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VIA ELECTRONIC CORRESPONDENCE

July 30, 2015

CCN: 59609
File No: 8.DC.20.33

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**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 Reports – 2015
Semi-Annual Report No. 1**

Dear Sir/Madam:

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 2015 Semi-Annual Report No. 1. The report includes the progress made in implementing the requirements of the aforementioned Consent Decree during the period of time from January 1, 2015 through June 30, 2015. The report also includes the anticipated work to be completed over the next two calendar quarters through December 31, 2015. 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



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
Deputy Director

Attachment: 2015 Semi-Annual Report No. 1

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2015 Semi-Annual Report No. 1

January 1, 2015 through June 30, 2015

Prepared for

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

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

Prepared by

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



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Acronyms and Abbreviations

AC	Asbestos Cement
BODR	Basis of Design Report
CDWWTP	Central District Wastewater Treatment Plant
CD	Consent Decree
CIP	Capital Improvement Project
CIPP	Cured in Place Pipe
CMOM	Capacity, Management, Operations and Maintenance
County	Miami-Dade County
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
FM	Force Main
FOG	Fats, Oils and Grease
FDEP	Florida Department of Environmental Protection
GPD	Gallons per Day
GPM	Gallons per Minute
GIS	Geographic Information System
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

OOL	Ocean Outfall Legislation
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
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

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). On April 9, 2014, the Court approved the CD with the United States of America, the State of Florida Department of Environmental Protection, and the State of Florida.

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, 2015 through June 30, 2015), and also provides projections for significant projects and activities anticipated to be completed in the next two calendar quarters (July 1, 2015 through December 31, 2015).

On March 18, 2014, the County approved a resolution of commitment not to transfer funds from the collection of sewer rates for purposes not related to the management, operation, or maintenance of the Sewer System or its capital improvement needs. 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.

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 Work Progress Tables and Gantt charts in Appendix A and Appendix B, respectively.

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

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Completion or Submittal Date	CD Compliant (Yes/No)
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 Pumping, Transmission and Treatment Capacity under the conditions of CD Appendix A	Section VI, para 18(a)	Ongoing	Ongoing	Yes
Continue implementing existing Pump Station Remote Monitoring Program	Section VI, para 18(b)	Ongoing	Ongoing	Yes
Continue implementing existing Spare Parts Program	Section VI, para 18(d)	Ongoing	Ongoing	Yes
Continued Implementation of SSO Identification and Reporting	Section VI, para 19(b)	Within 24 hours and 5 days of known occurrence	Ongoing	Yes
Submit 2014 Quarterly Report No. 4	Section IX, para 32	2/2/15	1/30/15	Yes
Post 2014 Quarterly Report No. 4 in PDR	Section IX, para 36	1 business day after submittal	1/30/15	Yes
Submit 2014 Semi-Annual Report No.2	Section IX, para 33	2/2/15	2/2/15	Yes
Post 2014 Semi-Annual Report No.2 in PDR	Section IX, para 36	1 business day after submittal	2/2/15	Yes
Submit 2014 Modifications to Interim Milestones Quarterly Report	Section XX, para 82	N/A	2/2/15	Yes
Submit Gravity Sewer System Operations and Maintenance Program	Section VI, para 19(e)	2/6/15	2/6/15	Yes
Post Gravity Sewer System Operations and Maintenance Program in PDR	Section V, para 9	1 business day after submittal	2/6/15	Yes
Submit revisions to the proposed amendments to the Volume Sewer Customer Ordinance (VSCO)	Section V, para 15	N/A	2/24/15	Yes
Post revisions to the proposed amendments to the VSCO in PDR	Section V, para 9	1 business day after submittal	2/24/15	Yes

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

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Completion or Submittal Date	CD Compliant (Yes/No)
Submit Force Majeure Notification Letter for CD Appendix D-2 CIP 4.10	Section XI, para 52	N/A	2/27/15	Yes
Post Force Majeure Notification Letter for CD Appendix D-2 CIP 4.10 in PDR	Section V, para 9	1 business day after submittal	2/27/15	Yes
Submit 2014 Annual Report	Section IX, para 34	3/2/15	3/2/15	Yes
Post 2014 Annual Report in PDR	Section IX, para 36	1 business day after submittal	3/2/15	Yes
Submit Request for Modifications for sequence of CDWWTP Plant 2 Digester Clusters	Section XX, para 82	N/A	3/5/15	Yes
Post Request for Modifications for sequence of CDWWTP Plant 2 Digester Clusters in PDR	Section V, para 9	1 business day after submittal	3/5/15	Yes
Submit Pump Station Operations and Preventative Maintenance Program	Section VI, Para 19(f)	4/6/15	4/2/15	Yes
Post Pump Station Operations and Preventative Maintenance Program in PDR	Section V, para 9	1 business day after submittal	4/2/15	Yes
Submit Force Majeure Closeout Letter for CD Appendix D-2 CIP 4.10	Section XI, para 52	N/A	4/24/15	Yes
Post Force Majeure Closeout Letter for CD Appendix D-2 CIP 4.10 in PDR	Section V, para 9	1 business day after submittal	4/24/15	Yes
Submit 2015 Quarterly Report No. 1	Section IX, para 32	5/1/15	4/30/15	Yes
Post 2015 Quarterly Report No. 1 in PDR	Section IX, para 36	1 business day after submittal	4/30/15	Yes
Submit Wastewater Treatment Plant Operations and Maintenance Program	Section VI, para 19(h)	5/6/15	5/5/15	Yes
Post Wastewater Treatment Plant Operations and Maintenance Program in PDR	Section V, para 9	1 business day after submittal	5/5/15	Yes
Submit Payment of Stipulated Penalties to EPA for SSOs that reached US Waters	Section X, para 44 and 46; Section VII, para 21	6/5/2015	5/22/15	Yes

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

Post Payment of Stipulated Penalties to EPA for SSOs that reached US Waters in PDR	Section V, para 9	1 business day after submittal	5/22/15	Yes
Submit Payment of Stipulated Penalties to FDEP for SSOs that reached US Waters	Section X, para 44 and 46; Section VII, para 21	5/29/2015	5/22/15	Yes
Post Payment of Stipulated Penalties FDEP for SSOs that reached US Waters in PDR	Section V, para 9	1 business day after submittal	5/22/15	Yes
Submit Payment of Stipulated Penalties to FDEP for SSOs that did not reach US Waters	Section X, para 44 and 46; Section VII, para 21	6/20/15	6/2/15	Yes
Post Payment of Stipulated Penalties to FDEP for SSOs that did not reach US Waters in PDR	Section V, para 9	1 business day after submittal	6/2/15	Yes
Submit Fats, Oils and Grease Control Program	Section VI, para 19(a)	6/8/15	6/8/15	Yes
Post Fats, Oils and Grease Control Program in PDR	Section V, para 9	1 business day after submittal	6/8/15	Yes
Submit 2015 Request for Modifications of Non-Material Changes to Interim Milestones in CD Appendix D-2	Section XX, para 82	N/A	6/26/15	Yes
Post 2015 Request for Modifications of Non-Material Changes to Interim Milestones in CD Appendix D-2 in PDR	Section V, para 9	1 business day after submittal	6/26/15	Yes

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

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Anticipated Completion or Submittal Date
Continued Implementation of Existing CMOM Programs	Section VI, para 18	Ongoing	Ongoing
Submit Sewer Overflow Response Plan	Section VI, para 19(b)	7/6/15	7/6/15
Post Sewer Overflow Response Plan in PDR	Section V, para 9	1 business day after submittal	1 business day after submittal
Submit Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program	Section VI, para 19(g)	8/6/15	8/6/15
Post Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program in PDR	Section V, para 9	1 business day after submittal	1 business day after submittal
Submit Sewer System Assets Management Program	Section VI, para 19(d)	10/6/15	10/6/15
Post Sewer System Assets Management Program in PDR	Section V, para 9	1 business day after submittal	1 business day after submittal
Submit Force Main Rehabilitation/Replacement Program	Section VI, para 19(g)	12/7/15	12/7/15
Post Force Main Rehabilitation/Replacement Program in PDR	Section V, para 9	1 business day after submittal	1 business day after submittal
Submit Information Management System Program	Section VI, para 19(c)	12/7/15	12/7/15
Post Information Management System Program in PDR	Section V, para 9	1 business day after submittal	1 business day after submittal
Submit 2015 Quarterly Report No. 2	Section IX, para 32	7/30/15	7/30/15
Post 2015 Quarterly Report No. 2 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2015 Semi-Annual Report No.1	Section IX, para 33	7/30/15	7/30/15
Post 2015 Semi-Annual Report No.1	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2015 Quarterly Report No. 3	Section IX, para 32	10/30/15	10/30/15
Post 2015 Quarterly Report No. 3 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal

Table 1-3 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.

Table 1-3 Issues Log			
Item	Date	Description	Resolution/Clarification/Decision
1	1/28/2015	Implementation schedules are required to be included in CMOM Program deliverables. However, these programs are interrelated and one program directly affects another. MDWASD recommended that a consolidated implementation schedule be developed once all of the CMOM Program deliverables have been submitted.	EPA/FDEP followed up with an email on March 19, 2015 and agreed to allow MDWASD to submit a consolidated implementation schedule for all CMOM programs once all program documents have been submitted. However, each program document to be submitted must also include an implementation schedule if required by the CD.
2	6/18/2015	MDWASD had issues sending EPA/FDEP the Fats, Oils and Grease Control Program because the file was too large. It was requested by MDWASD if, going forward, the PDR link can be sent to EPA/FDEP when documents are too large to send via email.	At the June 18, 2015 Miami-Dade Consent Decree Program Update Teleconference Meeting, EPA/FDEP agreed that would be fine.
3	6/18/2015	The CD states in Section X Stipulated Penalties Paragraph 50, “In exercising its discretion of whether to assess a stipulated penalty for an SSO, EPA and/or FDEP will consider the amount of sewage recovered.” Therefore, it is MDWASD’s intention to initiate, when applicable perform, the calculation or estimation of recovered SSO volume. MDWASD will develop the processes and procedures and submit them to EPA/FDEP for approval.	These processes and procedures are still under development. Thus, this decision is pending.

Table 1-3 Issues Log (Continued)

Item	Date	Description	Resolution/Clarification/Decision
4	6/18/2015	The Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program must contain the “inspection of FM easements...and easement accessibility to identify whether further action would be necessary ...to be necessary...to be able to have access should a problem arise.” To address this MDWASD proposed a one-time pass of all easements, documenting all encroachments, creating a GIS layer for easements, populating a database of encroached easements, and documenting the level of encroachment.	At the June 18, 2015 Miami-Dade Consent Decree Program Update Teleconference Meeting, EPA/FDEP agreed that would be fine.
5	6/18/2015	Per the Consent Decree, the FM Assessment Program must contain “standard procedures and schedules for continual above ground assessment of the route(s) of each FM in the WCTS. This component shall include standard forms for the visual assessment of FM routes and ground level conditions that may show structural issues with the FM below ground.” All ARVs undergo routine preventative maintenance at a minimum of every 6 months and system valves once a year. Therefore, all FM routes are evaluated on a yearly basis. MDWASD proposed that this inspection and maintenance of the ARVs and system valves meets the CD requirement.	At the June 18, 2015 Miami-Dade Consent Decree Program Update Teleconference Meeting, Brad Ammons said that the above wording in the CD was probably intended for a municipality containing FMs in wooded areas. He requested that an analysis be done and any remote FM assets that will require schedules for continual above ground assessment be identified in the Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program.

Table 1-3 Issues Log (Continued)

Item	Date	Description	Resolution/Clarification/Decision
6	6/18/2015	On June 18, 2015 MDWASD proposed a definition for construction completion. It states, "Construction Completion shall mean completion of construction and installation of equipment or infrastructure such that the equipment or infrastructure has been placed in operation, and is expected to both function and perform as designed. This specifically includes all control systems and instrumentation necessary for normal operations and all residual handling systems. Miscellaneous items related to construction activities, such as restoration of surrounding areas or installation of other items not necessary for the equipment or infrastructure to function and perform as designed, is not required to be completed prior to the Miami-Dade Water and Sewer Department certifying that a particular project has met the construction completion milestone."	At the June 18, 2015 Miami-Dade Consent Decree Program Update Teleconference Meeting, Brad Ammons said he would send the proposed definition for construction completion to EPA's legal representatives for approval. Thus, this decision is pending.

2.0 Introduction

2.1 Purpose

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). 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. 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. 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 one (1) month after the first two (2) calendar quarters following the Effective Date of the CD, and one (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 was 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 A. 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 B.

3.0 Work Progress

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 A-1.1 in Appendix A, Work Progress Tables.

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 A-2.1 in Appendix A, Work Progress Tables.

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 A-3.1, A-3.2 and A-3.3 for the WWTPs, Tables A-4.1 and A-4.2 for the WCTLs and Table A-5.1 for the Sewer Pump Station Systems in Appendix A, Work Progress Tables.

3.3 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.

In the previous two calendar quarters, the CD PMCM Team has submitted the SEP technical memorandum, and a Design Consultant begun the Basis of Design Report (BODR). At the request of MDWASD, the CD PMCM Team has initiated a Phase 1A engineering design by a Design Consultant of a small portion of proposed gravity sewer main within the SEP as a demonstration project.

In the next two calendar quarters, the Design Consultant will finalize the SEP BODR, conduct a Technical Workshop, and initiate full engineering design. The SEP Phase 1A engineering design will be finalized by the Design Consultant and advanced for construction start.

4.0 Additional Information

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.

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 Consent Decree 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).

During the reporting period, the CD PMCM and OOL Consultant have been coordinating to ensure there is no overlap of projects in the OOL Program and CD Program.

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Appendix A

Work Progress Tables

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Table A-1.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree			
Paragraph	Project Name	Project Description	Anticipated Actions to be Performed in the Next Two Calendar Quarters
18(a)	Adequate Pumping, Transmission and Treatment Capacity Program	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 WWTs. Pursuant to Appendix A of the CD, certifications are performed by Department of Regulatory and Economic Resources-Division of Environmental Resources Management ("RER-ERM") and kept on file by MDWASD. The EPA can have access to these reports upon request.	Work on the program has been ongoing.
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 is ongoing and will continue beyond December 31, 2015.

Table A-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(c)	Wastewater Collection and Transmission System Model	<p>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.</p>	<p>Work included: Initiated development of Model and GIS integration procedures according to Paragraph 18(c)(iv). Summarized and review information available on wastewater private pump station. Initiated the development of a methodology to incorporate private PS flows into the Model according to Paragraph 18(c)(ii), initiated the development of a Model Calibration Plan according to Paragraph 18(c)(iv), coordinated with CMOM consultant the update of Gravity Sewer elevations for the entire system and updated the model with major gravity sewer lines according to Paragraphs 18(c)(iii) and 18(c)(iv), verification and evaluation of CD Appendix D-2 CIP 5.9, 5.10, Developed a county wide Pump Model based on four models developed for four areas of the county. Developed 2015, 2020, 2025 and 2035 scenarios in the Pump Model. The pump model provides more detailed and accurate information than the flow model used in previous master plan efforts. The Pump model meets the requirements of the Consent Decree.</p>	<p>Work to include: Continue development of Model and GIS integration procedures according to Paragraph 18(c)(iv). Finalize the compilation of wastewater private pump station information. Finalize the development of a Model Calibration Plan according to Paragraph 18(c)(iv). Verification and evaluation of several CD Appendix D-2 CIP. Coordination with Ocean Outfall Legislation Projects.</p>

Table A-1.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree			
Paragraph	Project Name	Project Description	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.	<p>Work on the program has been ongoing.</p> <p>The existing program will be enhanced as the new CMOM Programs are implemented. Work on the program is ongoing and will continue beyond December 31, 2015.</p>
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.	<p>Revisions to the proposed amended VSC Ordinance were submitted to EPA/FDEP on February 23, 2015. EPA/FDEP approved the revised VSC Ordinance on March 17, 2015. RER-DEEM held a Utility Round Table meeting (4/15/15) with the VSCs to provide technical presentations and present the Final Guidelines for the Preparation of the Plan of Compliance. On June 30, 2015, the proposed ordinance was read before the Board of County Commissioners.</p> <p>The proposed ordinance is scheduled for public hearing before the Metropolitan Services (MS) Committee on August 26, 2015. The County is expected to enact amended VSCO before or on September 14, 2015 which is within 180 days of receipt of EPA/FDEP approval.</p>

Table A-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.	The implementation of the FOG Manifest Process began on April 1, 2015 at the SDWWTP's FOG receiving station. The FOG Control Program and FOG Ordinance were finalized and submitted to the EPA/FDEP on CD compliance date of June 8, 2015.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond December 31, 2015.
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.	Document development continued in accordance with the EPA CMOM guidance document attached to the CD as Appendix C.	SORP will be finalized and submitted to the EPA/FDEP on or before the CD compliance date of July 6, 2015
19(c)	Information Management System Program	The IMS Program is being developed in accordance with Paragraph 19(c). This Program 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.	Document development continued in accordance with the EPA CMOM guidance document attached to the CD as Appendix C.	The IMS Program will be finalized and submitted to the EPA/FDEP on or before the CD compliance date of December 7, 2015

Table A-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 System 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.	GIS activities included: implementation of process changes to speed up the digitizing process. Completion of 199 Sewer projects: 63 miles of pipe modified or added; 3,060 above ground assets modified or added.	GIS activities will include miles of pipe added, miles of pipe modified, above ground assets added and above ground assets modified in the next two calendar quarters. Implementation of process improvements which will further speed up the data entry process. Streamlining the manual as-builts to GIS process. Determination of elevation of manhole rims and pipe inverts and their inclusion into GIS
19(d)	Sewer System Asset Management Program	The Sewer System Asset Management Program is being developed in accordance with Paragraph 19(d). This 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.	Document development continued in accordance with the EPA CMOM guidance document attached to the CD as Appendix C.	The SSAMP will be finalized and submitted to the EPA/FDEP on or before the CD compliance date of October 6, 2015

Table A-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(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.	The Program document was finalized and submitted to the EPA/FDEP on CD compliance date of February 6, 2015.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond December 31, 2015.
19(f)	Pump Station Operations and Preventative Maintenance Program	The Pump Station Operations and Preventative 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.	The Program document was finalized and submitted to the EPA/FDEP ahead of CD compliance date on April 2, 2015.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond December 31, 2015.
19(g)	Force Main Operations, Preventative 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. The Force main Rehabilitation/Replacement Program includes standard procedures for repairing, rehabilitating and replacing force mains.	MDWASD has conducted condition assessments of pre-stressed concrete cylinder pipe force mains. The FMOPMARP document development continued in accordance with the EPA CMOM guidance document attached to the CD as Appendix C	Assessments will be ongoing. The FMOPMARP will be finalized and submitted to the EPA/FDEP on or before the CD compliance date of August 6, 2015. The Force Main Rehabilitation/Replacement Program will be finalized and submitted to the EPA/FDEP on or before the CD compliance date of December 7, 2015

Table A-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(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.	The Program document was finalized and submitted to the EPA/FDEP on CD compliance date of May 6, 2015.	Program is pending EPA and FDEP approval. Work on the program will be ongoing and will continue beyond December 31, 2015.
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.	Program plan was submitted to the EPA/FDEP on December 4, 2014 ahead of the compliance date of December 8, 2014.	Program is pending approval. Work on the program will be ongoing and will continue beyond December 31, 2015.

Table A-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	<p>The SDWWTP Headworks project will be performed pursuant to Paragraph 19(i) and Appendix D of the CD of the CD. 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.</p>	<p>The design and permitting were completed. The procurement commenced. Rehabilitation of the bar screens was initiated by in-house MDWASD plant staff in May 2015.</p>	<p>Procurement and construction will continue beyond December 31, 2015.</p>
1.2	Oxygen Production	<p>The SDWWTP Oxygen Production project will be performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to replace and retrofit existing air compression units.</p>	<p>Design commenced.</p>	<p>Design will continue.</p>
1.3	Oxygenation Trains	<p>The SDWWTP Oxygen Trains project will be performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to retrofit aeration mixers and rehabilitate and apply surface coating to the structure. This project was split into two child projects; one for the structural rehab of the trains and another for the mixer upgrades, which includes electrical and building upgrades. The structural rehab will be performed by in-house forces, and the mixer/building work will be designed and constructed in the future.</p>	<p>In validation/planning stage.</p>	<p>No activities milestone scheduled.</p>
1.4	Chlorine Building	<p>The SDWWTP Chlorine Building project will be performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	<p>In validation/planning stage.</p>	<p>No activities milestone scheduled.</p>

Table A-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
1.5	Effluent Pump Station	<p>The SDWWTP Effluent Pump Station project will be performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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. This project has been split into three separate child projects: the electrical equipment associated with pumps 7,8 and 9; structural rehabilitation of the effluent pump wetwells; and the building improvements and equipment for the remaining pumps respectively.</p>	<p>The installation of electrical equipment commenced. Structural rehab of wet well #3 commenced in February 2015. The required building improvements to the pump station were in the validation process.</p>	<p>Installation of electrical equipment will be completed. Structural rehab of wetwell #3 will be completed. Structural rehab of wetwell #4 will commence. For the building improvements, no activities milestone scheduled.</p>
1.6	Gravity Sludge Thickeners	<p>The SDWWTP Gravity Sludge Thickeners project will be performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	<p>Design continued.</p>	<p>Design will continue.</p>

Table A-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
1.7	Digesters and Control Buildings	<p>The SDWWTP Digester and Control Buildings project will be performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	Design continued.	Design will continue.
1.8	Dewatering Facility	<p>The SDWWTP Dewatering Facility project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	This project is being performed under design-build delivery method. Design commenced.	Design will continue. Permitting and Procurement will commence.
1.9	FOG Removal Facility	<p>The SDWWTP FOG Removal Facility project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	R&R Consultant completed the technical evaluation of alternatives for this project. The balance of the design performed by the WWTP Design Consultant continued.	Design will be completed. Permitting will commence.
1.10	Odor Control	<p>The SDWWTP Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to upgrade the odor control facilities.</p>	In validation/planning stage.	No activities milestone scheduled.

Table A-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
1.11	General Electrical	The SDWWTP General Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. This project involves the rehabilitation and replacement of electrical controls and wiring as needed throughout the plant.	In validation/planning stage.	No activities milestone scheduled.
1.12	Chlorine Contact Chamber Structural	The SDWWTP Chlorine Contact Chamber Structural project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. This project involves the structural rehabilitation and coating of chlorine contact chambers 1 through 4.	In validation/planning stage.	No activities milestone scheduled.

Table A-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	<p>The CDWWTP Electrical Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. This project involves the rehabilitation and replacement of electrical controls and wiring as needed throughout the plant.</p>	<p>In validation/planning stage.</p>	<p>No activities milestone scheduled.</p>
2.2	Building Improvements	<p>The CDWWTP Building Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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 has been split into four child projects. The first is for asbestos abatement in the Administration Building. The second is for additional renovations which were determined while asbestos work was being performed. The third is for the roof repairs to various buildings. The fourth is for the remodeling work that was in the original Consent Decree scope.</p>	<p>Phase 1 of the asbestos abatement in the Administration Building was completed in December 2014 and phase 2 was completed in June 2015. The design commenced and was completed, and permitting commenced for remodeling of the Administration Building. Procurement commenced and construction commenced for the roof repairs. Design commenced for the remaining remodeling work.</p>	<p>Permitting will continue for the remodeling of the Administration Building. Procurement and construction will continue for the roof repairs. Design will be completed and permitting will commence for the remaining remodeling work.</p>

Table A-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
2.3	Headworks Plant 1	<p>The CDWWTP Headworks/Grit Basin Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	Design continued.	Design will continue.
2.4	Headworks Plant 2	<p>The CDWWTP Headworks/Grit Basin project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	Design continued.	Design will continue.
2.5	Oxygenation Trains Plant 1	<p>The CDWWTP Oxygenation Trains Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The project involves the retrofitting of the aeration mixers, structural rehabilitation and surface coating application.</p>	No activities were performed.	Structural rehabilitation work for Train 2 will commence by MDWASD in-house forces during the dry seasons.

Table A-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
2.6	Oxygenation Trains Plant 2	The CDWWTP Oxygenation Trains Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The project involves the retrofitting of the aeration mixers, structural rehabilitation and surface coating application.	The installation of electrical equipment commenced.	The installation of electrical equipment will be completed. The installation of mixers for Trains Nos. 2-4 will commence.
2.7	Secondary Clarifiers Plant 1	The CDWWTP Secondary Clarifiers Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to rehabilitate the structure and replace the sludge collection mechanisms in the plant.	In validation/planning stage.	No activities milestone scheduled.
2.8	Secondary Clarifiers Plant 2	The CDWWTP Secondary Clarifiers Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to rehabilitate the structure and replace the sludge collection mechanisms in the plant.	In validation/planning stage.	Design will commence.
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 of the CD. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations.	In validation/planning stage.	No activities milestone scheduled.
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 of the CD. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations.	In validation/planning stage.	Design will commence.

Table A-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
2.11	Effluent Pump Station	The CDWWTP Effluent Pump Station project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to replace the pump in the effluent pump station.	In validation/planning stage.	No activities milestone scheduled.
2.12	Sludge Thickeners Plant 1	The CDWWTP Sludge Thickeners Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.	In validation/planning stage.	Design will commence.
2.13	Sludge Thickeners Plant 2	The CDWWTP Sludge Thickeners Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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 is being performed under design-build delivery method. Design continued.	Design will continue.
2.14	Digesters Plant 1	The CDWWTP Digesters Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.	In validation/planning stage.	No activities milestone scheduled.

Table A-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
2.15	Digesters Plant 2	<p>The CDWWTP Digesters Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	<p>Cluster 1 was in the design phase. Cluster 4 commenced design phase.</p>	<p>Design will be completed and permitting will commence for Cluster 1. Design will continue for Cluster 4. No activities milestone are scheduled for Clusters 2 and 3.</p>
2.16	Dewatering Building	<p>The CDWWTP Dewatering Building project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to construct a new dewatering facility and sludge cake conveyance system to the sludge storage buildings.</p>	<p>Design commenced.</p>	<p>Design will continue.</p>
2.17	Chlorination Facilities	<p>The CDWWTP Chlorination Facilities project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	<p>Design continued.</p>	<p>Design will continue.</p>
2.18	Odor Control Systems	<p>The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	<p>In validation/planning stage.</p>	<p>No activities milestone scheduled.</p>

Table A-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
2.19	Co-Gen Facility	<p>The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The project involves the installation of two new cogeneration engines, cogeneration building improvements, replacement of biogas pipeline and installation of biogas conditioning system. Thus, this project has been split into two separate "child" projects; one for the generator replacement and one for the biogas treatment facilities.</p>	<p>Construction was on going for the Co-Gen generator replacement. Co-Gen biogas treatment facilities improvements commenced the design phase.</p>	<p>Construction will be completed for the Co-Gen generator replacement. Design will continue for the Co-Gen biogas treatment facilities improvements.</p>
2.20	Septage Uploading	<p>The CDWWTP Septage Unloading project is required under Paragraph 19(i) and Appendix D of the CD. 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.</p>	<p>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 6/3/22.</p>	N/A

Table A-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 of the CD. The purpose of this project is to rehabilitate the pump station for the odor control system and rehabilitate the bar screen mechanisms.	In validation/planning stage.	No activities milestone scheduled.
2.22	Pump Station 2	The CDWWTP Pump Station No. 2 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.	Design commenced.	Design will continue.
2.23	O ₂ Plant Process Controls Phase 2	The CDWWTP O ₂ Plant Process Controls project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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 was completed. Construction commenced.	Construction will continue.
2.24	Gas Monitoring	The CDWWTP Gas Monitoring project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to monitor gas levels and place alarms in hazardous areas.	Design commenced.	Design will be completed. Permitting will commence.
2.25	Ventilation Improvements	The CDWWTP Ventilation Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to improve ventilation in hazardous areas.	In validation/planning stage.	No activities milestone scheduled.

Table A-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 of the CD. This project involves the replacement of corroded walkways, stairways, railings, grating throughout the plant.	Construction was ongoing.	Construction will continue.
2.27	Oxygen Production	The CDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.	Design commenced.	Design will continue.
2.28	SCADA RTU Upgrades	The CDWWTP Building Improvements project was performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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 of the CD. 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 A-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 of the CD. This project is a two-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.	Permitting continued. Procurement for construction commenced.	Permitting will be completed. Procurement for construction will continue. Construction Phase 1 and Phase 2 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 of the CD. 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.	Design continued.	Design will continue.
3.3	Oxygenation Trains	The NDWWTP Oxygenation Trains project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to rehabilitate the structures of the aeration tanks and its mechanical and electrical systems.	In validation/planning stage.	No activities milestone scheduled.
3.4	Oxygen Production	The NDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. This project involves the rehabilitation of the structure of the oxygen plant and its mechanical and electrical systems.	In validation/planning stage.	No activities milestone scheduled.

Table A-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
3.5	Secondary Clarifiers	The NDWWTP Secondary Clarifiers project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. This project involves the rehabilitation of the structure of the secondary clarifiers and its mechanical and electrical systems.	Rehabilitation of mechanism Nos. 3, 6 and 8 was ongoing and performed by in-house plant staff. Remaining scope of work continued design.	Design will continue for remaining scope of work.
3.6	Disinfection	The NDWWTP Disinfection project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.	Design continued.	Design will continue.
3.7	Effluent Disposal	The NDWWTP Effluent Disposal project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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. This project has been split into three separate child projects: the Deep Injection Well (DIW) Pump Station Mechanical work, the Deep Injection Well (DIW) Electrical work, and the Ocean Outfall (OOF) Pump Station.	Design continued and permitting commenced for the DIW PS mechanical work. Permitting commenced and was completed, and construction commenced for the DIW PS electrical work. The OOF PS rehab was completed in March 2015.	Design will be completed, permitting will continue and procurement will commence for the DIW PS for the mechanical work. Construction will continue for the DIW PS electrical work.

Table A-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
3.8	Plant Wide Electrical	The NDWWTP Plant Wide Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. This project involves the rehabilitation and replacement of electrical controls and wiring as needed at the NDWWTP.	Design was completed. Permitting, procurement and construction commenced.	Permitting, procurement and construction will continue.
3.9	Flood Mitigation	The NDWWTP Flood Mitigation project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to mitigate the flood potential in the Generator and Electrical Building at the NDWWTP.	Design was completed. Permitting is not required. Procurement and construction commenced.	Procurement and construction will continue.
3.10	Yard Piping Replacement	The NDWWTP Yard Piping Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. The purpose of this project is to replace the wastewater piping that interconnects unit processes throughout the plant.	Procurement and construction commenced.	Procurement and construction will continue.
3.11	SCADA RTU Upgrades	The NDWWTP SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.	Project was completed in November 2014.	N/A

Table A-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 2015.
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 of the CD. 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 30, 2013.	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 of the CD. Phase 3 of this project involves the replacement of 54 inch FM from the land shaft at Fisher Island to CDWWTP at Virginia Key.	This project is being performed under design-build delivery method. Permitting and construction was ongoing.	Permitting will be completed. Construction will continue.
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 of the CD. 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.	Notice to proceed was issued in March 2015. This project is being performed under a design-build delivery method. Design commenced. Procurement for construction was completed.	Design will be completed. Permitting and construction will commence.

Table A-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
4.5	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 of the CD. 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 has been split into two (2) separate child projects; one which includes the 2.5 miles of 54 inch pipe rehabilitation and another for required bypasses.	Design commenced for both child projects.	Design will be completed. Permitting will commence.
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 of the CD. 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.	N/A
4.7	Rehabilitation of 18 inch DIP FM in Miami Lakes	This Miami Lakes Force Main Replacement project is being replaced in accordance with Paragraph 19(i) and Appendix D of the CD. 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.	Procurement for construction was completed. Construction commenced.	Construction will continue.
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 of the CD. 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.	Design was on going.	Design will continue and be completed. Permitting will commence.

Table A-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
4.9	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 of the CD. 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 A-4.2.	See Table A-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 of the CD. This project involves the rehabilitation of 2.5 miles of 48 inch 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.	Design continued.	Design will be completed. Permitting will commence.

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

Line Number	Diameter (inch)	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/validation phase.	Design will commence and be completed. Permitting will commence.
2	8	NE 14 Ave. & 191 St.	NE 14 Ave. & Miami Gardens Dr.	Design was ongoing.	Design will be completed. Permitting and procurement will commence.
3	6	PS 356	NW 53 Ct. & NW 195 Dr.	This project was completed on August 11, 2014.	N/A
4	8	NW 53 Ct. & NW 195 Dr.	NW 52 Ct. & NW 191 Dr.	This project was completed on August 11, 2014.	N/A
5	10	NW 52 Ct. & NW 191 St.	NW 52 Ct. & NW 188 Dr.	This project was completed on August 11, 2014.	N/A
6	6	PS 362	NW 52 Ct. & NW 190 Dr.	Design commenced.	Design will be completed. Procurement will commence.
7	10	NW 52 Ct. & NW 190 St.	NW 52 Ave. & NW 189 Ter.	Design commenced.	Design will be completed. Procurement will commence.
8	10	NW 52 Ct. & NW 188 St.	NW 52 Ave. & NW 183 St.	This project was completed on August 11, 2014.	N/A
9	8	PS 385	NW 29 Ct. & NW 199 St.	Procurement was completed and construction commenced.	Construction will be completed.
10	12	NW 29 Ct. & NW 199 St.	NW 30 Pl. & NW 199 St.	Procurement was completed and construction commenced.	Construction will be completed.

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

Line Number	Diameter (inch)	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
11	8	NW 29 Ct. & NW 199 St.	NW 28 Ave. & NW 199 St.	Procurement was completed and construction commenced.	Construction will be completed.
12	6	PS 374	NW 28 Ave. & NW 199 St.	Procurement was completed and construction commenced.	Construction will be completed.
13	12	NW 30 Pl. & NW 199 St.	NW 37 Ave. & NW 199 St.	Procurement was completed and construction commenced.	Construction will be completed.
14	8	PS 368	NW 37 Ave. & NW 194 Ter.	Procurement was completed. Construction commenced and was completed on June 3, 2015.	N/A
15	4	PS 375	NW 29 Pl. and NW 191 St.	Procurement was completed. Construction commenced and was completed on June 3, 2015.	N/A
16	10	PS 427	NW 29 Pl. and NW 191 St.	Procurement was completed. Construction commenced and was completed on June 3, 2015.	N/A
17	10	NW 29 Pl. and NW 191 St.	NW 32 Ave. & NW 191 St.	Procurement was completed. Construction commenced and was completed on June 3, 2015.	N/A
18	6	PS 376	NW 32 Ave. & NW 191 St.	Procurement was completed. Construction commenced and was completed on June 3, 2015.	N/A
19	6	PS 377	NW 36 Ave. & NW 183 St.	Procurement was completed. Construction commenced and was completed on June 3, 2015.	N/A

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

Line Number	Diameter (inch)	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
20	8	PS 366	NW 42 Pl. & NW 199 Ter.	Design commenced.	Design will be completed and permitting will commence.
21	10	NW 42 Pl. & NW 199 Ter.	NW 39 Ct. & NW 199 St.	Design commenced.	Design will be completed and permitting will commence.
22	6	PS 358	PS 352	Design commenced.	Design will be completed and permitting will commence.
23	8	PS 1022	PS 1072	This project was in the planning/validation phase. Design commenced.	Design will commence.
24	8	PS 353	NW 48 Ct. & NW 178 Ter.	Design commenced.	Design will be completed and permitting will commence.
25	10	NW 52 Ave. & NW 173 Dr.	NW 52 Ave. & NW 178 Ter.	Design commenced.	Design will be completed and permitting will commence.
26	6	PS 354	NW 52 Ave. & NW 173 Dr.	Design commenced.	Design will be completed and permitting will commence.
27	4	Pvt. PS @ SW 149 Ter.	MH 14 @ PS 719	This project was in the planning/validation phase.	Design will commence and be completed. Permitting will commence.
28	8	PS 786	MH 5 @ PS 785	This project was in the planning/validation phase.	Design will commence and be completed. Permitting will commence.

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

Line Number	Diameter (inch)	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
29	12	PS 811	SW 107 Ave. & SW 76 St.	Design was ongoing.	Design will be completed. Permitting will commence and be completed.
30	12	PS 811	SW 102 Ave. & SW 81 St.	Design was ongoing.	Design will be completed. Permitting will commence and be completed.
31	10	PS 812	SW 102 Ave. & SW 84 St.	Design was ongoing.	Design will be completed. Permitting will commence and be completed.
32	12	SW 107 Ave. & SW 104 St.	SW 107 Ave. & Kendale Blvd.	Design commenced.	Design will be completed and permitting will commence.
33	4	Pvt. PS @ 114 Ave. & SW 169 St.	MH 59 @ SW 103 Ave.	This project was in the planning/validation phase.	Design will commence and be completed and permitting will commence.
34	10	PS 709	Homestead Ave. & Kumquat St.	This project was in the planning/validation phase.	Design will commence.
35	6	SW 110 Ave. & Banyan St.	SW 95 Ave. & SW Banyan St.	This project was in the planning/validation phase.	Design will commence.
36	4	PS 721	US1 & Banyan St.	This project was in the planning/validation phase.	Design will commence.
37	4	PS 749	PS 731	This project was in the planning/validation phase.	Design will commence.

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

Line Number	Diameter (inch)	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
38	4	PS 747	US1 & East Indigo St.	This project was in the planning/validation phase.	Design will commence.
39	10	SW 102 Ave. & SW 176 St.	Homestead Ave. & West Jessamine	This project was in the planning/validation phase.	Design will commence.
40	8	PS 745	SW 102 Ave. & SW 175 St.	This project was in the planning/validation phase.	Design will commence.
41	4	PS 731	SW Duval Ave. & West Indigo St.	This project was in the planning/validation phase.	Design will commence.
42	10	SW 102 Ave. & West Jessamine	US1 & SW 184 St.	This project was in the planning/validation phase.	Design will commence.
43	12	Homestead Ave. & 180 St.	Railroad St. & SW 184 St.	This project was in the planning/validation phase.	Design will commence.
44	8	PS 810	SW 118 Pl. & SW 72 St.	This project was in the planning/validation phase.	Design will commence and be completed. Permitting will commence.
45	12	PS 793	SW 118 Pl. & SW 72 St.	This project was in the planning/validation phase.	Design will commence and be completed. Permitting will commence.
46	6	PS 724	SW 106 Ave. & SW 155 St.	This project was in the planning/validation phase.	Design will commence and be completed. Permitting will commence.
47	8	PS 869	SW 122 Ave. & SW 88 St.	Design commenced.	Design will be completed and permitting will commence.
48	10	PS 1017	SW 123 Pl. & SW 268 St.	This project was in the planning/validation phase.	Design will commence.
49	10	PS 1029	SW 132 Ave. & 268 St.	This project was in the planning/validation phase.	Design will commence.

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

Line Number	Diameter (inch)	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to be Performed in the Next Two Calendar Quarters
50	8	SW 137 Ave. & SW 268 St.	SW 128 Ave. & 268 St.	This project was in the planning/validation phase.	Design will commence.
51	10	PS 1028	SW 137 Ave. & 288 St.	This project was in the planning/validation phase.	Design will commence.
52	10	PS 1027	SW 132 Ave. & 280 St.	This project was in the planning/validation phase.	Design will commence.
53	8	PS 1018	MH 44A @ SW 132 Ave.	This project was in the planning/validation phase.	Design will commence.
54	12	SW 137 Ave. & SW 72 St.	SW 142 Ave. & SW 72 St.	This project was in the planning/validation phase.	Design will commence.
55	12	SW 142 Ave. & SW 72 St.	SW 147 Ave. & SW 72 St.	This project was in the planning/validation phase.	Design will commence.
56	8	PS 864	SW 147 Ave. & SW 72 St.	This project was in the planning/validation phase.	Design will commence.
57	8	SW 142 Ave. & Kendale Lakes Blvd.	SW 140 Ave. & Kendale Lakes Blvd.	This project was in the planning/validation phase.	Design will commence.
58	10	SW 140 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & Kendale Lakes Blvd.	This project was in the planning/validation phase.	Design will commence.
59	12	SW 137 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & SW 81 St.	This project was in the planning/validation phase.	Design will commence.
60	8	PS 1013	PS 1012	This project was in the planning/validation phase.	Planning will continue.
61	10	PS 1012	SW 144 Ave. & SW 280 St.	This project was in the planning/validation phase.	Planning will continue.
62	8	PS 1011	SW 144 Ct. & SW 280 St.	This project was in the planning/validation phase.	Planning will continue.
63	10	SW 147 Ave. & SW 288 St.	SW 134 Pl. & SW 288 St.	This project was in the planning/validation phase.	Design will commence.
64	6	PS 1009	SW 147 Ave. & SW 296 St.	This project was in the planning/validation phase.	Planning will continue.
65	6	PS 1006	PS 1005	This project was in the planning/validation phase.	Planning will continue.

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

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

Table A-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 of the CD. 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.	Permitting continued.	Permitting will be completed and procurement 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 of the CD. 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.	Design continued.	Design will be completed and permitting 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 of the CD. 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.	Design continued.	Design will continue.
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 of the CD. The existing equipment of the PS is beyond its useful life. This project involves the replacement of electrical switchgear in PS No. 0414.	Design commenced.	Design will continue.
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 of the CD. The existing equipment of the PS is beyond its useful life and the wet well structure is badly deteriorated due to H2S. This project involves the replacement of electrical switchgear and the rehabilitation of the wet well to include an odor control unit.	Design commenced.	Design will continue.
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 of the CD. The existing equipment of the PS is beyond its useful life. This project involves the replacement of electrical switchgear in PS No. 0416.	Design commenced.	Design will continue.

Table A-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 of the CD. The existing equipment of the PS is beyond its useful life and the wet well structure is badly deteriorated due to H2S. 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.	Design commenced.	Design will continue.
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 of the CD. 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.	Design commenced.	Design will be completed and permitting 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 of the CD. 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.	Design continued.	Design will continue.
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 of the CD. The existing equipment is beyond its useful life. This project involves the conversion of the PS a submersible type station.	Design commenced.	Design will be completed and permitting 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 of the CD. 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.	Design continued.	Design will continue.

Table A-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	<p>The Replacement of Switchgear PS No. 0187 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	Design commenced.	Design will be completed and permitting will commence.
5.13	Refurbish Emergency Generators and Controls at Regional PSs	<p>The Refurbish Emergency Generators and Controls at regional PSs project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	Procurement and construction continued.	Procurement and construction will be completed.
5.14	Upgrade of PSs Nos. 0086 and 0492	<p>The Upgrade of Pump Stations No. 0086 and 0492 project was performed and completed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	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 A-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, 0334, 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 of the CD. 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>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. PS No. 0065 completed design, commenced and completed permitting, commenced and completed procurement, and commenced construction. PSs Nos. 0201 and 0334 completed procurement and commenced construction. PS No. 0607 completed procurement phase and commenced construction.</p>	<p>Construction will be completed for PSs Nos. 0065, 0201, 0334 and 0607.</p>

Table A-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
5.16	Upgrade of PSS Nos. 0198, 0437, 0466, 0680	<p>The Upgrade of PSSs No. 0198, 0437, 0466, 0680 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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 PSSs 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>Design commenced for upgrades to all PSSs.</p>	<p>Design will be completed. Permitting will commence and be completed. Procurement will commence.</p>
5.17	Upgrade of PSSs Nos. 0037, 0351, 0370, 0403	<p>The Upgrade of PSSs No. 0037, 0351, 0370, 0403 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	<p>In validation/planning stage.</p>	<p>No activities milestone scheduled.</p>

Table A-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
5.18	Upgrade of PSs Nos. 0441, 0491, 0710, 0827, 0852, 1236	<p>The Upgrade of PSs No. 0441, 0491, 0710, 0827, 0852, 1236 project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	In validation/planning stage.	No activities milestone scheduled.
5.19	SCADA RTU Upgrades	<p>The SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D of the CD. 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.</p>	Construction on RTU upgrades were ongoing.	Construction will continue.

Appendix B Project Schedules Gantt Chart

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Activity Name	Start	Finish	2015												
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
WASD Consent Decree Baseline Schedule Revision 1 - June 2015 Update															
0. General Compliance Activities															
Reporting Requirements															
2015 Quarterly Report No 2	06-Jun-14 A	29-Dec-23													
2015 Quarterly Report No 3	30-Jun-15	30-Oct-15													
Semi Annual Reports															
2015 Semi Annual Report No 1	30-Jun-15	30-Jul-15													
Program Management/Construction Management Support															
Program Management/Construction Management	06-Jun-14 A	29-Dec-23													
1. South District WWTP															
1.1 Headworks															
Procurement - SD Headworks	19-Nov-13 A	07-Apr-22													
Construction - SD Headworks	02-Feb-15 A	24-Jan-18													
1.2 Oxygen Production															
Engineering Design - SD Oxygen Production	09-Apr-15 A	07-Jan-16													
Basis of Design Report (BODR) - SD Oxygen Production	09-Apr-15 A	11-Jul-15													
BODR Review Period - SD Oxygen Production	12-Jul-15	25-Jul-15													
30% Design Submittal - SD Oxygen Production	26-Jul-15	09-Sep-15													
30% Design Review - SD Oxygen Production	10-Sep-15	23-Sep-15													
60% Design Submittal - SD Oxygen Production	24-Sep-15	04-Nov-15													
60% Design Review - SD Oxygen Production	05-Nov-15	18-Nov-15													
100% Design Submittal - SD Oxygen Production	19-Nov-15	07-Jan-16													
1.5 Effluent Pump Station															
Engineering Design - SD Effluent Pump Station	19-Nov-13 A	07-Apr-22													
Permitting - SD Effluent Pump Station	19-Nov-13 A	10-Jul-17													
Procurement - SD Effluent Pump Station	19-Nov-13 A	10-Jul-18													
Construction - SD Effluent Pump Station	18-Feb-14 A	10-Jul-19													
1.5 (1.1) Effluent Pump Station Electrical Equipment (Pumps 7-9)															
Install Electrical Equipment- SD Effluent Pump Station Electrical Equipment	20-May-14 A	07-Apr-22													
Substantial Completion (CD Compliance Date 4/07/22) - SD Effluent Pump Station	23-Feb-15 A	24-Sep-15													
Substantial Completion (CD Compliance Date 4/07/22) - SD Effluent Pump Station	23-Feb-15 A	24-Sep-15													
1.5 (1.2) Effluent Pump Wetwell Structural Rehab															
Structural Rehab Wetwell #3 - SD Effluent Pump Station Wetwell S	16-Feb-15 A	14-Mar-16													
Structural Rehab Wetwell #3 - SD Effluent Pump Station Wetwell S	16-Feb-15 A	28-Sep-15													

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Date	Revision	Date	Revision	Date	Revision
14-Jul-14	Revision 0	14-Jul-14	Revision 0	14-Jul-14	Revision 0
22-Aug-14	July 2014 Update	22-Aug-14	July 2014 Update	22-Aug-14	July 2014 Update
13-Jan-15	December 2014 Update	13-Jan-15	December 2014 Update	13-Jan-15	December 2014 Update
14-Jul-15	June 2015 Update	14-Jul-15	June 2015 Update	14-Jul-15	June 2015 Update



Activity Name	2015											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Structural Rehab Wetwell #4 - SD Effluent Pump Station Wetwell S												
1.6 Gravity Sludge Thickeners												
Engineering Design - SD Gravity Sludge Thickeners												
Basis of Design Report (BODR) - SD Gravity Sludge Thickeners												
BODR Design Review - SD Gravity Sludge Thickeners												
1.7 Digesters and Control Building												
Engineering Design - SD Digesters & Control Building												
30% Design Submittal - SD Digesters & Control Building												
30% Design Review - SD Digesters & Control Building												
Perform VE Study - SD Digesters & Control Building												
60% Design Submittal - SD Digesters & Control Building												
1.8 Dewatering Facility												
Engineering Design (DCP) - SD Dewatering Facilities												
Basis of Design Report (BODR) - SD Dewatering Facilities												
Pilot Testing of Thickening Process - SD Dewatering Facilities												
Design Criteria Package Initial Submittal - SD Dewatering Facilities												
Perform VE Study - SD Dewatering Facilities												
Procurement - SD Dewatering Facilities												
DCP Design Review - SD Dewatering Facilities												
Design-Builder RFQ (Tier 1) - SD Dewatering Facilities												
Final DCP Submittal - SD Dewatering Facilities												
Permitting - SD Dewatering Facilities												
Environmental Permits - SD Dewatering Facilities												
1.9 FOG Removal Facility												
Engineering Design - SD FOG Removal Facility												
Basis of Design Report (BODR) Submittal - SD FOG Removal Facility												
BODR Design Review - SD FOG Removal Facility												
60% Design Submittal - SD FOG Removal Facility												
60% Design Review - SD FOG Removal Facility												
100% Design Submittal - SD FOG Removal Facility												
Permitting - SD FOG Removal Facility												
Owner Pre-Purchase Scrapers - SD FOG Removal Facility												

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13-Jan-15	December 2014 Update		
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Activity Name	Six Month Schedule Layout											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1.11 General Electrical												
Pre-Design - SD General Electric												
2. Central District WWTP												
2.2 Building Improvements												
Engineering Design - CD Repairs to Various Buildings												
Procurement - CD Repairs to Various Buildings												
Permitting - CD Repairs to Various Buildings												
Construction - CD Repairs to Various Buildings												
2.2 (1.1) WASD Requested Administration Building Remodel												
Permitting (Remodel) - CD Administration Building												
Bid & Award Building Remodel - CD Administration Building												
2.2 (1.2) Miscellaneous Roof Repairs												
Procurement - CD Misc. Roof Repairs												
Maintenance Building Roof Repairs - CD Misc. Roof Repairs												
Operation & Control Building Roof Repairs - CD Misc. Roof Repairs												
Administration Building Roof Repairs - CD Misc. Roof Repairs												
2.2 (2) Remodel Bathrooms, Locker Rooms & Showers												
Engineering Design - CD Misc. Building Improvements												
Negotiate Phase II Design												
Permitting - CD Misc. Building Improvements												
2.3 Headworks/Grit Basin Plant 1												
Engineering Design - CD Headworks/Grit Basin Plant 1												
60% Design Submittal - CD Headworks/Grit Basin Plant 1												
Owner Pre-purchase Screening Equipment - CD Headworks/Grit Basin Plant 1												
60% Design Review - CD Headworks/Grit Basin Plant 1												
100% Design Submittal - CD Headworks/Grit Basin Plant 1												
2.4 Headworks/Grit Basin Plant 2												
Engineering Design - CD Headworks/Grit Basin Plant 2												
60% Design Submittal - CD Headworks/Grit Basin Plant 2												
Owner Pre-purchase Screening Equipment - CD Headworks/Grit Basin Plant 2												
60% Design Review - CD Headworks/Grit Basin Plant 2												
100% Design Submittal - CD Headworks/Grit Basin Plant 2												
2.5 Oxygenation Trains Plant 1												
Engineering Design - CD Headworks/Grit Basin Plant 1												
60% Design Submittal - CD Headworks/Grit Basin Plant 1												
Owner Pre-purchase Screening Equipment - CD Headworks/Grit Basin Plant 1												
60% Design Review - CD Headworks/Grit Basin Plant 1												
100% Design Submittal - CD Headworks/Grit Basin Plant 1												

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Activity Name	Six Month Schedule Layout											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Structural Rehab Train #2 - CD Oxygenation Trains Plant 1												
2.6 Oxygenation Trains Plant 2												
Install Mixer Electrical Equip. & Expand Structure - CD Oxygenation Trains Plant 1												
Install Mixers Trains #2-4 - CD Oxygenation Trains Plant 2												
2.8 Secondary Clarifiers Plant 2												
Pre-Design - CD Secondary Clarifiers Plant 2												
Engineering Design - CD Secondary Clarifiers Plant 2												
Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 2												
2.10 Return Sludge PS Plant 2												
Pre-Design - CD Return Sludge PS Plant 2												
Engineering Design - CD Return Sludge PS Plant 2												
Basis of Design Report (BODR) - CD Return Sludge PS Plant 2												
2.12 Gravity Sludge Thickeners Plant 1												
Engineering Design - CD Gravity Sludge Thickeners Plant 1												
Basis of Design Report (BODR) - CD Gravity Sludge Thickeners Plant 1												
2.13 Gravity Sludge Thickeners Plant 2												
Engineering Design - CD Gravity Sludge Thickeners Plant 2												
Basis of Design Report (BODR) - CD Gravity Sludge Thickeners Plant 2												
BODR Design Review - CD Gravity Sludge Thickeners Plant 2												
Procurement - CD Gravity Sludge Thickeners Plant 2												
Design Criteria Package Initial Submittal - CD Gravity Sludge Thicker												
Design-Builder RFQ (Tier 1) - CD Gravity Sludge Thickeners Plant 2												
2.15 Digesters Plant 2												
2.15.1 Cluster 1												
Engineering Design - CD Digesters Plant 2 Cluster 1												
Construction of Digester Cover (1) - CD Digesters Plant 2 Cluster 1												
60% Design Submittal - CD Digesters Plant 2 Cluster 1												
60% Design Review - CD Digesters Plant 2 Cluster 1												
100% Design Submittal - CD Digesters Plant 2 Cluster 1												
Permitting - CD Digesters Plant 2 Cluster 1												
Owner Pre-Purchase Remaining Digester Covers (3) - CD Digesters Plant 2 Cluster 1												
2.15.4 Cluster 4												
Engineering Design - CD Digesters Plant 2 Cluster 4												
Construction of Digester Cover (1) - CD Digesters Plant 2 Cluster 4												
60% Design Submittal - CD Digesters Plant 2 Cluster 4												
60% Design Review - CD Digesters Plant 2 Cluster 4												
100% Design Submittal - CD Digesters Plant 2 Cluster 4												
Permitting - CD Digesters Plant 2 Cluster 4												
Owner Pre-Purchase Remaining Digester Covers (3) - CD Digesters Plant 2 Cluster 4												

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Activity Name	Six Month Schedule Layout											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Pre-Design - CD Digesters Plant 2 Cluster 4	[Gantt bar: Jan-Jul]											
Engineering Design - CD Digesters Plant 2 Cluster 4	[Gantt bar: Jan-Jul]											
Basis of Design Report (BODR) - CD Digesters Plant 2 Cluster 4	[Gantt bar: Jan-Jul]											
BODR Review Period - CD Digesters Plant 2 Cluster 4	[Gantt bar: Jan-Jul]											
30% Design Submittal - CD Digesters Plant 2 Cluster 4	[Gantt bar: Jan-Jul]											
30% Design Review - CD Digesters Plant 2 Cluster 4	[Gantt bar: Jan-Jul]											
60% Design Submittal - CD Digesters Plant 2 Cluster 4	[Gantt bar: Jan-Jul]											
2.16 Dewatering Building	[Gantt bar: Jan-Jul]											
Engineering Design - CD Dewatering Building	[Gantt bar: Jan-Jul]											
Basis of Design Report (BODR) - CD Dewatering Building	[Gantt bar: Jan-Jul]											
BODR Review Period - CD Dewatering Building	[Gantt bar: Jan-Jul]											
2.17 Chlorination Facilities	[Gantt bar: Jan-Jul]											
Engineering Design - CD Chlorination Facilities	[Gantt bar: Jan-Jul]											
Negotiate Scope and Cost with MWH - CD Chlorination Facilities	[Gantt bar: Jan-Jul]											
60% Design Submittal - CD Chlorination Facilities	[Gantt bar: Jan-Jul]											
Owner Pre-Purchase Tanks & Pumps - CD Chlorination Facilities	[Gantt bar: Jan-Jul]											
60% Design Review - CD Chlorination Facilities	[Gantt bar: Jan-Jul]											
100% Design Submittal - CD Chlorination Facilities	[Gantt bar: Jan-Jul]											
2.19 Co-Gen Improvements	[Gantt bar: Jan-Jul]											
Engineering Design - CD Co-Gen Improvements	[Gantt bar: Jan-Jul]											
Permitting - CD Co-Gen Improvements	[Gantt bar: Jan-Jul]											
Procurement - CD Co-Gen Improvements	[Gantt bar: Jan-Jul]											
Construction - CD Co-Gen Improvements	[Gantt bar: Jan-Jul]											
2.19 (1) Co-Gen Generator Replacement	[Gantt bar: Jan-Jul]											
Construction - CD Co-Gen Generator Replacement	[Gantt bar: Jan-Jul]											
Substantial Completion (CD Compliance Date 3/31/19) - CD Co-Gen	[Gantt bar: Jan-Jul]											
2.19 (2) Co-Gen Biogas Treatment Facilities	[Gantt bar: Jan-Jul]											
Engineering Design - CD Co-Gen Biogas Treatment Facilities	[Gantt bar: Jan-Jul]											
Basis of Design Report (BODR) - CD Co-Gen Biogas Treatment Facilities	[Gantt bar: Jan-Jul]											
Negotiate Final Design - CD Co-Gen Biogas Treatment Facilities	[Gantt bar: Jan-Jul]											
BODR Review Period - CD Co-Gen Biogas Treatment Facilities	[Gantt bar: Jan-Jul]											
60% Design Submittal - CD Co-Gen Biogas Treatment Facilities	[Gantt bar: Jan-Jul]											

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Activity Name	2015											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2.21 Pump Station No.1												
Pre-Design - CD Pump Station No. 1												
Engineering Design - CD Pump Station No. 1												
Basis of Design Report (BODR) - CD Pump Station No. 1												
BODR Review Period - CD Pump Station No. 1												
30% Design Submittal - CD Pump Station No. 1												
2.22 Pump Station No.2												
Engineering Design - CD Pump Station No. 2												
Basis of Design Report (BODR) - CD Pump Station No. 2												
Negotiation of Final Design - CD Pump Station No. 2												
BODR Review Period - CD Pump Station No. 2												
60% Design Submittal - CD Pump Station No. 2												
60% Design Review - CD Pump Station No. 2												
100% Design Submittal - CD Pump Station No. 2												
2.23 O2 Plant Process Controls Phase 2												
Construction - CD O2 Plant Process Controls Phase 2												
2.24 Gas Monitoring and Alarms												
Engineering Design - CD Gas Monitoring and Alarms												
Permitting - CD Gas Monitoring and Alarms												
2.26 Rehabilitation of Walkways and Stairways												
Construction - CD Rehab of Walkways & Stairways												
2.27 Oxygen Production												
Engineering Design - CD Oxygen Production												
Basis of Design Report (BODR) - CD Oxygen Production												
Negotiate Phase II Design - CD Oxygen Production												
BODR Review Period - CD Oxygen Production												
30% Design Submittal - CD Oxygen Production												
3. North District WWTP												
3.1 Headworks and Sludge Dewatering & Transfer												
Permitting - ND Headworks & Sludge Dewatering												
Owner Pre-Purchase - Fabricate/Deliver Electrical Equip. - ND Headw												
Owner Pre-Purchase/Fabricate/Deliver Screens - ND Headworks & S												

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Activity Name	Six Month Schedule Layout											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Procurement - ND Headworks & Sludge Degritting												
Construction Phase 2: Building Improvements - ND Headworks & Sluc												
Construction Phase 1: Screens - ND Headworks & Sludge Degritting												
3.2 Primary Clarifiers and Odor Control												
Engineering Design - ND Primary Clarifiers & Odor Control												
Basis of Design Report (B&C) - ND Primary Clarifiers & Odor Control												
Pre-Design (MWH) - ND Primary Clarifiers & Odor Control												
30% Design Submittal - ND Primary Clarifiers & Odor Control												
30% Design Review - ND Primary Clarifiers & Odor Control												
3.5 Secondary Clarifiers												
Engineering Design - ND Secondary Clarifiers												
Procurement - ND Secondary Clarifiers												
Construction - ND Secondary Clarifiers												
3.5 (1) Secondary Clarifiers (Replace Mechanisms #3, 6 & 8)												
Construction - ND Secondary Clarifiers (Replace Mechanisms #3,												
3.5 (2) Secondary Clarifiers (Replace Mechanisms #1, 2, 4, 5, 7, 9, & 10)												
Procurement - ND Secondary Clarifiers (Replace Mechanisms #1,												
Construction - ND Secondary Clarifiers (Replace Mechanisms #1,												
3.5 (3) Secondary Clarifiers (Remaining Scope of Work)												
Engineering Design - ND Secondary Clarifiers (Remaining Scope)												
Negotiate Scope & Cost with MWH - ND Secondary Clarifiers (Ren												
30% Design Submittal - ND Secondary Clarifiers (Remaining Scope)												
3.6 Disinfection												
Engineering Design - ND Disinfection												
Revise Design for Code and Storm Surge Changes - ND Disinfection 1												
3.7 Effluent Disposal												
Procurement - ND Effluent Disposal												
Permitting - ND Effluent Disposal												
Construction - ND Effluent Disposal												
Substantial Completion (CD Compliance Date 12/28/21) - ND Effluent												
3.7 (1)a Deep Injection Well Pump Station - Mechanical												
Engineering Design - Mechanical- DIW Pump Station												
Permitting - Mechanical - DIW Pump Station												

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Activity Name	Six Month Schedule Layout											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Procurement - Mechanical - DIW Pump Station												
3.7 (1)b Deep Injection Well Pump Station - Electrical												
Owner Pre-Purchase Elect. Equip. - DIW Pump Station												
Construction - Electrical - DIW Pump Station												
3.8 Plant Wide Electrical												
Permitting - ND Plant Wide Electrical												
Procurement - ND Plant Wide Electrical												
Construction - ND Plant Wide Electrical												
3.9 Flood Mitigation												
Procurement - ND Flood Mitigation												
Construction - ND Flood Mitigation												
3.10 Yard Piping Replacement												
Construction - ND Yard Piping Replacement												
Rehab 1st 84" Pipe - ND Yard Piping Replacement												
Rehab 2nd 84" Pipe - ND Yard Piping Replacement												
4. Wastewater Collection & Transmission Line												
4.1 Collection System I/I Repairs												
Construction - Collection System I/I Repair												
Substantial Completion (CD Compliance Date 9/27/27) - Collection Sy												
4.1.1 - SSES I/I Repairs												
SSES Contractor Procurement - 2015/2016 Fiscal Year												
SSES Contract (Construction) - 2015/2016 Fiscal Year												
4.1.2 - CIPP I/I Repairs												
CIPP Contractor Procurement - 2015/2016 Fiscal Year												
CIPP Contract (Construction) - 2015/2016 Fiscal Year												
4.1.3 - Dig & Replace I/I Repairs												
Dig & Replace Contractor Procurement - 2015/2016 Fiscal Year												
Dig & Replace Contract (Construction) - 2015/2016 Fiscal Year												
4.1.4 - MDWASD I/I Repairs												
Construction - Collection System I/I Repair (MDWASD)												
4.3 Government Cut FM - Phase 3												
Final Design (Design-Builder) - Government Cut FM Phase 3												
Permitting - Government Cut FM Phase 3												

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Activity Name	Six Month Schedule Layout											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Construction - Government Cut FM Phase 3												
4.4 North Dade 72 inch PCCP FM Rehabilitation												
Final Design (Design-Builder) - North Dade 72" PCCP FM Rehab												
Permitting - North Dade 72" PCCP FM Rehab												
Construction - North Dade 72" PCCP FM Rehab												
4.5 South Dade 54 inch PCCP FM Rehabilitation												
Engineering Design - South Dade 54" PCCP FM Rehab												
Permitting - South Dade 54" PCCP FM Rehab												
4.5 (1) 48/54" FM from SW 127 Ave/SW 280 St. to SW 107 Ave/SW 2												
30% Submittal Review - 48/54 Inch FM (Phase 1)												
60% Design Submittal - 48/54 Inch FM (Phase 1)												
60% Design Review - 48/54 Inch FM (Phase 1)												
100% Design Submittal - 48/54 Inch FM (Phase 1)												
Permitting - 48/54 Inch FM (Phase 1)												
Pre-Purchase 54" Pipe & Valves - 48/54 Inch FM (Phase 1)												
4.5 (2) Rehab/Replace 2.5 Miles of 54" FM from SW280h S./112th A												
Engineering Design - Rehab/Replace 2.5 Miles of 54" FM												
Permitting - Rehab/Replace 2.5 Miles of 54" FM												
4.7 Replacement of 18 inch DIP FM in Miami Lakes												
Construction - Replace 18" DIP FM in Miami Lakes												
4.8 Rehabilitation of 54 inch PCCP FM in the City												
Engineering Design (DCP) - Rehab 54" PCCP FM in the City												
Permitting - Rehab 54" PCCP FM in the City												
Procurement - Rehab 54" PCCP FM in the City												
4.8 (1) Rehab 2 Miles of 54 inch PCCP FM (Consent Decree)												
Basis of Design Report (BODR) - Rehab 2 Miles of 54" PCCP FM in the City												
BODR Design Review - Rehab 2 Miles of 54" PCCP FM in the City												
30% Design Submittal - Rehab 2 Miles of 54" PCCP FM in the City												
30% Design Review - Rehab 2 Miles of 54" PCCP FM in the City												
60% Design Submittal - Rehab 2 Miles of 54" PCCP FM in the City												
100% Design Submittal - Rehab 2 Miles of 54" PCCP FM in the City												
60% Design Review - Rehab 2 Miles of 54" PCCP FM in the City												
Permitting - Rehab 2 Miles of 54" PCCP FM in the City												

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Activity Name	Six Month Schedule Layout											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Contractor Bid & Award - Rehab 2 Miles of 54" PCCP FM in the City												
4.8 (2) Rehab/Replace an Additional 2 Miles of 54" PCCP FM (Non												
Basis of Design Report (BODR) - Rehab/Replace Additional 2 Mile:												
BODR Design Review - Rehab/Replace Additional 2 Miles of 54" P												
30% Design Submittal - Rehab/Replace Additional 2 Miles of 54" P												
30% Design Review - Rehab/Replace Additional 2 Miles of 54" PC												
60% Design Submittal - Rehab/Replace Additional 2 Miles of 54" P												
4.9 Replace Approximately 30 miles of AC FM Transmission Sy												
Engineering Design - Replace ~30 miles of AC FM Trans System												
Permitting - Replace ~30 miles of AC FM Trans System												
Procurement - Replace ~30 miles of AC FM Trans System												
Construction - Replace ~30 miles of AC FM Trans System												
4.9 (1) Replacement of 2,757 LF of 12" ACP FM - SW 112th Ave. frc												
Pre-Design - 4.9 (1) Replace 2,757 LF 12" ACP FM												
Engineering Design - 4.9 (1) Replace 2,757 LF 12" ACP FM												
Permitting - 4.9 (1) Replace 2,757 LF 12" ACP FM												
4.9 (2) Replacement of 2,200 LF of 12" ACP FM - NE 14th Ave. for												
Engineering Design - 4.9 (2) Replace 2,200 LF of 12" ACP FM												
Permitting - 4.9 (2) Replace 2,200 LF of 12" ACP FM												
4.9 (6-7) Replace 325LF of 6" ACP FM from PS #0362 to NW52nd C												
Engineering Design - 4.9 (6-7) Replace 325 LF of 6" & 400LF of 10'												
Permitting - 4.9 (6-7) Replace 325 LF of 6" & 400LF of 10" ACP FM												
4.9 (9-13) Replacement of 6, 8 and 12" ACP FM Between PS#0385,												
Construction - 4.9 (9-13) Replace 6", 8" & 12" ACP FM												
Substantial Completion (CD Compliance Date 10/08/19) - 4.9 (9-13)												
4.9 (20-21) Replace 467LF 8" ACP FM from PS#0366 to NW42ndPI/												
Engineering Design - 4.9 (20-21) Replace 467LF 8" ACP FM												
Permitting - 4.9 (20-21) Replace 467LF 8" ACP FM												
4.9 (22) Replacement of 2,056 LF of 6" ACP FM from PS#358 to PS												
Engineering Design - 4.9 (22) Replace 2,056 LF of 6" ACP FM												
Permitting - 4.9 (22) Replace 2,056 LF of 6" ACP FM												
4.9 (23) Replacement of 11,027 LF of 8" ACP FM from PS#1022 ro P												
Pre-Design - 4.9 (23) Replace 11,027 LF of 8" ACP FM												

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Engineering Design - 4.9 (23) Replace 11,027 LF of 8" ACP FM												
4.9 (24) Replacement of 800 LF of 8" ACP FM from PS#0353 to NV												
Engineering Design - 4.9 (24) Replace 800 LF of 8" ACP FM												
Permitting - 4.9 (24) Replace 800 LF of 8" ACP FM												
4.9 (25-26) Replacement of 1425 LF of 10" ACP FM from NW123rd												
Engineering Design - 4.9 (25-26) Replace 1,425 LF of 10" ACP FM												
Permitting - 4.9 (25-26) Replace 1,425 LF of 10" ACP FM												
4.9 (27) Replace 310 LF of 4" ACP FM in SW 149th Ter from SW 89												
Pre-Design - 4.9 (27) Replace 310 LF of 4" ACP FM												
Engineering Design - 4.9 (27) Replace 310 LF of 4" ACP FM												
Permitting - 4.9 (27) Replace 310 LF of 4" ACP FM												
4.9 (28) Replacement of 1,610 LF of 8" ACP FM from PS0786 to MI												
Pre-Design - 4.9 (28) Replace 1,610 LF of 8" ACP FM												
Engineering Design - 4.9 (28) Replace 1,610 LF of 8" ACP FM												
Permitting - 4.9 (28) Replace 1,610 LF of 8" ACP FM												
4.9 (29-31) Replace 12" & 10" ACP FM BTW PS#0812 & SW 102nd												
Engineering Design - 4.9 (29-31) Replace 12" & 10" ACP FM												
Permitting - 4.9 (29-31) Replace 12" & 10" ACP FM												
4.9 (32) Replacement of 851 LF of 12" ACP FM in SW 107th Ave. fr												
Engineering Design - 4.9 (32) Replace 852 LF of 12" ACP FM												
Permitting - 4.9 (32) Replace 852 LF of 12" ACP FM												
4.9 (33) Replace 1266 LF 4" ACP FM from PVT PS at SW104th Ave.												
Pre-Design - 4.9 (33) Replace 1266 LF of 4" ACP FM												
Engineering Design - 4.9 (33) Replace 1266 LF of 4" ACP FM												
Permitting - 4.9 (33) Replace 1266 LF of 4" ACP FM												
4.9 (34-43), PCTS 13182, 13184, 13189 Replace 4", 6", 8", 10" & 12"												
Pre-Design - 4.9 (34-43), PCTS 13182, 13184, 13189 Replace 4", 6												
Engineering Design - 4.9 (34-43), PCTS 13182, 13184, 13189 Repl.												
4.9 (44-45) Replacement of 1200 LF of 8" ACP FM from PS#0810 tr												
Pre-Design - 4.9 (44-45) Replace 1200 LF of 8" ACP FM												
Engineering Design - 4.9 (44-45) Replace 1200 LF of 8" ACP FM												
Permitting - 4.9 (44-45) Replace 1200 LF of 8" ACP FM												
4.9 (46) Replacement of 140 LF of 6" ACP FM from SW107th Ct/15												

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Pre-Design - 4.9 (46) Replace 140 LF of 6" ACP FM												
Engineering Design - 4.9 (46) Replace 140 LF of 6" ACP FM												
Permitting - 4.9 (46) Replace 140 LF of 6" ACP FM												
4.9 (47) Replacement of 973 LF of 8" ACP FM from PS#0869 to SW												
Engineering Design - 4.9 (47) Replace 973 LF of 8" ACP FM												
Permitting - 4.9 (47) Replace 973 LF of 8" ACP FM												
4.9 (48-53, 63) PCTS 13197 - 13203, 13316 Replacement of 10-Inch												
Pre-Design - 4.9 (48-53, 63) PCTS 13197 - 13203, 13316 Replacen												
Engineering Design - 4.9 (48-53, 63) PCTS 13197 - 13203, 13316 F												
4.9 (54-56) Replace 5043LF of 12" ACP FM - SW 72nd St from 137t												
Pre-Design - 4.9 (54-56) 5,043 LF of 12" ACP FM												
Engineering Design - 4.9 (54-56) 5,043 LF of 12" ACP FM												
4.9 (57-59) Replace 1441LF 8", 2101LF 10" & 776LF 12" ACP FM - K												
Pre-Design - 4.9 (57-59) Replace 1,441 LF of 8", 2,101 LF of 12" &												
Engineering Design - 4.9 (57-59) Replace 1,441 LF of 8", 2,101 LF												
4.9 (67) Replace 2,700 LF of 8" ACP FM from PS#1132 Along Bikin												
Engineering Design - 4.9 (67) Replace 2,700 LF of 8" ACP FM												
Permitting - 4.9 (67) Replace 2,700 LF of 8" ACP FM												
4.9 (68) Replacement of 3,400 LF of 6" and 8" ACP FM, from PS#0												
Engineering Design - 4.9 (68) Replace 3,400 LF of 6" and 8" ACP F												
Permitting - 4.9 (68) Replace 3,400 LF of 6" and 8" ACP FM												
4.9 (69) Replacement of 2,320 LF of 12" ACP FM from PS#0333 So												
Engineering Design - 4.9 (69) Replace 2,320 LF of 12" ACP FM												
Permitting - 4.9 (69) Replace 2,320 LF of 12" ACP FM												
4.9 (70) Replace 10" ACP FM Along US-1 from 184th St. to Caribbe												
Pre-Design (Revised Project Scope) - 4.9 (70)												
Engineering Design (Revised Project Scope) - 4.9 (70)												
Permitting - 4.9 (70)												
4.9 (71) Replace 10" ACP FM from PS#0445, West to NW 207th St. :												
Engineering Design - 4.9 (71) Replace 10" ACP FM												
Permitting - 4.9 (71) Replace 10" ACP FM												
4.9 (72) Replace 9,045 LF of 8", 12" and 16" ACP FM from PS#0891												
Pre-Design - 4.9 (72) Replace 9,045 LF of 8", 10, & 12" ACP FM												

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Engineering Design - 4.9 (72) Replace 9,045 LF of 8", 10, & 12" AC												
4.9 (73) Replacement of 10" FM from PS#0735 and Private PS Sou												
Engineering Design - 4.9 (73) Replace 10" ACP FM from PS#07351												
4.10 Opa-Locka Airport 48" PCCP Force Main Replacement												
Engineering Design - Replace 48" PCCP FM @ Opa-Locka Airport												
30% Design Submittal - Replace 48" PCCP FM @ Opa-Locka Airport												
30% Design Review - Replace 48" PCCP FM @ Opa-Locka Airport												
60% Design Submittal - Replace 48" PCCP FM @ Opa-Locka Airport												
60% Design Review - Replace 48" PCCP FM @ Opa-Locka Airport												
100% Design Submittal - Replace 48" PCCP FM @ Opa-Locka Airport												
Permitting - Replace 48" PCCP FM @ Opa-Locka Airport												
5. Sewer Pump Station System												
5.1 Upgrade of PS#0418												
Permitting - Upgrade PS#0418												
Procurement - Upgrade PS#0418												
5.2 Upgrade of PS#0691												
Engineering Design - Upgrade PS#0691												
Negotiate Scope & Fee of Remaining Design - Upgrade PS#0691												
BODR Review Period - Upgrade PS#0691												
30% Design Submittal - Upgrade PS#0691												
30% Design Review - Upgrade PS#0691												
60% Design Submittal - Upgrade PS#0691												
60% Design Review - Upgrade PS#0691												
100% Design Submittal - Upgrade PS#0691												
Permitting - Upgrade PS#0691												
Pre-Purchase Pumps, Motors & VFDs - Upgrade PS#0691												
5.3 Upgrade of PS#0692												
Engineering Design - Upgrade PS#0692												
Basis of Design Report (BODR) - Upgrade PS#0692												
Negotiate Scope & Fee of Remaining Design - Upgrade PS#0692												
BODR Review Period - Upgrade PS#0692												
30% Design Submittal - Upgrade PS#0692												

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30% Design Review - Upgrade PS#0692												30% Design F
60% Design Submittal - Upgrade PS#0692												60%
60% Design Review - Upgrade PS#0692												
100% Design Submittal - Upgrade PS#0692												
5.4 Replacement of Switchgear PS#0414												
Engineering Design - PS#0414												
BODR Review Period - PS#0414												
Negotiate Scope & Fee of Remaining Design - PS#0414												
30% Design Submittal - PS#0414												
30% Design Review - PS#0414												
60% Design Submittal - PS#0414												
5.5 Replacement of Switchgear and Rehabilitation of Wetwell F												
Engineering Design - PS#0415												
BODR Review Period - PS#0415												
Negotiate Scope & Fee of Remaining Design - PS#0415												
30% Design Submittal - PS#0415												
30% Design Review - PS#0415												
60% Design Submittal - PS#0415												
5.6 Replacement of Switchgear PS#0416												
Engineering Design - PS#0416												
BODR Review Period - PS#0416												
Negotiate Scope & Fee of Remaining Design - PS#0416												
30% Design Submittal - PS#0416												
30% Design Review - PS#0416												
60% Design Submittal - PS#0416												
5.7 Replacement of Switchgear and Rehabilitation of Wetwell F												
Engineering Design - PS#0417												
BODR Review Period - PS#0417												
Negotiate Scope & Fee of Remaining Design - PS#0417												
30% Design Submittal - PS#0417												
30% Design Review - PS#0417												
60% Design Submittal - PS#0417												

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5.8 Replacement of Electrical and Mechanical Equipment in PS												
Engineering Design - PS#0107												Engineering
30% Design Submittal - PS#0107												30% Design Submittal - PS#0107
30% Design Review - PS#0107												30% Design Review - PS#0107
60% Design Submittal - PS#0107												60% Design Submittal
60% Design Review - PS#0107												60% Design Review
100% Design Submittal - PS#0107												100% Des
Permitting - PS#0107												
5.9 Replacement of Pumping and Electrical Equipment at PS#0												
Engineering Design - PS#0301												
Negotiate Scope & Fee of Remaining Design (HDR) - PS#0301												Negotiate Scope & Fee of Remain
30% Design Submittal - PS#0301												30% Design Subm
30% Design Review - PS#0301												30% Design Rev
60% Design Submittal - PS#0301												60% D
60% Design Review - PS#0301												60%
100% Design Submittal - PS#0301												
5.10 Upgrade of PS#0488												
Engineering Design - Upgrade PS#0488												Engineering Design
60% Design Submittal - Upgrade PS#0488												60% Design Submittal - Upgra
60% Design Review - Upgrade PS#0488												60% Design Review -Upgra
100% Design Submittal - Upgrade PS#0488												100% Design Subm
Permitting - Upgrade PS#0488												
5.11 Installation of 60 inch FM from Kendal Dr to PS#0536												
Engineering Design (DCP) - Install 60" FM from Kendal Dr. to PS#0536												
Basis of Design Report (BODR) - Install 60" FM from Kendal Dr. to PS												Basis of Design Report (BODR) -
Negotiate Balance of Design Scope & Fee (HDR) - Install 60" FM from												Negotiate Balance of Des
30% Design Submittal - Install 60" FM from Kendal Dr. to PS#0536												30% Design
30% Design Review - Install 60" FM from Kendal Dr. to PS#0536												30% Des
60% Design Submittal - Install 60" FM from Kendal Dr. to PS#0536												
5.12 Replacement of Switchgear at PS#0187												
Engineering Design - Replace S/G at PS#0187												Engin
Negotiate Balance of Design - Replace S/G at PS#0187												Negotiate Balance of Design - Replac

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	2015											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
30% Design Submittal - Replace S/G at PS#0187												
30% Design Review - Replace S/G at PS#0187												
60% Design Submittal - Replace S/G at PS#0187												
60% Design Review - Replace S/G at PS#0187												
100% Design Submittal - Replace S/G at PS#0187												
Permitting - Replace S/G at PS#0187												
Pre-Purchase Pumps, Motors & VFDs - PS#0187												
5.13 Refurbish Emergency Generators and Controls at Region.												
Procurement - Refurbish Emer Gen Controls at Pumpstations												
Construction - Refurbish Emer Gen Controls at Pumpstations												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish Em												
5.13 (1) Refurbish PS#0306 Emergency Generator & Controls (Cat												
Construction - Refurbish PS#0306 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.13 (2) Refurbish PS#0345 Emergency Generator & Controls (Cui												
Procurement - Refurbish PS#0345 Emergency Generator & Controls												
Construction - Refurbish PS#0345 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.13 (3) Refurbish PS#0346 Emergency Generator & Controls (Cui												
Procurement - Refurbish PS#0346 Emergency Generator & Controls												
Construction - Refurbish PS#0346 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.13 (4) Refurbish PS#0347 Emergency Generator & Controls (Cui												
Construction - Refurbish PS#0347 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.13 (5) Refurbish PS#0348 Emergency Generator & Controls (Cat												
Construction - Refurbish PS#0348 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.13 (8) Refurbish PS#0423 Emergency Generator & Controls (Cui												
Procurement - Refurbish PS#0423 Emergency Generator & Controls												
Construction - Refurbish PS#0423 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.13 (9) Refurbish PS#0424 Emergency Generator & Controls (Cui												
Construction - Refurbish PS#0424 Emergency Generator & Controls												

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Construction - Refurbish PS#0424 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.13 (10) Refurbish PS#0425 Emergency Generator & Controls (Ct)												
Procurement - Refurbish PS#0425 Emergency Generator & Controls												
Construction - Refurbish PS#0425 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.13 (12) Refurbish PS#0516 Emergency Generator & Controls (Ct)												
Construction - Refurbish PS#0516 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.13 (19) Refurbish PS#1072 Emergency Generator & Controls (Ct)												
Procurement - Refurbish PS#1072 Emergency Generator & Controls												
Construction - Refurbish PS#1072 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.13 (20) Refurbish PS#1073 Emergency Generator & Controls (Ct)												
Procurement - Refurbish PS#1073 Emergency Generator & Controls												
Construction - Refurbish PS#1073 Emergency Generator & Controls												
Substantial Completion (CD Compliance Date 7/20/16) - Refurbish												
5.15 Upgrade of PS#0065, 0201, 0334, 0374, 0607												
Construction - Upgrade PS#0065, 0201, 0334, 0374, 0607												
Substantial Completion (CD Compliance Date 12/31/15) - Upgrade PS												
5.15 (1) Pump Station 0065 Compliance Project												
Construction - PS#0065 Compliance Project												
Substantial Completion (CD Compliance Date 12/31/15) - PS#0065												
5.15 (1.1) FM for Pump Station 0065 Phase 1												
Construction - FM for PS#0065 Phase 1												
Substantial Completion (CD Compliance Date 12/31/15) - FM for P:												
5.15 (2) Pump Station 0201 Compliance Project												
Construction - PS#0201 Compliance Project												
Substantial Completion (CD Compliance Date 12/31/15) - PS#0201												
5.15 (3) Pump Station 0334 Compliance Project												
Construction - PS#0334 Compliance Project												
Substantial Completion (CD Compliance Date 12/31/15) - PS#0334												
5.15 (3.1) FM for Pump Station 0334												

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Construction - FM for Pump Station 0334												Construction - FM
Substantial Completion (CD Compliance Date 12/31/15) - FM for P1												Substantial Comple
5.15 (5) Pump Station 0607 Compliance Project												
Construction - PS#0607 Compliance Project												Construction - PS#
Substantial Completion (CD Compliance Date 12/31/15) - PS#0607												Substantial Comple
5.16 Upgrade of PS#0198, 0437, 0466, 0680												
Engineering Design - Upgrade PS#0198, 0437, 0466, 0680												Engineering Desi
Permitting - Upgrade PS#0198, 0437, 0466, 0680												Permitting
Procurement - Upgrade PS#0198, 0437, 0466, 0680												
5.16 (1) Pump Station 0198 Compliance Project												
Engineering Design - PS#0198 Compliance Project												Engineering Design - PS#019
Permitting - PS#0198 Compliance Project												Permitting
Procurement - PS#0198 Compliance Project												
5.16 (2) Pump Station No. 0437 Upgrade												
Engineering Design - PS#0437 Upgrade												Engineering Design - PS#043
Permitting - PS#0437 Upgrade												Permitting
Procurement - PS#0437 Upgrade												
5.16 (3) Pump Station 0466 Compliance Project												
Pre-Design - PS#0466 Compliance Project												Pre-Design - PS#0466 Compli
Engineering Design - PS#0466 Compliance Project												Engineering Desi
Permitting - PS#0466 Compliance Project												Permitting - PS
Procurement - PS#0466 Compliance Project												
5.16 (4) Pump Station 0680 Upgrade												
Engineering Design - PS#0680 Upgrade												Engineering Design - PS#068
Permitting - PS#0680 Upgrade												Permitting
Procurement - PS#0680 Upgrade												
5.17 Upgrade of PS#0037, 0351, 0370, 0403												
5.17 (1) Pump Station 0037 Compliance Project												
Pre-Design - PS#0037 Compliance Project												
5.17 (2) Pump Station No. 0351 Upgrade												
Pre-Design - PS#0351 Upgrade												
5.17 (2.1) Pump Station 0351 FM Replacement												
Pre-Design - PS#0351 FM Replacement												

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5.17 (3) Pump Station No. 0370 Upgrade and Installation of FM												
Pre-Design - PS#0370 Upgrade and FM Installation												
5.17 (3.1) Pump Station 0370 FM Replacement												
Pre-Design - PS#0370 FM Replacement												
5.17 (4) Pump Station 0403 Upgrade												
Pre-Design - PS#0403 Upgrade												
5.19 SCADARTU Upgrades												
Construction - PS SCADARTU Upgrades												
6. Supplemental Environmental Project												
Engineering Design - SEP												
6.0 Supplemental Environmental Project (SEP)												
Basis of Design Report (BODR) - SEP												
BODR Review Period - SEP												
Negotiate Scope & Fee for Balance of Design												
30% Design Submittal - SEP												
30% Design Review - SEP												
60% Design Submittal - SEP												
6.1 SEP (Early Phase Work)												
Design - Early Phase SEP												
Permitting - Early Phase SEP												
Procurement - Contractor Bid & Award - Early Phase SEP												
Construction - Early Phase SEP												
7. Capacity, Management, Operations & Maint. (CMOM) Program												
Pump Station Remote Monitoring												
Implementation of Pump Station Remote Monitoring												
WCTS Model												
Update WCTS Model												
Spare Parts Program												
Spare Parts Program												
Volume Sewer Customer (VSC) Ordinance Program												
Enact Amendment within 180 days of Approvals												
Plan of Compliance Submitted to Miami-Dade by Each VSC												
Fats, Oils & Grease (FOG) Control Program												

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	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
5.17 (3) Pump Station No. 0370 Upgrade and Installation of FM												
Pre-Design - PS#0370 Upgrade and FM Installation												
5.17 (3.1) Pump Station 0370 FM Replacement												
Pre-Design - PS#0370 FM Replacement												
5.17 (4) Pump Station 0403 Upgrade												
Pre-Design - PS#0403 Upgrade												
5.19 SCADARTU Upgrades												
Construction - PS SCADARTU Upgrades												
6. Supplemental Environmental Project												
Engineering Design - SEP												
6.0 Supplemental Environmental Project (SEP)												
Basis of Design Report (BODR) - SEP												
BODR Review Period - SEP												
Negotiate Scope & Fee for Balance of Design												
30% Design Submittal - SEP												
30% Design Review - SEP												
60% Design Submittal - SEP												
6.1 SEP (Early Phase Work)												
Design - Early Phase SEP												
Permitting - Early Phase SEP												
Procurement - Contractor Bid & Award - Early Phase SEP												
Construction - Early Phase SEP												
7. Capacity, Management, Operations & Maint. (CMOM) Program												
Pump Station Remote Monitoring												
Implementation of Pump Station Remote Monitoring												
WCTS Model												
Update WCTS Model												
Spare Parts Program												
Spare Parts Program												
Volume Sewer Customer (VSC) Ordinance Program												
Enact Amendment within 180 days of Approvals												
Plan of Compliance Submitted to Miami-Dade by Each VSC												
Fats, Oils & Grease (FOG) Control Program												

**MIAMI-DADE WATER & SEWER DEPARTMENT
CONSENT DECREE PROGRAM SCHEDULE
SIX MONTH SCHEDULE**

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Date	Revision	Chc...	Appro...
14-Jul-14	Revision 0		
22-Aug-14	July 2014 Update		
13-Jan-15	December 2014 Update		
14-Jul-15	June 2015 Update		


Activity Name	Six Month Schedule Layout											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
EPA/FDEP Review/Approval - Revised FOG Control Program												
Deliverable Placed in the PDR - Revised FOG Control Program												
Enact Amendment within 180 days of Approvals												
Sewer Overflow Response Plan (SORP)												
SORP submittal to EPA/FDEP												
Compliance Submittal Milestone (CD Compliance Date 7/06/15) - SOF												
EPA/FDEP Review/Approval - SORP												
Deliverable Placed in the PDR - SORP												
Enact Amendment within 180 days of Approvals												
Information Management System (IMS) Program												
Submit IMS Program to EPA/FDEP												
Implementation of Graphic Information System (GIS) of Entire WCTS												
Compliance Submittal Milestone (CD Compliance Date 12/07/15) - IM												
EPA/FDEP Review/Approval - IMS Program												
Deliverable Placed in the PDR - IMS Program												
Sewer System Asset Management Program												
Asset Management Plan to EPA/FDEP												
Compliance Submittal Milestone (CD Compliance Date 10/06/15) - SS												
EPA/FDEP Review/Approval - SS Asset Management Plan												
Deliverable Placed in the PDR - SS Asset Management Plan												
Enact Amendment within 180 days of Approvals												
Gravity Sewer System Operations & Maintenance Program												
EPA/FDEP Review/Approval - GSS O&M Program												
Enact Amendment within 180 days of Approvals												
Compliance Subtask Complete - GSS O&M Program												
Pump Station Operations & Preventative Maint. Program												
EPA/FDEP Review/Approval - Pump Station O&M Program												
Enact Amendment within 180 days of Approvals												
Compliance Subtask Complete - Pump Station O&M Program												
Force Main Operation, Preventative Maint. & Assessment/Reha												
FM Oper. Prev. Maint. & Assessment/Rehab Program to EPA/FDEP												
Compliance Submittal Milestone (CD Compliance Date 8/06/15) - Ope												

MIAMI-DADE WATER & SEWER DEPARTMENT

CONSENT DECREE PROGRAM SCHEDULE

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Activity Name	Six Month Schedule Layout											
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Deliverable Placed in the PDR - FM Oper. Prev. Maint. & Assessment												
EPA/FDEP Review/Approval - FM Oper. Prev. Maint. & Assessment/R												
Enact Amendment within 180 days of Approvals												
Force Main Criticality Assessment Prioritization Report												
Force Main Criticality Assessment & Prioritization Report												
Force Main Rehabilitation/Replacement Program												
Force Main Rehabilitation/Replacement Program to EPA/FDEP												
Compliance Submittal Milestone (CD Compliance Date 12/7/15) - Con												
EPA/FDEP Review/Approval - FM Rehab/Replacement Report												
Deliverable Placed in the PDR - FM Rehab/Replacement Report												
WWTP Operations and Maintenance Program												
EPA/FDEP Review/Approval - WWTP O&M Program												
Enact Amendment within 180 days of Approvals												
Financial Analysis Program												
EPA/FDEP Review/Approval - Financial Analysis Program												
Enact Amendment within 180 days of Approvals												
Compliance Subtask Complete - Financial Analysis Program												

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14-Jul-14	Revision 0		
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