>		548	548	30-Jun-14	29-Dec-15				
SD10000	Engineering Design - SD FOG Removal Facility	183	183	30-Jun-14*	29-Dec-14				
SD10020	Permitting - SD FOG Removal Facility	365	365	30-Dec-14	29-Dec-15				
<b>2. Central District WWTP</b>		5423	4838	01-Mar-11 A	27-Sep-27				
<b>2.2 Repairs to Various Buildings</b>		536	440	26-Mar-14 A	12-Sep-15				
CD10130	Engineering Design - CD Repairs to Various Buildings	171	75	26-Mar-14 A	12-Sep-14				
CD10290	Permitting - CD Repairs to Various Buildings	365	365	13-Sep-14	12-Sep-15				
<b>2.3 Headworks/Grit Basin Plant 1</b>		307	307	30-Jun-14	02-May-15				
CD10050	Engineering Design - CD Headworks/Grit Basin Plant 1	307	307	30-Jun-14*	02-May-15				
<b>2.4 Headworks/Grit Basin Plant 2</b>		307	307	30-Jun-14	02-May-15				
CD10040	Engineering Design - CD Headworks/Grit Basin Plant 2	307	307	30-Jun-14*	02-May-15				
<b>2.5 Oxygenation Trains Plant 1</b>		440	173	01-Mar-11 A	19-Dec-14				
CD10150	Engineering Design - CD Oxygenation Trains Plant 1	94	0	01-Mar-11 A	02-May-11 A				
CD10240	Permitting - CD Oxygenation Trains Plant 1	81	0	01-Mar-11 A	02-May-11 A				
CD10490	Procurement - CD Oxygenation Trains Plant 1	365	0	03-May-11 A	23-Sep-11 A				
CD10720	Construction Train #2 - CD Oxygenation Trains Plant 1	196	173	26-Sep-11 A	19-Dec-14				
<b>2.13 Gravity Sludge Thickeners Plant 2</b>		365	534	11-Jun-14 A	15-Dec-15				
CD10510	Engineering Design - CD Gravity Sludge Thickeners Plant 2	188	169	11-Jun-14 A	15-Dec-14				
CD10600	Permitting - CD Gravity Sludge Thickeners Plant 2	365	365	16-Dec-14	15-Dec-15				



**MIAMI-DADE WATER & SEWER  
CONSENT DECREE PROGRAM SCHEDULE  
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25-Jul-14	June 2014 Update		

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2014			
						Q1	Q2	Q3	Q4
<b>2.15 Digesters Plant 2</b>									
<b>2.15.1 Cluster 1</b>									
CD10030	Engineering Design - CD Digesters Plant 2 Cluster 1	188	172	11-Jun-14 A	18-Dec-14				
CD10110	Permitting - CD Digesters Plant 2 Cluster 1	365	365	19-Dec-14	18-Dec-15				
<b>2.17 Chlorination Facilities</b>									
CD10060	Engineering Design - CD Chlorination Facilities	342	70	01-Oct-13 A	07-Sep-14				
CD10250	Permitting - CD Chlorination Facilities	365	365	08-Sep-14	07-Sep-15				
<b>2.19 Co-Gen Improvements</b>									
CD10140	Engineering Design - CD Co-Gen Improvements	474	0	22-Nov-12 A	10-Mar-14 A				
CD10470	Permitting - CD Co-Gen Improvements	365	0	12-Mar-13 A	11-Mar-14 A				
CD10480	Procurement - CD Co-Gen Improvements	365	256	12-Mar-14 A	12-Mar-15				
<b>2.22 Pump Station No.2</b>									
CD10270	Engineering Design - CD Pump Station No. 2	128	128	01-Oct-14*	05-Feb-15				
<b>2.23 O2 Plant Process Controls Phase 2</b>									
CD10010	Engineering Design - CD O2 Plant Process Controls Phase 2	125	0	01-Oct-13 A	20-Dec-13 A				
CD10090	Permitting - CD O2 Plant Process Controls Phase 2	365	0	01-Oct-13 A	20-Dec-13 A				
CD10340	Procurement - CD O2 Plant Process Controls Phase 2	365	365	02-Jun-14 A	29-Jun-15				
<b>2.26 Rehabilitation of Walkways and Stairways</b>									
CD10070	Construction - CD Rehab of Walkways & Stairways	5110	4838	01-Oct-13 A	27-Sep-27				
<b>2.28 SCADARTU Upgrades</b>									
CD10020	Construction - CD SCADARTU Upgrades	180	0	01-Oct-13 A	10-Feb-14 A				
CD10100	Substantial Completion (Original CD Compliance Date 3/29/14) - CD SCADARTU Upgrades	0	0		10-Feb-14 A				
<b>2.29 High Strength Influent Impact Study</b>									
CD10000	Engineering Study - CD High Strength Influent Study Impact	540	0	12-Feb-13 A	05-Jun-14 A				
CD10190	Substantial Completion (Original CD Compliance Date 6/24/14) - High Strength Influent Impact Study	0	0		05-Jun-14 A				
<b>3. North District WWTP</b>									
<b>3.1 Headworks and Sludge Degritting &amp; Transfer</b>									
ND10000	Engineering Design - ND Headworks & Sludge Degritting	270	19	20-Mar-13 A	18-Jul-14				
ND10010	Permitting - ND Headworks & Sludge Degritting	365	365	19-Jul-14*	18-Jul-15				
<b>3.6 Disinfection</b>									
ND10190	Engineering Design - ND Disinfection	65	33	21-Apr-14 A	01-Aug-14				
ND10200	Permitting - ND Disinfection	365	365	02-Aug-14	01-Aug-15				
<b>3.8 Plant Wide Electrical</b>									
ND10040	Engineering Design - ND Plant Wide Electrical	1177	1107	21-Apr-14 A	10-Jul-17				
<b>3.9 Flood Mitigation</b>									
ND10030	Engineering Design - ND Flood Mitigation	391	321	21-Apr-14 A	16-May-15				
<b>3.11 SCADA RTU Upgrades</b>									
ND10020	Construction - ND SCADA RTU Upgrades	540	268	30-Sep-13 A	24-Mar-15				
<b>4. Wastewater Collection &amp; Transmission Line</b>									
<b>4.1 Collection System I/I Repairs</b>									
CT10070	Construction - Collection System I/I Repair	5110	4838	01-Oct-13 A	27-Sep-27				
<b>4.2 Government Cut FM - Phase 1&amp;2</b>									
CT10010	Construction - Government Cut FM Phase 1 & 2	365	0	01-Oct-11 A	30-Sep-13 A				



**MIAMI-DADE WATER & SEWER  
CONSENT DECREE PROGRAM SCHEDULE  
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25-Jul-14	June 2014 Update		

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2014			
						Q1	Q2	Q3	Q4
CT10030	Substantial Completion - Government Cut FM Phase 1 & 2	0	0		30-Sep-13 A				
<b>4.3 Government Cut FM - Phase 3</b>		<b>1342</b>	<b>702</b>	<b>30-Jan-13 A</b>	<b>31-May-16</b>				
CT10000	Engineering Design - Government Cut FM Phase 3	219	0	30-Jan-13 A	30-Jan-14 A	█			
CT10020	Permitting - Government Cut FM Phase 3	365	0	30-Jan-13 A	30-Jan-14 A	█			
CT10170	Procurement - Government Cut FM Phase 3	365	0	30-Jan-13 A	30-Jan-14 A	█			
CT10250	Construction - Government Cut FM Phase 3	702	702	30-Jun-14	31-May-16			█	
<b>4.4 North Dade 72 inch PCCP FM Rehabilitation</b>		<b>1035</b>	<b>521</b>	<b>01-Feb-13 A</b>	<b>02-Dec-15</b>				
CT10050	Engineering Design (DCP) - North Dade 72" PCCP FM Rehab	157	0	01-Feb-13 A	15-Feb-14 A	█			
CT10230	Procurement - North Dade 72" PCCP FM Rehab	365	96	03-Feb-14 A	03-Oct-14		█		
CT10150	Final Design/Permitting - North Dade 72" PCCP FM Rehab	365	365	04-Oct-14	03-Oct-15			█	
CT10310	Construction - North Dade 72" PCCP FM Rehab	365	365	03-Dec-14	02-Dec-15				█
<b>4.5 South Dade 54 inch PCCP FM Rehabilitation</b>		<b>188</b>	<b>188</b>	<b>30-Jun-14</b>	<b>03-Jan-15</b>				
CT10060	Engineering Design - South Dade 54" PCCP FM Rehab	188	188	30-Jun-14*	03-Jan-15				
<b>4.6 Replacement of Tamiami Canal Aerial Crossing FM's at NW 37 Ave</b>		<b>604</b>	<b>0</b>	<b>11-Dec-12 A</b>	<b>27-May-14 A</b>				
CT10040	Engineering Design - Replace Tamiami Canal/NW 37 Ave Crossing	94	0	11-Dec-12 A	11-Mar-13 A				
CT10120	Permitting - Replace Tamiami Canal/NW 37 Ave Crossing	365	0	12-Mar-13 A	11-May-13 A				
CT10200	Procurement - Replace Tamiami Canal/NW 37 Ave Crossing	365	0	13-May-13 A	03-Oct-13 A				
CT10280	Construction - Replace Tamiami Canal/NW 37 Ave Crossing	299	0	07-Oct-13 A	27-May-14 A	█			
CT10350	Substantial Completion (Original CD Compliance Date 10/29/2016) - Replace Tamiami Canal/NW 37 Ave	0	0		27-May-14 A				
<b>4.7 Replacement of 18 inch DIP FM in Miami Lakes</b>		<b>1202</b>	<b>382</b>	<b>11-Mar-12 A</b>	<b>16-Jul-15</b>				
CT10090	Engineering Design - Replace 18" DIP FM in Miami Lakes	125	0	11-Mar-12 A	08-May-14 A	█			
CT10140	Permitting - Replace 18" DIP FM in Miami Lakes	365	17	09-Jun-14 A	16-Jul-14		█		
CT10220	Procurement - Replace 18" DIP FM in Miami Lakes	365	365	17-Jul-14	16-Jul-15			█	
<b>4.8 Rehabilitation of 54 inch PCCP FM in the City</b>		<b>490</b>	<b>490</b>	<b>30-Jun-14</b>	<b>01-Nov-15</b>				
CT10080	Engineering Design - Rehab 54" PCCP FM in the City	125	125	30-Jun-14*	01-Nov-14			█	
CT10130	Permitting - Rehab 54" PCCP FM in the City	365	365	02-Nov-14	01-Nov-15				█
<b>4.9 Replace Approximately 30 miles of AC FM Transmission System</b>		<b>1138</b>	<b>467</b>	<b>28-Aug-12 A</b>	<b>09-Oct-15</b>				
CT10110	Engineering Design - Replace ~30 miles of AC FM Trans System	343	102	28-Aug-12 A	09-Oct-14	█			
CT10190	Permitting - Replace ~30 miles of AC FM Trans System	365	365	10-Oct-14	09-Oct-15				█
<b>4.10 Opa-Locka Airport 48" PCCP Force Main Replacement</b>		<b>270</b>	<b>270</b>	<b>30-Jun-14</b>	<b>26-Mar-15</b>				
CT10100	Engineering Design - Replace 48" PCCP FM @ Opa-Locka Airport	270	270	30-Jun-14*	26-Mar-15				
<b>5. Sewer Pump Station System</b>		<b>1461</b>	<b>628</b>	<b>19-Mar-12 A</b>	<b>18-Mar-16</b>				
<b>5.1 Upgrade of PS#0418</b>		<b>606</b>	<b>365</b>	<b>01-Nov-13 A</b>	<b>29-Jun-15</b>				
PS10040	Engineering Design - Upgrade PS#0418	218	0	01-Nov-13 A	12-May-14 A	█			
PS10190	Permitting - Upgrade PS#0418	365	365	30-Jun-14	29-Jun-15				█
<b>5.2 Upgrade of PS#0691</b>		<b>282</b>	<b>282</b>	<b>30-Jun-14</b>	<b>07-Apr-15</b>				
PS10120	Engineering Design - Upgrade PS#0691	282	282	30-Jun-14*	07-Apr-15				
<b>5.3 Upgrade of PS#0692</b>		<b>282</b>	<b>282</b>	<b>30-Jun-14</b>	<b>07-Apr-15</b>				
PS10140	Engineering Design - Upgrade PS#0692	282	282	30-Jun-14*	07-Apr-15				
<b>5.4 Replacement of Switchgear PS#0414</b>		<b>219</b>	<b>219</b>	<b>30-Jun-14</b>	<b>03-Feb-15</b>				
PS10100	Engineering Design - Replace S/G for PS#0414	219	219	30-Jun-14*	03-Feb-15				
<b>5.5 Replacement of Switchgear and Rehabilitation of Wetwell PS#0415</b>		<b>282</b>	<b>282</b>	<b>30-Jun-14</b>	<b>07-Apr-15</b>				

See Table C-4.2 for breakdown of subsidiary project statuses.



## MIAMI-DADE WATER & SEWER CONSENT DECREE PROGRAM SCHEDULE

2014 Semi Annual Report No. 1

Date	Revision	Checked	Approved
14-Jul-14	Revision 0	GSR	DH
25-Jul-14	June 2014 Update		

Activity ID	Activity Name	Original Duration	Remaining Duration	Start	Finish	2014			
						Q1	Q2	Q3	Q4
PS10110	Engineering Design - Replace S/G and Rehab Wetwell PS#0415	282	282	30-Jun-14*	07-Apr-15				
<b>5.6 Replacement of Switchgear PS#0416</b>									
PS10080	Engineering Design - Replace S/G PS#0416	219	219	30-Jun-14*	03-Feb-15				
<b>5.7 Replacement of Switchgear and Rehabilitation of Wetwell PS#0417</b>									
PS10130	Engineering Design - Replace S/G and Rehab Wetwell PS#0417	282	282	30-Jun-14*	07-Apr-15				
<b>5.8 Replacement of Electrical and Mechanical Equipment in PS#0107</b>									
PS10150	Engineering Design - Replace Elect. & Mech. Equip. PS#0107	282	282	30-Jun-14*	07-Apr-15				
<b>5.9 Replacement of Pumping and Electrical Equipment at PS#0301</b>									
PS10070	Engineering Design - Replace Pumping & Electrical Equip. PS#0301	219	219	30-Jun-14*	03-Feb-15				
<b>5.10 Upgrade of PS#0488</b>									
PS10090	Engineering Design - Upgrade PS#0488	219	219	30-Jun-14*	03-Feb-15				
<b>5.11 Installation of 60 inch FM from Kendall Dr to PS#0536</b>									
PS10060	Engineering Design - Install 60" FM from Kendal Dr. to PS#0536	219	219	30-Jun-14*	03-Feb-15				
<b>5.12 Replacement of Switchgear at PS#0187</b>									
PS10050	Engineering Design - Replace S/G at PS#0187	219	219	30-Jun-14*	03-Feb-15				
<b>5.13 Refurbish Emergency Generators and Controls at Regional Pump Stations</b>									
PS10030	Engineering Design - Refurbish Emer Gen Controls at Pumpstations	63	63	30-Jun-14*	31-Aug-14				
PS10180	Permitting - Refurbish Emer Gen Controls at Pumpstations	365	365	01-Sep-14	31-Aug-15				
<b>5.14 Upgrade of PS#0086, 0492</b>									
PS10000	Procurement - Upgrade PS#0086, 0492	183	0	19-Mar-12 A	17-Sep-12 A				
PS10010	Construction - Upgrade PS#0086, 0492	270	0	18-Sep-12 A	15-Jul-13 A				
PS10160	Substantial Completion - Upgrade PS#0086, 0492	0	0		15-Jul-13 A				
<b>5.15 Upgrade of PS#0065, 0201, 0334, 0374, 0607</b>									
PS10170	Engineering Design - Upgrade PS#0065, 0201, 0334, 0374, 0607	190	1	01-Jan-13 A	30-Jun-14				
PS10260	Permitting - Upgrade PS#0065, 0201, 0334, 0374, 0607	90	90	01-Jul-14	28-Sep-14				
PS10320	Procurement - Upgrade PS#0065, 0201, 0334, 0374, 0607	180	180	29-Sep-14	27-Mar-15				
<b>5.19 SCADARTU Upgrades</b>									
PS10020	Construction - PS SCADARTU Upgrades	900	628	01-Oct-13 A	18-Mar-16				



**MIAMI-DADE WATER & SEWER**  
**CONSENT DECREE PROGRAM SCHEDULE**  
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