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VIA ELECTRONIC CORRESPONDENCE

January 31, 2019

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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 – 2018
Semi-Annual Report No. 2**

Dear Sir/Madam:

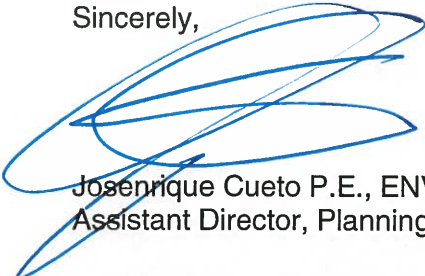
In accordance with the provisions of Paragraph 33 of the above referenced Consent Decree, on behalf of Miami-Dade County, the Water and Sewer Department (WASD) submits to both the United States Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) the 2018 Semi-Annual Report No. 2. The report includes the progress made in implementing the requirements of the aforementioned Consent Decree during the period of time from July 1, 2018 through December 31, 2018. The report also includes the anticipated work to be completed over the next two calendar quarters through June 30, 2019.

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) 552-8120.

Sincerely,



Jos Enrique Cueto P.E., ENV SP, LEED® Green Associate
Assistant Director, Planning and Regulatory Compliance

Attachment: 2018 Semi-Annual Report No. 2

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2018 Semi-Annual Report No. 2 (Ninth Semi-Annual Report)

July 1, 2018 through December 31, 2018

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



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Acronyms and Abbreviations

AASIS	Active As-built Supplemental Information Systems
AC	Asbestos Cement
BODR	Basis of Design Report
CD	Consent Decree
CDWWTP	Central District Wastewater Treatment Plant
CIP	Capital Improvement Project
CIPP	Cured in Place Pipe
CMOM	Capacity, Management, Operations and Maintenance
County	Miami-Dade County
DOJ	Department of Justice
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FM	Force Main
FMOPMAR P	Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program
FM R/R P	Force Main Rehabilitation/Replacement Program
FOG	Fats, Oils and Grease
FSE	Food Service Establishments
GDO	Grease Discharge Operations
GIS	Geographic Information System
GPD	Gallons per Day
GPM	Gallons per Minute

Acronyms and Abbreviations (continued)

GSS	Gravity Sewer System
I/I	Inflow/Infiltration
IMS	Information Management System
LF	Linear Foot
LWT	Liquid Waste Transporters
MGD	Million Gallons per Day
N/A	Not Applicable
NDWWTP	North District Waste Water Treatment Plant
NPDES	National Pollutant Discharge Elimination System
OOL	Ocean Outfall Legislation
PDR	Public Document Repository
PS	Pump Station
PSOPMP	Pump Station Operations and Preventative Maintenance Program
R & R	Renewal and Replacement
RER-DERM	Department of Regulatory and Economic Resources-Division of Environmental Resources Management
RTU	Remote Telemetry Unit
SCADA	Supervisory Control and Data Acquisition
SDWWTP	South District Waste Water Treatment Plant
SEP	Supplemental Environmental Project
SORP	Sewer Overflow Response Plan
SSAMP	Sewer System Asset Management Program
SSO	Sanitary Sewer Overflow
VFD	Variable Frequency Drive

Acronyms and Abbreviations (continued)

VSC	Volume Sewer Customer
WASD	Miami-Dade Water and Sewer Department
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 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 (July 1, 2018 through December 31, 2018), and also provides projections for significant projects and activities anticipated to be completed in the next two calendar quarters (January 1, 2019 through June 30, 2019).

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 (WASD) that are required to be tracked and reported by Subparagraph 19(j)(v) of the CD and the Policy Resolutions.

All CD requirements were met for the previous two calendar quarters and is in full compliance with the CD. The County continues to be fully engaged with the successful implementation and compliance of the CD. First, with the continued development and implementation of the nine new CMOM Program (CD Section VI, Paragraph 19) all of which have been approved as of this reporting period. Second, with the execution of the eighty-one (81) capital improvement projects included in Appendix D which have an approximate total cost of \$1.93 billion, and the Supplemental Environmental Project (SEP) included in Appendix E. As of this reporting period, twenty-seven (27) projects with a total cost of \$345 million have been completed and more than forty-five (45) projects with an approximate total cost of \$1.28 billion are currently in the procurement and construction phases.

The projects, activities and milestones achieved, and the deliverables submitted to EPA/FDEP 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 Sanitary Sewer Overflow (SSO) Identification and Reporting	Section VI, para. 19(b)	Within 24 hours and 5 days of known occurrence	Ongoing	Yes
Submit Force Main Criticality Assessment and Prioritization Report	Section VI, para. 19(g)(ii)	7/20/2018	7/17/2018	Yes
Post Force Main Criticality Assessment and Prioritization Report in PDR	Section V, para. 9	1 business day after submittal	7/17/2018	Yes
Submit 2018 Quarterly Report No. 2	Section IX, para. 32	7/30/2018	7/26/2018	Yes
Post 2018 Quarterly Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	7/26/2018	Yes
Submit 2018 Semi-Annual Report No. 1	Section IX, para. 33	7/30/2018	7/30/2018	Yes
Post 2018 Semi-Annual Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	7/30/2018	Yes
Submit CMOM Programs Consolidated Schedule of Implementation Activities	Section VI, para. 19	8/6/2018	8/6/2018	Yes
Post CMOM Programs Consolidated Schedule of Implementation Activities in PDR	Section V, para. 9	1 business day after submittal	8/6/2018	Yes

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Completion or Submittal Date	CD Compliant (Yes/No)
Submit Wastewater Treatment Plant Operations and Maintenance Program Final	Section XI, para. 19(h)	8/6/2018	8/6/2018	Yes
Post Wastewater Treatment Plant Operations and Maintenance Program Final in PDR	Section V, para. 9	1 business day after submittal	8/7/2018	Yes
Submit 2018 Quarterly Report No. 3	Section IX, para. 32	10/30/2018	10/30/2018	Yes
Post 2018 Quarterly Report No. 3 in PDR	Section IX, para. 36	1 business day after submittal	10/30/2018	Yes
Submit Force Majeure Notification Letter for CD CIP 5.2 – PS 0691	Section XI, para. 52 & Section XVII, para. 77	11/30/2018	11/29/2018	Yes
Post Force Majeure Notification Letter for CD CIP 5.2 – PS 0691 in PDR	Section V, para. 9	1 business day after submittal	11/29/2018	Yes
Completion of CD CIP 2.17 Chlorination Facilities	Section VI, para. 19(i)	10/15/2018	7/27/2018	Yes
Completion of CD CIP 4.5 South Dade 54-inch PCCP FM Rehabilitation	Section VI, para. 19(i)	12/23/2018	9/14/2018	Yes
Completion of the Supplemental Environmental Project	Section VII and Appendix E	11/18/2019	12/26/2018	Yes

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Anticipated Completion or Submittal Date
Submit 2018 Quarterly Report No. 4	Section IX, para. 32	1/31/2019	1/31/2019
Post 2018 Quarterly Report No. 4 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2018 Semi-Annual Report No. 2	Section IX, para. 33	1/31/2019	1/31/2019
Post 2018 Semi-Annual Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2018 Annual Report	Section IX, para. 34	3/1/2019	3/1/2019

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
Post 2018 Annual Report in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2019 Quarterly Report No. 1	Section IX, para. 32	5/1/2019	5/1/2019
Post 2019 Quarterly Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
CD CIP 1.9 FOG Removal Facility	Section VI, para. 19(i)	5/24/2019	5/24/2019
CD CIP 2.3 Headworks Plant 1	Section VI, para. 19(i)	3/6/2019	3/6/2019
CD CIP 2.22 Pump Station 2	Section VI, para. 19(i)	5/25/2019	5/25/2019
CD CIP 5.2 Upgrade of PS No. 0691	Section VI, para. 19(i)	1/27/2019	1/27/2019
CD CIP 5.4 Replacement of Switchgear PS No. 0414	Section VI, para. 19(i)	6/15/2019	6/15/2019
CD CIP 5.6 Replacement of Switchgear PS No. 0416	Section VI, para. 19(i)	6/13/2019	6/13/2019
CD CIP 5.11 Installation of 60-inch FM from Kendall Dr. to PS No. 0536	Section VI, para. 19(i)	5/18/2019	5/18/2019
CD CIP 5.12 Replacement of Switchgear PS No. 0187	Section VI, para. 19(i)	3/26/2019	3/26/2019

Table 1-3 is an “Issues Log” which includes issues that have been identified by WASD, Department of Regulatory and Economic Resources-Division of Environmental Resources Management (“RER-DERM”), EPA or FDEP with regard to the CD and any clarifications, decisions or resolutions of these issues.

Item	Date	Description	Resolution/Clarification/Decision
1	3/28/17	EPA and FDEP requested that WASD submits a more detailed Capacity, Management, Operations and Maintenance (CMOM) Consolidated Implementation Schedule than the one submitted on March 31, 2016.	On March 28, 2017, WASD, EPA and DOJ held a teleconference. At that teleconference, it was agreed that an updated CMOM consolidated schedule will be submitted 30 days after all CMOM Programs have been approved. The final CMOM Program EPA/FDEP approval letter was received by the County on June 7, 2018 for the WWTP Hauled Waste Guidance Manual. The approval letter states that the County has 60-days to submit the schedule. Thus, the CMOM Consolidated Implementation Schedule submittal was submitted to EPA/FDEP by August 6, 2018.
2	4/20/17	Section VI Paragraph 19.(c).(x).(G) of the CD mandates, “Determination via suitable as-built drawings, or GPS or traditional surveying field measurements, elevations of all manhole rim elevations and sewer inverts at connections to manholes and Pump Stations and their inclusion into GIS.”	At the April 20, 2017 EPA/FDEP/WASD CD Program Update Meeting, WASD expressed that as of the end of March 2017, WASD has completed 92% of the collection of the elevations of manhole rim elevations and sewer inverts at connections to manholes and Pump Stations. Approximately 7% of the information, however, could not be obtained for reasons ranging from encroachments to surcharged manhole or manhole located on private property. WASD proposed that the data not obtained in the field, be collected as an implementation activity to be added in the CMOM Consolidated Implementation Schedule. EPA/FDEP agreed to the proposal. This activity was included in the CMOM Consolidated Implementation Schedule submittal due on August 6, 2018.

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
3	7/20/17	At the July 20, 2017 EPA/FDEP/WASD CD Program Update Meeting, WASD proposed a scope modification for CIP 5.9 Replacement of Plumbing and Electrical Equipment at PS #0301.	The scope modification request for CD CIP 5.09, to include the construction of a new Submersible PS, exceeds the CD description and as such will require a revision to the CD Appendix-D CIP 5.09 schedule. After the presentation, EPA/FDEP requested a formal request for the proposed change. On July 28, 2017, the County sent EPA/FDEP an official scope modification request for CD CIP 5.09 Replacement of Plumbing and Electrical Equipment. This item is pending final decision.
4	2/13/18	<p>On February 13, 2018, the County advised EPA, FDEP and DOJ that the Public Document Repository (PDR) site would be migrated to a Microsoft cloud-based system.</p> <p>WASD communicated to EPA and FDEP that their Public Information Office (PIO) will continue to provide access to deliverables digitally. Upon request for hard copies, the PIO will provide in accordance with public records law.</p> <p>The migration is still in progress and the new PDR site will be operational before 6/30/2019.</p>	On February 14, 2018, EPA, DOJ and FDEP did not object to the proposed migration. Once effective, this migration of PDR site will be included in the next Status Report to the Court.

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
5	4/19/18	<p>At the April 2018 CD Program Update Meeting, WASD mentioned that there will be an amendment to the County Ordinance regarding the time a business must connect to a public lateral. In line with federal laws, it will be modified to reflect one year. There is reference in Appendix E Supplemental Environmental Project Plan of the CD, however, indicating a different timeframe, i.e. "Pursuant to existing regulations, businesses will have ninety (90) days to abandon their septic systems and connect to the public laterals."</p>	<p>EPA stated there may be a need to change that language in the CD and that the matter would be discussed with the Department of Justice (DOJ). This item is pending final decision.</p>
6	4/19/18	<p>At the January 24, 2017 monthly meeting, WASD mentioned that the Ocean Outfall Legislation Program is in the process of developing the Conceptual Memorandum. After the development of that Report the change of scope for CD CIP 2.14 CDWWTP Digesters Plant 1 will be submitted to EPA/FDEPA. At the April 2018 CD Program Update Meeting, WASD reported that the complete rehabilitation of Plant 2 Clusters 1, 2, and 3 under CD 2.15 will provide full digestion treatment capacity required for CDWWTP and no improvement for CD 2.14 is anticipated for both the CD and Ocean Outfall Legislation Program (OOL). EPA/FDEP requested that WASD submits a Request for Material Change for CD CIP 2.14.</p>	<p>WASD submitted a Request for Material Change for CD CIP 2.14 to EPA/FDEP on May 21, 2018. The County requested that CD CIP 2.14 be cancelled and deleted from Appendix D-2 of the CD. This item is pending final decision.</p>

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
7	4/19/18	At the April 2018 CD Program Update Meeting, WASD mentioned that there has been no decision made by EPA/FDEP on the Notification of Completion Letter for CD CIP 2.24 CD WWTP Gas Monitoring sent on September 29, 2017. The letter stated that the Force Majeure Notification Letter sent to EPA/FDEP on September 20, 2017 anticipated up to 14 days delay on projects in construction. Moreover, if not for the Force Majeure event, this project would have been completed by the compliance date.	At the December 2018 CD Program Update Meeting, EPA stated that the determination whether to assess penalties for completed CD CIP 2.24 CD WWTP Gas Monitoring will be included in the upcoming EPA Status Report to the Court. This item is pending final decision.

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 Reports, 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 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 (2) 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), (j) 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. The County will install at least seven thousand six hundred sixty (7,660) linear feet of new gravity sewer mains within an industrial area which currently has no access to sanitary sewers and relies on septic systems.

During the reporting period, the County held a SEP Coordination Open-House Meeting to provide property-owners connection process information and contact resources. The Contractor successfully completed the installation, testing, and connections for approximately 8,022 linear foot (LF) of 12-inch, 10-inch and 8-inch PVC gravity sewer main piping, including all corresponding laterals and manholes. The Contractor also successfully completed the installation, testing, and connections for approximately 678 LF of 12-inch and 10-inch potable

water main. The Contractor completed the project certification processes in accordance with all applicable permitting agencies and governing bodies. The construction of the SEP reached completion on December 26, 2018, ahead of the CD Compliance deadline of November 18, 2019. The County through RER-DERM, initiated the development of the Notice of Required Connection (NORC) letters to formally inform the property-owners the system is completed and ready for connection.

In the next two calendar quarters, the Contractor will continue the restoration and project close out process. The SEP Completion Report will be initiated and is on schedule to meet the CD Compliance deadline of December 18, 2019. The NORC letters will be issued to the property-owners included in the SEP area.

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 enacted a law requiring all wastewater facilities in southeast Florida utilizing ocean outfalls for disposal of treated wastewater to reduce nutrient load discharges, cease the normal use of outfalls, and expand reuse systems, all by the end of 2025.

The EPA, FDEP, and Miami-Dade County acknowledged that the County's implementation of the OOL may impact the scope of scheduling certain capital improvement projects identified in the 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 Consent Decree as set forth in Section XX (Modification). The following progress was completed during the reporting period.

- The Basis of Design Reports (3) for the capacity expansion at the South District Wastewater Treatment Plant (WWTP) were delivered to the Florida Department of Environmental Protection (FDEP) on July 26, in compliance with the permit condition. The designs are proceeding (65 to 95 percent complete).
- The Central District WWTP design phase has started and a notice to proceed to two of the three design firms was issued in January 2019. The third design firm is expected to be given NTP in March 2019. Changes required to supporting facilities have delayed the completion of the industrial well pump station to April 2019.
- The conceptual design of the North District WWTP is underway (about 40 percent complete).
- WASD has received the FDEP Underground Injection Control permits for the new municipal injection wells at South and Central District WWTPs.

Appendix A Work Progress Tables

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(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 was undertaken to ensure that adequate transmission and treatment capacity exists within the County. Pursuant to Appendix A of the CD; monthly capacity certification reports are prepared by RER-DERM and kept on file by WASD. Upon request, these reports will be provided to EPA/FDEP.	1. Continued with the monitoring and tracking of the monthly Elapsed Time (ET) submittals by each Volume Sewer Customer Utility.	1. Continue monitoring and tracking of the monthly Elapsed Time (ET) submittals by each Volume Sewer Customer Utility.
			2. Placed under Initial Moratorium (IM) Pump Station basins that exceeded the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).	2. Continue placing under Initial Moratorium (IM) Pump Station basins that exceed the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).
			3. Placed under Incomplete Moratorium (IN) Pump Station basins that that failed to submit ET readings or not submitted by the 14th of the following month, as required by the Miami-Dade County Code.	3. Continue placing under Incomplete Moratorium (IN) Pump Station basins that that fail to submit ET readings or do not submit them by the 14th of the following month, as required by the Miami-Dade County Code
			4. Continued to use the WEB application for the monthly submittal and tracking of the ET readings to automatically place pump station basins under Incomplete Moratorium (IN) every time a Triplicate Reading was detected.	4. Continue to use the WEB application for the monthly submittal and tracking of the ET readings to automatically place pump station basins under Incomplete Moratorium (IN) every time a Triplicate Reading is detected.
			5. Continued generating the monthly NAPOT Status & Sewer Allocation reports for all Utilities and Building Officials. All Utilities and Building Officials were notified how to access the NAPOT Status and were provided a copy of the Allocation report.	5. Continue generating the monthly NAPOT Status & Sewer Allocation reports for all Utilities and Building Officials. All Utilities and Building Officials will be notified how to access the NAPOT Status and required to submit the completed Allocation report.
			6. Sewer Allocations were de-allocated manually for municipalities according to their monthly reports as submitted to RER-DERM.	6. Continue manually de-Allocations for all municipalities according to their completed monthly reports submitted to RER-DERM.
			7. Held two (2) Quarterly Utility Round Table (URT) Meetings with all Utilities and/or Utility Representatives to discuss/review compliance issues.	7. Will hold two (2) Quarterly Utility Round Table (URT) Meetings with all Utilities and/or Utility Representatives to discuss/review compliance issues.
			8. Continued to use the PS system/database to track PS basins, new or upgraded with 26 HP or larger, required to submit ET readings for ALL-PUMPS ON and Midnight-to 5 am hours.	8. Continue to use/update the PS system/database to track PS basins, new or upgraded with 26 HP or larger, required to submit ET readings for ALL-PUMPS ON and Midnight-to 5 am hours.

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(a)	Adequate Pumping, Transmission and Treatment Capacity Program (continued)	The Adequate Pumping, Transmission and Treatment Capacity Program is being implemented in accordance with Paragraph 18(a) of the CD. This program was undertaken to ensure that adequate transmission and treatment capacity exists within the County. Pursuant to Appendix A of the CD; monthly capacity certification reports are prepared by RER-DERM and kept on file by WASD. Upon request, these reports will be provided to EPA/FDEP.	9. Continued to review Sanitary Sewer System Evaluations or Amendments as submitted by the utilities. PS moratoriums were reverted as the utilities demonstrated compliance with the SSES, Code requirement of 5,000 GPDIM.	9. Continue to review Sanitary Sewer System Evaluations or Amendments when submitted by the utilities. PS moratoriums will be reverted as the utilities demonstrate compliance with the SSES, Code requirement of 5,000 GPDIM.
			10. Completed the Water & Sewer As-Built / Atlas Guidelines for submittals by each Utility to assist Plan Review staff in the issuance of Sewer Capacity Allocation Letters.	10. Will review the GIS Water & Sewer As-Built / Atlases submitted by each Utility in January-2019.
			11. Updated Moratorium status of PS basins for which the utility completed and certified the Corrective Action Plan(s) (CAP) to bring basin Nominal Average Pump Operating Time (NAPOT) below the 10 hours.	11. Continue Updating Moratorium status of PS basins for which the utilities completed and certified the Corrective Action Plan(s) (CAP) to bring basin Nominal Average Pump Operating Time (NAPOT) below the 10 hours.
			12. A final Water & Sewer As-Built / Atlas Guidelines was presented and provided to all utilities at the URT Meeting on August 28, 2018, for the Atlas/As-Built Update submittal due on January 6th, 2019.	12. Coordinate with IT Department to create a WEB Application to allow Building Officials to report the monthly De-Allocation report.
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. The pump station monitoring system shall continuously monitor, report and transmit data.	Work on the program has been ongoing.	Work on the program is ongoing and will continue beyond June 30, 2019.

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>The CD PMCM team performed hydraulic modeling evaluations to assess the effect of modifications to the WASD sewer collection system as a result of CD projects on operating conditions of the WASD WCTS. Evaluations were completed for the following CD projects: 4.9 (60-62), 4.9 (70), 4.9 (65) and 4.9 (72).</p> <p>These projects consist on the replacement of asbestos cement pipe (ACP) segments across the system. The projects evaluated affect pipe segments that convey manifolded flows from several lift stations which resulted in the requirement of comprehensive assessment of regional areas of the system. The evaluations were documented in technical memorandums that were submitted to DERM/RER as part of the permitting process.</p> <p>In addition to the efforts associated with CD Project validation and permitting, the CD PMCM team continued the update of WCTS Hydraulic Model network geometry in order to match the current conditions of the system, these updates included addressing discrepancies identified in the model network through evaluation of as-built drawings, equipment O&M information and GIS data. This effort constitutes the compliance with Section VI, Paragraph (18).(c).(iv) of the Consent Decree.</p>	<p>Continue support to design and construction teams through hydraulic modeling evaluations to assess the effect of modifications to the WASD sewer collection system as a result of CD projects on operating conditions of the WASD WCTS.</p> <p>Continue the update of WCTS Hydraulic Model network geometry in order to match the current conditions of the system, these updates include addressing discrepancies identified in the model network through evaluation of as-built drawings, equipment O&M information and GIS data. This effort constitutes the compliance with Section VI, Paragraph (18).(c).(iv) of the Consent Decree.</p> <p>Continued efforts to update hydraulic model with information available for improvement projects associated with Consent Decree, Ocean Outfall Legislation, WASD Master Plan, Pump Station Improvement Program as well as New Development Projects in an effort to maintain the most up to date projection scenarios for years 2020, 2025 and 2035 in the WASD hydraulic model.</p> <p>Continue updates associated with modifications to Private Pump Stations (PPS) into the WCTS Hydraulic Model according to Paragraph 18(c)(ii) of the Consent Decree.</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	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 (Continued)	<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>Continued efforts to update hydraulic model with information available for improvement projects associated with Consent Decree, Ocean Outfall Legislation, WASD Master Plan, Pump Station Improvement Program as well as New Development Projects in an effort to maintain the most up to date projection scenarios for years 2020, 2025 and 2035 in the WASD hydraulic model.</p> <p>Completed incorporation of Private Pump Stations (PPS) into the WCTS Hydraulic Model according to Paragraph 18(c)(ii) of the Consent Decree. This effort also included the adjustment of model inflows for public pump stations to accommodate the additional flows associated with PPS. The update of PPS is a process that continues in to the future to accommodate new developments and modifications to the system.</p> <p>The WASD hydraulic model calibration was completed during the last quarter of 2018. The calibration process considered the evaluation of three (3) specific weather events (two events for calibration and one for validation) that are representative of the range of operating conditions for the WASD WCTS system.</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	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 (Continued)	<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>One wet weather event (WWE1), one wet season dry weather event (WWE2) and one dry weather event (DWE) were selected within the 2-year rainfall period (2013-2015).</p> <p>The calibration process consisted on performing several iterations of hydraulic model runs and comparing simulated model values for pressures and flows against observed data obtained from the WASD SCADA system. After each model run iteration, a detailed evaluation of the results comparison was conducted which served as the basis to make adjustment to the model network configuration, facilities operation parameters and hydraulic variables, until an acceptable match was obtained.</p> <p>The completion of model calibration was dictated by compliance with calibration criteria previously defined and documented in hydraulic model calibration TM. The criteria implemented outlines the standards that are applied in the calibration of the different networks elements and hydraulic variables of the WASD Sewer Hydraulic Model.</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	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 (Continued)	<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>The document was based on Wastewater Planning Users Group Code of Practice for the Hydraulic Modeling of Sewer Systems v 3.001 (WaPUG, 2002) and the general guidelines from United States Environmental Protection Agency (USEPA, 1999) in addition to previous experience by technical leads from the CD PMCM Team on hydraulic model calibration for wastewater collection systems</p> <p>The modifications made to the calibration model networks were incorporated into the latest effective model version which is shared with WASD Planning Division and other consultants as required. The Effective Model version represents existing conditions of the system. This version of the model is validated recurrently with observed flow data for distribution at the wastewater treatment plants. In addition, based on findings from calibration and the latest effective model, the CD PMCM updated the model networks corresponding to planning horizons (2020, 2025 and 2035) previously developed by WASD Planning Division.</p> <p>A detailed report was developed which documents the calibration process, the latest calibration and validation results obtained as well as main challenges of the overall WASD model calibration process as well as recommendations and steps to follow for the next 5-year hydraulic model calibration cycle. This report can be made available upon request as dictated in Section VI, Paragraph (18).(c).(iv) of the Consent Decree.</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	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
18(d)	Spare Parts Program	The Spare Parts Program is being implemented in accordance with Paragraph 18(d) of the CD. This program is a continuing inventory management program for spare parts for the WCTS and WWTPs.	Work on the program has been ongoing.	The existing program will be enhanced as the new CMOM Programs are implemented. Work on the program is ongoing and will continue beyond December 31, 2018.
18(e)	Volume Sewer Customer Ordinance Program	The VSC Program and the VSC Ordinance were amended in accordance with Paragraph 18(e) of the CD. 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. Revisions are to be made to the VSC Program and the VSC Ordinance and submitted to EPA/FDEP for approval prior to implementation.	<p>1. Monitored and tracked the monthly submittal of the Elapsed Time (ET) readings by each Volume Sewer Customer utility.</p> <p>2. Placed under Moratorium Pump Station (PS) basins under the jurisdiction of the Volume Sewer Customer utilities that exceeded the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).</p> <p>3. Placed under Incomplete Moratorium (IN) Pump Station basins under the jurisdiction of the Volume Customer utilities that failed to submit ET readings, or not submitted, by the 14th of the following month, as required by the Miami-Dade County Code.</p> <p>4. Updated Moratorium status of PS basins under the jurisdiction of the Volume Sewer Customer utilities for which the utility completed and certified the Corrective Action Plan(s) (CAP) to bring basin Nominal Average Pump Operating Time (NAPOT) below the 10 hours.</p> <p>5. Continued generating the monthly Certification of Nominal Average Pump Operating Time NAPOT Status for each Volume Sewer Customer Utility.</p> <p>6. Continued to use the PS system/database to track PS basin Moratoriums related to SSOs.</p>	<p>1. Continue Monitoring and tracking of the monthly submittal of the Elapsed Time (ET) readings by each Volume Sewer Customer utility.</p> <p>2. Continue placing under Moratorium Pump Station (PS) basins under the jurisdiction of the Volume Sewer Customer utilities that exceed the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT).</p> <p>3. Continue placing under Incomplete Moratorium (IN) Pump Station basins under the jurisdiction of the Volume Customer utilities that fail to submit ET readings, or do not submit, by the 14th of the following month, as required by the Miami-Dade County Code.</p> <p>4. Continue updating Moratorium status of PS basins under the jurisdiction of the Volume Sewer Customer utilities for which the utilities completed and certified the Corrective Action Plan(s) (CAP) to bring basin's Nominal Average Pump Operating Time (NAPOT) below the 10 hours.</p> <p>5. Continue generating the monthly Certification of Nominal Average Pump Operating Time NAPOT Status for each Volume Sewer Customer Utility.</p> <p>6. Continue to use the PS system/database to track PS basin Moratoriums related to SSOs.</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	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
18(e)	Volume Sewer Customer Ordinance Program (continued)	The VSC Program and the VSC Ordinance were amended in accordance with Paragraph 18(e) of the CD. 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. Revisions are to be made to the VSC Program and the VSC Ordinance and submitted to EPA/FDEP for approval prior to implementation.	7. Continued to review the Volume Sewer Customer's Sanitary Sewer System Evaluations or Amendments submitted. PS moratoriums were reverted as the utilities demonstrated compliance with the SSES, Code requirement of 5,000 GPDIM.	7. Continue to review the Volume Sewer Customer's Sanitary Sewer System Evaluations or Amendments when submitted. PS moratoriums will be reverted if the utilities demonstrate compliance with the 5,000 GPDIM SSES Code requirement.
			8. Completed enforcement action against City of Opa-Locka for repeat SSOs during this period and established an inspection coordination effort to prevent new SSOs.	8. Continue enforcement action against the utility that experienced repeat SSOs during previous period and continue with inspection coordination effort to prevent new SSOs.
			9. Drafted a Consent Agreement (CA) to the City of Opa-Locka for repeat SSOs during this period. CA outlined actions to prevent SSOs and to complete needed rehabilitation to bring the sanitary sewer collection system into full compliance.	9. Will follow up on the Approval of the CA by City Commission and will follow up on the specific deadlines to rehabilitate the system in as needed to bring the system into full compliance.
			10. All Volume Sewer Customer utilities and/or representatives were reminded about Sanitary Sewer Overflow (SSO) requirements in the last quarterly Utility Round Table (URT-21th) meeting on December 7, 2018.	10. All Volume Sewer Customer utilities and/or representatives will be reminded about Sanitary Sewer Overflow (SSO) requirements in one of the 2019 Utility Round Table meetings.

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 Fats, Oils and Grease (FOG) Control Program is being implemented in accordance with Paragraph 19(a) of the CD. DERM is responsible for implementing and managing the FOG Control Program which regulates industrial and commercial sources of FOG. The Program involved the review, evaluation and revision of the County's previous FOG Control Program. An updated FOG Control Program and accompanying FOG Ordinance were approved by EPA and FDEP on September 7, 2017 and enacted by The Board of County Commissioners on February 21, 2018. The FOG Ordinance became effective March 5, 2018	1. Provided updated in-house training to FOG Control Technicians and Inspectors.	1. Provide updated in-house training to FOG Control Technicians and Inspectors.
			2. Updated and distributed "Did You Know" flyers. Flyers were distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters.	2. Update and distribute "Did You Know" flyers. Flyers will be distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters.
			3. Continued FOG Outreach, including workshops (e.g., FOG Round Table and Utility Round Table meetings).	3. Continue FOG Outreach, including West Coast Inspectors Workshop, and FOG and Utility Round Table meetings.
			4. Continued to receive monthly hauled waste disposal data from MD-WASD and Pompano/Broward using the eManifest system.	4. Continue to receive monthly hauled waste disposal data from MD- WASD and Pompano/Broward. Assign FOG Inspectors to run eManifest Reports and schedule inspections based on findings.
			5. Updated FSE FOG Operating Permit (GDO) conditions, including mandatory eManifest reporting.	5. Review FSE FOG Operating Permit (GDOs) conditions and update accordingly, including training requirements.
			6. Continued enforcement (and compliance assistance) with NGTs Food Service Establishments (FSE).	6. Continue enforcement (and compliance assistance) with NGTs Food Service Establishments (FSE). Goal is to achieve 100% compliance by June 2019.
			7. Updated the Liquid Waste Transporter (LWT) permits.	7. Review LWT Permit conditions and update accordingly, including training requirements.
			8. Monitored "NO COMMINGLING of FOG" (implemented April 1, 2017) at the South District Wastewater Treatment Plant. Inspections include 1 day per week and 1 weekend per month.	8. Continue monitoring "NO COMMINGLING of FOG" and take enforcement actions to correct violations, as applicable. Review 1 day per week and 1 weekend per month inspection routine and adjust accordingly.
			9. Continued to receive eManifest from LWTs. LWTs not submitting eManifest were advised that their operating permit would not be renewed.	9. Continue compliance assistance and enforcement for LWTs not using eManifest and/or operating without a valid operating permit.

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 (Continued)	The Fats, Oils and Grease (FOG) Control Program is being implemented in accordance with Paragraph 19(a) of the CD. DERM is responsible for implementing and managing the FOG Control Program which regulates industrial and commercial sources of FOG. The Program involved the review, evaluation and revision of the County's previous FOG Control Program. An updated FOG Control Program and accompanying FOG Ordinance were approved by EPA and FDEP on September 7, 2017 and enacted by The Board of County Commissioners on February 21, 2018. The FOG Ordinance became effective March 5, 2018	10. Continued to perform and track FOG Construction Inspections, and to document inspection results to improve FOG Plan Review procedures.	10. Continue to perform and track FOG Construction Inspections. Document inspection results to improve FOG Plan Review procedures. Work on developing an on-line FOG Construction Inspection portal.
			11. Continued to track FOG Hot Spots and identify sources(s) and root cause(s). Continued to collect monthly accelerated FOG maintenance reports from utilities.	11. Continue to track FOG Hot Spots and identify sources(s) and root cause(s). Take enforcement as required to remedy FOG Hot Spots.
			12. Continued to work with equipment manufactures to get FOG Control Devices approved for FOG2.0.	12. Continue to work with equipment manufactures to get FOG Control Devices approved for FOG2.0.
			13. Implemented FOG related tasks associated with LW-ST2.0 Liquid Waste Transportation & Disposal Guidance Manual, including reviewing random/flagged/other waste sampling reports and cross-referencing eManifest records to identify potential sources of non-complying waste. Also, reviewed monthly FOG facility effluent sampling data for parameter trends.	13. Continue to random/flagged/other waste sampling reports and cross-referencing eManifest records to identify potential sources of non-complying waste, according with the LW-ST2.0 Liquid Waste Transportation & Disposal Guidance Manual. Also, review monthly FOG facility effluent sampling data for parameter trends. Also includes updating training requirements for disposal facilities.
			14. Continued to track/record Key Performance Indicators and Performance Measures to evaluate and improve the FOG Control Program.	14. Continue to track/record Key Performance Indicators and Performance Measures to evaluate and improve the FOG Control Program, and prepare the 2nd FOG Control Program Annual Review Report due to EPA/FDEP on June 30, 2019.
			15. Developed training program for 2019 GDO permitting cycle.	15. Develop or approve training programs for 2019 permitting cycle for LWTs and Disposal Facilities.
				16. Prepare a final Public Outreach program outline and schedule in collaboration with MDC-WASD.

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(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.	Work on the program was ongoing: 1. Continued all required SSO reporting 2. Continued holding monthly SSO evaluation meetings 3. Held a Contractor Outreach Workshop, in coordination with Sunshine 811, on September 13, 2018. 3. Continued the development of Consolidated SSO Database, including the Building Backup Application.	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2019.
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.	Work on the program was ongoing: 1. Continued working on transitioning PCTS software from Proliance to e-Builder, to enhance Construction Contracts Management project close-out business practices. 2. Continued the development of CMOM dashboard for performance measure and KPI tracking.	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2019.
19(c)(x)	Geographic Information Systems Program	The GIS Program is being developed in accordance with Paragraph 19(c)(x). This Program will improve the existing map of the County's entire WCTS. The scope of work for this Program involves completing the estimated 1800 GIS backlog projects and estimated 2000 reported GIS data inconsistencies prior to June 7, 2017.	1. Manhole rim and pipe inverts and their inclusion into GIS - Completed. Updates continue as part of the GIS data maintenance process.	Updates to continue
			2. Streamlining the manual as-built to GIS process to satisfy 90 day requirement – Completed. Improvements continue as opportunities arise	The GIS integration of all projects conveyed and activated are being tracked. The metrics will be reported in the 2018 Annual Report.
			3. GIS to Hydraulic Model Integration to satisfy 90 day requirement from GIS to Model – Completed. Updates continue	The GIS Hydraulic Model integration of all projects conveyed and activated are being tracked. The metrics will be reported in the 2018 Annual Report.
			4. GIS Training Refresher Program - Ongoing	Training courses continue to be offered on a monthly basis or for specific teams as requested.
			5. Electronic As-Built Submittal - Completed	Updated with new asset classes and value list. Future enhancements, as necessary
			6. GIS to Water Model Interface - Completed. Improvements continue as opportunities arise.	Development of a system to interface between the GIS and the Miami-Dade Water computer model so that the information can be efficiently exported to the Water System computer model. Updates to continue.

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(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.	Work on the program was ongoing: WASD has brought on board a Consultant to assist them in developing a Department asset management framework.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2019.
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 will facilitate proper operation and maintenance activities associated with gravity mains in the WCTS.	Work on the program was ongoing: 1. Continued to deploy Smart Covers to "hot spots" to closely monitor and prevent SSOs, including deploying 14 new devices during this reporting period. 2. Completed repairs in compliance with the Wellfield Protection Ordinance during this reporting period.	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2019.
19(f)	Pump Station Operations and Preventative Maintenance Program	The Pump Station Operations and Preventive Maintenance Program is being developed in accordance with Paragraph 19(f) of the CD. This Program will facilitate proper operation and maintenance activities associated with the Pump Stations within the WCTS.	Work on the program was ongoing.	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2019.
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.	Work on the Program was ongoing: 1.The Force Main Criticality Assessment and Prioritization Report was completed and submitted to the EPA/FDEP on July 17, 2018.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2019.

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.	Work on the program was ongoing: 1. Continued random collection of hauled waste as a standard practice. The random sample collection practice and procedures used at the SDWWTP are in accordance with EPA's Handbook Guidance Manual for Control of Hauled Wastes EPA-833-B-98-003, Section 24-42.4 of the Miami-Dade Code, and the Hauled Waste Guidance Manual. 2. RER-DERM/WASD Coordination Meetings were held at SD WWTP on July 9, 2018 and November 26, 2018 to discuss Hauled Waste Program and any issues or concerns related to illicit hauled waste or discharges to the plant or collection system.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2019.
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.	Work on the program was ongoing. Financial Analysis Program Report, which includes the expenditures for both operating and capital from October 2017 to March 2018 can be found in Appendix C.	Work on the program will be ongoing and will continue beyond June 30, 2019.

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	The SDWWTP Headworks project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves routine repairs on existing bar screen mechanisms in headwork structure prior to aerated grit chambers. Failure of bar screen mechanism could result in the blinding of the bar screen and cause an overflow of raw sewage from the plant headworks structure towards nearby surface waters, especially during peak wet weather.	Procurement was completed. Construction continued.	Construction will continue.
1.2	Oxygen Production	The SDWWTP Oxygen Production project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace and retrofit existing air compression units.	Procurement continued.	Procurement will be completed. Construction will commence.
1.3	Oxygenation Trains	The SDWWTP Oxygen Trains project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to retrofit aeration mixers and rehabilitate and apply surface coating to the structure. This project was split into three child projects: (1) for the structural rehab of the train, (2) for the electrical building expansions and mixer upgrades (OOL) and (3) oxygenation train - SS 5/6 and SS 15/16 (OOL).	1.3(1) Procurement Train 4 Oxygenation tanks structural rehab commenced. 1.3(2) Design continued for Electrical Building Expansion and Oxygenation Trains Mixer Upgrades. 1.3(3) Design continued for oxygenation train - SS 5/6 and SS 15/16.	1.3(1) Procurement for Train 4 Oxygenation tanks structural rehab will be completed. 1.3(2) Design for Electrical Building Expansion and mixer upgrade will be completed and permitting will commence. 1.3(3) Design will be continue for oxygenation train - SS 5/6 and SS 15/16.
1.4	Chlorine Building	The SDWWTP Chlorine Building project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves replacement of motor control centers, relocation of electrical panels and roof repairs of the old chlorine building where flushing water pumps are to remain.	Design continued.	Design will be completed. Permitting will commence.
1.5	Effluent Pump Station	The SDWWTP Effluent Pump Station project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves an upgrade of the existing obsolete pump control systems, upgrade of the pumps drives and motors, and structural rehabilitation of pump station wet well, i.e. chambers 2 through 4. This project has been split into three separate child projects: (1) structural rehabilitation of the effluent pump wet wells; (2) the building improvements and equipment for the remaining pumps (1-6); (3) the electrical equipment associated with pumps 7,8 and 9.	1.5(1) Procurement of wetwells # 3 & 4 commenced. Construction of Wetwell # 1 commenced. Procurement and construction continued. 1.5(2) Design and permitting were completed. Procurement commenced. 1.5(3) Completed on Jan 23, 2016.	1.5(1) Procurement of wetwells # 3 & 4 will continue and construction of Wetwell #1 - Structural Rehab will be completed. 1.5(2) Procurement will continue.

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
1.6	Gravity Sludge Thickeners	The SDWWTP Gravity Sludge Thickeners project will be performed pursuant to Paragraph 19(i) and Appendix D. The objective of this project is to provide a combined Thickening and Dewatering facility under one common building. The existing sludge concentrators will be abandoned and a centrifuge thickening system will be utilized. This project is being performed under design-build delivery method.	Procurement continued. (Bid cancellation on May 30, 2018. Project was readvertised in November, 2018.)	Procurement will continue.
1.7	Digesters and Control Buildings	The SDWWTP Digester and Control Buildings project will be performed pursuant to Paragraph 19(i) and Appendix D. The project involves the rehabilitation or replacement of digester roofs; digester tank cleaning, structural rehabilitation and coating, sludge mixers improvement. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstable sludge that will require landfill disposal.	Procurement continued and construction commenced.	Procurement and construction will continue.
1.8	Dewatering Facility	The SDWWTP Dewatering Facility project is being performed pursuant to Paragraph 19(i) and Appendix A. The purpose of this project is to replace the existing interim dewatering building with a new permanent dewatering facility. This will improve sludge dewatering and decrease solids accumulation in the secondary treatment process and prevent effluent limit violations. This project is being performed under design-build delivery method.	Procurement continued. (Bid cancellation on May 30, 2018. Project was readvertised in November, 2018.)	Procurement will continue.
1.9	FOG Removal Facility	The SDWWTP FOG Removal Facility project is being performed pursuant to Paragraph 19(i) and Appendix D. The current FOG separation tank is not capable of adequately handling solids load, resulting in excess odors and unanticipated manual labor to remove large amounts of grit, settled soils and hardened grease. The purpose of this project is to improve separation operations to the recently constructed FOG removal facility. This will result in the conveyance of oils and floating grease to a beneficial use option process and the removal of excess grit and settled solids.	Construction continued.	Construction will be completed.
1.10	Odor Control	The SDWWTP Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to upgrade the odor control facilities.	Design continued.	Design will continue.

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	<p>The SDWWTP General Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed throughout the plant.</p> <p>This project schedule has been broken down into multiple child/sub projects to better reflect the way the work is being executed: 1.1) SDWWTP Substation 9-12; 1.2) Generator Repairs; 2) Replacement of primary feeders from Main Switchgear A & B to Effluent Pump Station Pumps 1-6; 3) Replace Primary Feeders from Electrical Building 1 to Substations 7 & 8 9 - This work is part of Project 1.07</p>	<p>1.11(1.1) Permitting was completed and procurement commenced.</p> <p>1.11(1.2) Re-Design continued. Permitting and procurement commenced.</p> <p>1.11(2) Design and permitting were completed. Procurement commenced</p> <p>1.11(3) Deleted. The scope of this project is part of Project 1.07 and will no longer be tracked as a separate child project.</p>	<p>1.11(1.1) Procurement will be completed. Construction will commence.</p> <p>1.11(1.2) Permitting will be completed. Procurement will continue.</p> <p>1.11(2) Procurement will continue.</p>
1.12	Chlorine Contact Chamber Structural Rehabilitation	<p>The SDWWTP Chlorine Contact Chamber Structural project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the structural rehabilitation and coating of chlorine contact chambers 1 through 4. This project was split into two child projects: 1.12(1) Chlorine Contact Chamber Actuator Replacement; and 1.12(2) Chlorine Contact Chamber Structural Rehab & Sluice Gates Replacement</p>	<p>Construction for 1.12(1) Actuator Replacement was completed on June 5, 2018.</p> <p>1.12(2) Construction for Sluice Gates continued.</p>	<p>1.12(2) Procurement for contact chambers # 3 & 4 will commence. Construction for the Sluice Gates will be completed.</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
2.1	Electrical Improvements	<p>The CDWWTP Electrical Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed throughout the plant. This project schedule has been broken down into multiple components more accurately reflect the way the work is being executed:</p> <ol style="list-style-type: none"> 1) CDWWTP General Electric In-house Construction - Substations 1 and 2. 2) Substations 3, 4A, 4B, 5 & 6 – This work is part of Project 2.27(2). 3) Substations 9 & 10 - This work is part of Project 2.10(1). 4) Substations 11 & 12 – This work is part of project 2.11. 5) Substations 15 & 16 – This work is part of Project 2.15(1). 6) Substations 17 & 18 – This work is part of Project 2.19(2a). 7) Substations 7A, 8A, 9A & 10A 	<p>Note: The majority of this work will be done in conjunction with other CD projects.</p> <p>2.1(1) Construction Sub-Stations 1 & 2 Completed on May 5, 2016.</p> <p>2.1(2) Procurement was completed.</p> <p>2.1(3) Procurement was completed and construction commenced.</p> <p>2.1(4) Procurement continued.</p> <p>2.1(5) Construction continued.</p> <p>2.1(6) Construction continued.</p> <p>2.1(7) Design continued.</p>	<p>2.1(2) Construction will commence.</p> <p>2.1(3) Construction will continue.</p> <p>2.1(4) Procurement will be completed and construction will commence.</p> <p>2.1(5) Construction will continue.</p> <p>2.1(6) Construction will continue.</p> <p>2.1(7) Design will be completed. Permitting will commence.</p>
2.2	Building Improvements	<p>The CDWWTP Building Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the repair of maintenance, operations control and administration buildings at the plant. It includes the repair of the roofs and the staff facility. This project has been split into child projects. 1a) Building Improvements - Administration Building Asbestos Abatement. 1b) Administration Building Interior Improvements 1c) Miscellaneous Roof Improvements 2) Remodel Bathrooms, Locker Rooms & Showers.</p>	<p>2.2(1a) Completed on June 1, 2015.</p> <p>2.2(1b) Construction was completed on January 17, 2018.</p> <p>2.2(1c) Completed on October 19, 2016.</p> <p>2.2(2) Construction activities suspended on October 31, 2017. Contractor terminated for convenience on June 7, 2018. Re-design was completed. Re-permitting and re-procurement commenced.</p>	<p>2.2(2) Re-permitting and Re-procurement anticipated to be completed. Re-construction anticipated to commence.</p>
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. 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.</p>	<p>Construction continued.</p>	<p>Construction will be completed.</p>
2.4	Headworks Plant 2	<p>The CDWWTP Headworks/Grit Basin project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing screening facilities at the CDWWTP influent pump station are inefficient. This results in the accumulation of rags and plastics in plant processes which sometimes leads to pump, mixer and clarifier collection mechanism failure.</p>	<p>Construction continued.</p>	<p>Construction will continue.</p>
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. The project involves the retrofitting of the aeration mixers, structural rehabilitation and surface coating application.</p> <p>Mixer retrofits were completed in early 2014.</p> <p>Structural rehabilitation work for Train #2 and Train #3 will be performed by WASD in-house forces during the dry seasons.</p>	<p>Procurement was completed. Construction was completed on June 22, 2018.</p>	<p>N/A</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
2.6	Oxygenation Trains Plant 2	The CDWWTP Oxygenation Trains Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the retrofitting of the aeration mixers, structural rehabilitation and surface coating application.	Procurement and construction continued.	Procurement and construction will continue.
2.7	Secondary Clarifiers Plant 1	The CDWWTP Secondary Clarifiers Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structure and replace the sludge collection mechanisms in the plant. This project has been split in 3 child projects: 1) Secondary Clarifiers Plant 1 RAS pump discharge piping. 2) Secondary Clarifiers Plant 1 Train Mechanisms. 3) Secondary Clarifiers Plant 1 Structural Rehab.	2.7(1) Design continued 2.7(2) Construction continued. 2.7(3) Design was completed. Procurement and construction continued.	2.7(1) Design will continue 2.7(2) Construction will continue. 2.7(3) Procurement and construction will continue. Structural Rehab Procurement for Train 3 will continue.
2.8	Secondary Clarifiers Plant 2	The CDWWTP Secondary Clarifiers Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structure, replace the sludge collection mechanisms in the plant and provide electrical equipment for new annex building. This project has been split into three child projects: 1) RAS pump discharge piping, 2) Train Mechanisms, and 3) Structural Rehab.	2.8(1) Procurement was completed and construction commenced. 2.8(2) Construction for trains 2 & 3 commenced. 2.8(3) Design was completed. Procurement and construction commenced.	2.8(1) Construction will continue. 2.8(2) Construction will continue. 2.8(3) Procurement and construction will continue.
2.9	RS Pump Stations Plant 1	The CDWWTP RS Pump Stations Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations. Work on this project will be performed in conjunction with Project 2.7.	Design continued.	Design will continue.
2.10	RS Pump Stations Plant 2	The CDWWTP RS Pump Stations Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations. This project has been split into 2 separate child projects: 1) Return Sludge PS Plant 2 - RAS Pump, 2) Return Sludge PS Plant 2 - RAS Line	2.10(1) Procurement was completed and construction commenced. 2.10(2) Construction of RAS Header Pipe was completed on July 7, 2017.	2.10(1) Construction will continue.
2.11	Effluent Pump Station	The CDWWTP Effluent Pump Station project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the pump motors and related electrical equipment in the effluent pump station.	Procurement continued.	Procurement will be completed and construction 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
2.12	Sludge Thickeners Plant 1	The CDWWTP Sludge Thickeners Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the thickened sludge pumps, sanitary sewer pumps, HVAC and electrical systems in the concentrator pump station. The objective of this project is to provide a combined Thickening and Dewatering facility under one common building. The existing sludge concentrators will be abandoned and a centrifuge thickening system will be utilized. This project will be performed in conjunction with projects 2.13 and 2.16 under a design-build delivery method.	Procurement continued. (Bid cancellation on May 30, 2018. Project was readvertised in November, 2018.)	Procurement will continue.
2.13	Sludge Thickeners Plant 2	The CDWWTP Sludge Thickeners Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the thickened sludge pumps, sanitary sewer pumps, HVAC and electrical systems in the concentrator pump station. The existing sludge concentrators will be abandoned and a centrifuge thickening system will be utilized. This project will be performed in conjunction with projects 2.12 and 2.16 under a design-build delivery method.	Procurement continued. (Bid cancellation on May 30, 2018. Project was readvertised in November, 2018.)	Procurement will continue.
2.14	Digesters Plant 1	The CDWWTP Digesters Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the complete rehabilitation of sludge digester clusters, i.e. roofs, concrete structures, recirculation and transfer pumps, mixers, and electrical pumps. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstable sludge that will require landfill disposal. This project has been split into 2 different child projects; 2.14(1) refers to digesters in cluster 1 and 2.14(2) refers to digesters in cluster 2.	On May 21, 2018, the County requested a Material Change to CD to cancel this project. Request under EPA/FDEP consideration.	Pending consideration of EPA/FDEP.

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	The CDWWTP Digesters Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the complete rehabilitation of sludge digester clusters, i.e. roofs, concrete structures, recirculation and transfer pumps, mixers, and electrical pumps. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstable sludge that will require landfill disposal. This project has been split into 4 different child projects; 2.15(1) refers to digesters in cluster 1; 2.15(2) refers to digesters in cluster 2; 2.15(3) refers to digesters in cluster 3; and 2.15(4) refers to digesters in cluster 4.	2.15(1) Construction continued. 2.15(2) Procurement was completed and construction commenced. 2.15(3) Permitting continued. 2.15(4) Child project deleted as approved by EPA.	2.15(1) Construction will continue. 2.15(2) Construction will continue. 2.15(3) Permitting will be completed and procurement will commence.
2.16	Dewatering Building	The CDWWTP Dewatering Building project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to construct a new combined thickening and dewatering facility and sludge cake conveyance system to the sludge storage buildings. This project is being performed under design-build delivery method.	Procurement continued. (Bid cancellation on May 30, 2018. Project was readvertised in November, 2018.)	Procurement will continue.
2.17	Chlorination Facilities	The CDWWTP Chlorination Facilities project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the design and construction of a new bulk sodium hypochlorite storage and dosing system in separate outdoor structures to replace the existing chlorine gas system.	Construction was completed on July 27, 2018.	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
2.18	Odor Control Systems	<p>The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. This involves the replacement of the motor control center of the odor control buildings including air-conditioned electrical rooms. It also involves replacement of odor control chemical pumps, piping, valves and gas stripping tower media. This project will be completed in conjunction with other related projects. A portion of this project 2.18(1) Headworks Odor Controls System, will be performed earlier in coordination with the Headworks projects (2.3/2.4). The remainder will be performed in coordination with the Dewatering project (2.16).</p>	<p>2.18(1) Construction continued. 2.18(2) Procurement continued. (Bid cancellation on May 30, 2018. (Project was readvertised in November, 2018.)</p>	<p>2.18(1) Construction will be completed. 2.18(2) Procurement will continue.</p>
2.19	Co-Gen Facility	<p>The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the installation of two new cogeneration engines, cogeneration building improvements, replacement of biogas pipeline and installation of biogas conditioning system. Thus, this project has been split into separate "child" projects: 1) Co-Gen Generator Replacement, 2a) Co-Gen Biogas Treatment Facilities, and 2b) Co-Gen Restroom and Building Rehab.</p>	<p>2.19(1) Completed on January 27, 2016. 2.19(2a) Construction continued. 2.19(2b) Procurement was completed and construction commenced.</p>	<p>2.19(2a) Construction will continue. 2.19(2b) Construction will continue.</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
2.20	Septage Uploading	The CDWWTP Septage Unloading project is required under Paragraph 19(i) and Appendix D. The CD scope of this project included the construction of a new septage handling station to remove FOG from the main wastewater treatment stream and treat either through digestion or an off-site third part facility. However, the violation associated with this project was resolved by requiring all hauled waste to be sent to the South District WWTP as of January 2013.	Motion to delete Project 2.20 Septage Uploading at CD WWTP has been approved by the Court on December 28, 2016.	N/A
2.21	Pump Station 1	The CDWWTP Pump Station No. 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the pump station for the odor control system and rehabilitate the bar screen mechanisms.	Construction continued.	Construction will continue.
2.22	Pump Station 2	The CDWWTP Pump Station No. 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the pump station odor control system, rehabilitation of bar screen mechanism, and replacement pump stations flow metering to improve maintenance accessibility.	Construction continued.	Construction will be completed.
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. Existing oxygen production systems are either failing or obsolete. The purpose of this project is to replace existing oxygen production systems.	Construction was completed on April 25, 2016 ahead of the CD compliance date March 9, 2017.	N/A
2.24	Gas Monitoring	The CDWWTP Gas Monitoring project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to monitor gas levels and place alarms in hazardous areas.	Construction was completed on September 29, 2017.	N/A
2.25	Ventilation Improvements	The CDWWTP Ventilation Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to improve ventilation in hazardous areas. This project schedule has been broken down into multiple components to more accurately reflect the way the work is being executed: 1) HVAC Improvements for air scrubber. 2) Headworks HVAC Improvements (Project 2.3/2.4) 3) Digester Control Building HVAC Improvements (Project 2.15(1)) 4) Pump Station 1 HVAC Improvements (Project 2.21) 5) Pumps Station 2 HVAC Improvements (Project 2.22)	2.25(1) N/A 2.25(2) Construction continued. 2.25(3) Construction continued. 2.25(4) Construction continued. 2.25(5) Construction continued.	2.25(1) Design will commence. 2.25(2) Construction will continue. 2.25(3) Construction will continue. 2.25(4) Construction will continue. 2.25(5) Construction will be completed.

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. This project involves the replacement of corroded walkways, stairways, railings, grating throughout the plant. Work is being performed by in-house WASD resources.	Construction continued.	Construction will continue.
2.27	Oxygen Production	The CDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing units are near the end of useful life and prone to failure. The purpose of this project is to construct a new 80 ton/day oxygen production cryogenic tower and air compression unit to provide full redundancy. This project was split into 2 "child" projects: 1) Oxygen Production Site Preparation, and 2) Oxygen Production Design-Build.	2.27(1) Oxygen Production Site Preparation was completed on June 29, 2017. 2.27(2) Procurement was completed.	2.27(2) Design-Build will commence.
2.28	SCADA RTU Upgrades	The CDWWTP Building Improvements project was performed pursuant to Paragraph 19(i) and Appendix D. The old radio communication system was obsolete and it was difficult to procure parts. The purpose of the project was to upgrade the SCADA remote telemetry units to maintain operational sustainability.	This project was completed as of February 10, 2014 ahead of the CD compliance date March 29, 2014.	N/A
2.29	High Strength Influent Impact Study	The CDWWTP High Strength Influent Impact Study was performed pursuant to Paragraph 19(i) and Appendix D. The CDWWTP was experiencing an increase in TSS and BOD loading. This study investigated the sources and conceptualized solutions to eliminate or mitigate the change in plant influent characteristics.	Completed. Work started February 2013 and was completed June 5, 2014 ahead of the CD compliance date June 24, 2014.	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. 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.	Construction was completed on December 6, 2017 ahead of the CD compliance date April 7, 2018.	N/A
3.2	Primary Clarifiers and Odor Control	The NDWWTP Primary Clarifiers and Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structures of the primary clarifiers, replacement of the mechanisms, installation of new flat type covers at each clarifier. It also involves the rehabilitation of the mechanical and odor control systems at the plant. This project was split into 2 child projects: 1) Replace Primary Clarifiers for Mechanisms #4 & 6, and 2) Primary Clarifiers and Odor Control (Remaining Scope of Work).	3.2(1) Construction continued. 3.2(2) Procurement was completed and construction commenced.	3.2(1) Construction will be completed. 3.2(2) Construction will continue.
3.3	Oxygenation Trains	The NDWWTP Oxygenation Trains project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the structures of the aeration tanks and its mechanical and electrical systems.	Design continued. Procurement for cleaning of Tank #5 continued.	Design will continue. Cleaning of Tank #5 Oxygenation Trains will commence.
3.4	Oxygen Production	The NDWWTP Oxygen Production project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the oxygen plant and its mechanical and electrical systems.	Design continued.	Design will continue.
3.5	Secondary Clarifiers	The NDWWTP Secondary Clarifiers project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the secondary clarifiers and its mechanical and electrical systems. This project was split into 2 child projects: 3.5(1) Replace Mechanisms # 1-10; and 3.5(2) Remaining Scope of Work.	3.5(1) Mechanisms #1-10 were replaced. This child project was completed on March 30, 2017. 3.5(2) Procurement was completed and construction commenced.	3.5(1) N/A 3.5(2) Construction will continue.
3.6	Disinfection	The NDWWTP Disinfection project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the chlorine gas storage, liquid chlorination and dosing system with bulk sodium hypochlorite storage and dosing system in the existing chlorine building.	Permitting continued and procurement was completed.	Permitting will be completed and construction will commence.

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
3.7	Effluent Disposal	The NDWWTP Effluent Disposal project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the installation of standby pumps to ensure effluent disposal capacity and the structural rehabilitation of the ocean outfall pump station wet well. All of the 3.07 work has been combined into a single project. The Deep Injection Well (DIW) mechanical and electrical equipment is being managed by WASD Plant Staff. The CD scope is limited to pumps 5-6, where pumps 1-4 will be funded through the overall WASD CIP.	The Ocean Outfall Pump Station rehabilitation was completed in March 2015. Construction of DIW Pump Station was completed on June 29, 2018.	N/A
3.8	Plant Wide Electrical	The NDWWTP Plant Wide Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed at the NDWWTP. This project schedule has been broken down into multiple child/sub projects to better reflect the way the work is being executed: 1) NDWWTP General Electrical In House Construction Feeders 1 and 2 have been replaced. 2) Electrical Feeders 3-6 Feeders 3-6 will be replaced in conjunction with Project 3.1. 3) Electrical Feeders 7-8 Feeders 7 and 8 will be replaced along with Project 3.4. 4) Electrical Feeders 9-10 & 13-14 Feeders 11 & 12 were completed due to recent upgrades performed on the deep injection well pump motors.	3.8(1) General Electrical In-house construction (Feeders 1-2) was completed on January 15, 2016. 3.8(2) Electrical Feeders 3-6 (Project 3.1) was completed on December 6, 2017. 3.8(3) Electrical Feeders 7-8 design continued. 3.8(4) Design and construction continued.	3.8(1) N/A 3.8(2) N/A 3.8(3) Electrical Feeders 7-8 design will continue. 3.8(4) Design will be completed. Permitting will commence and be completed. Construction will continue.
3.9	Flood Mitigation	The NDWWTP Flood Mitigation project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to mitigate the flood potential in the Generator and Electrical Building at the NDWWTP.	This project was completed on June 24, 2016, ahead of the CD compliance date of August 13, 2017.	N/A
3.10	Yard Piping Replacement	The NDWWTP Yard Piping Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the wastewater piping that interconnects unit processes throughout the plant.	Project was completed on May 24, 2016, ahead of the CD compliance date of December 4, 2021.	N/A
3.11	SCADA RTU Upgrades	The NDWWTP SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units to maintain operational sustainability.	Project was completed on November 26, 2014, ahead of the CD compliance date March 24, 2015.	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.	Work on this project will continue.
4.2	Government Cut FM Phase 1 & 2	The Government Cut FM Phases 1 & 2 project was performed in accordance with Paragraph 19(i) and Appendix D. The purpose of this two-phase project is to replace critically damaged sections of 54-inch force main to avert catastrophic failures in Government Cut. This project involved the replacement of 54 inch FM with 60 inch FM from the water shaft in Government Cut to mainland Miami Beach.	Project was completed on the CD compliance date of 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. The Government Cut FM Phase 3 (Norris Cut Utility Relocation Project) is comprised of the following; the existing 54" force main underneath Norris Cut between Fisher Island and the Central District Wastewater Treatment Plant (CDWWTP), on Virginia Key, will be replaced with a new 60" force main lowered to elevation minus (-) 67.50 feet mean sea level. A new 8" force main will be constructed from Pump Station 170, on Fisher Island, connecting to the new 60" force main near the tunnel receiving shaft. The 60" pipeline alignment will be constructed via segmental tunnel trenchless technology, and open cut trenching method. The 8" pipeline alignment will be constructed via horizontal directional drilling (HDD) trenchless methodology.	Project was completed on November 23, 2016, ahead of the CD compliance date of April 8, 2017.	N/A
4.4	North Dade 72 inch PCCP FM Rehabilitation	This North Dade Force Main Rehabilitation project is being performed in accordance with Paragraph 19(i) and Appendix D. The project replaces a damaged section of 72-inch force main that has experienced catastrophic failure. The rehabilitation involves 3.5 miles of 72 inch PCCP FM located between NW 17 Avenue and NE 10 Avenue in North Dade.	Construction was completed on May 5, 2016 ahead of the CD compliance date of March 5, 2018.	N/A
4.5	South Dade 54 inch PCCP FM Rehabilitation	This South Dade Force Main Rehabilitation project is being performed in accordance with Paragraph 19(i) and Appendix D. The project involves the rehabilitation of 2.5 miles of 54 inch PCCP FM from SW 112 Avenue and SW 280 Street to SW 107 Avenue and SW 248 Street in South Dade. It replaces sections of the 54-inch force main that has critically damaged pipe segments.	Project was completed on September 14, 2018 ahead of the CD compliance date of December 23, 2018.	N/A
4.6	Replacement of Tamiami Canal Aerial Crossing FMs at NW 37th Avenue	This Tamiami Force Main Replacement project is being performed in accordance with Paragraph 19(i) and Appendix D. This project replaces corroded twin 24 inch FM's crossing the Tamiami Canal at NW 37 Avenue, just south of NW 21 Street in the Tamiami area. The twin 24-inch force mains have experienced failures and are in need of replacement.	Construction was completed on May 27, 2014 ahead of the CD compliance date of October 29, 2016.	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
4.7	Rehabilitation of 18 DIP FM in Miami Lakes	This Miami Lakes Force Main Replacement project is being replaced in accordance with Paragraph 19(i) and Appendix D. The purpose of this project is to replace severely corroded 18 inch pipe that has had multiple failures. It replaces one mile of 18 inch DIP FM located at NW 60 Avenue and NW 138 Street.	Construction was completed on December 7, 2015 ahead of the CD compliance date of April 9, 2017.	N/A
4.8	Rehabilitation of 54 inch PCCP FM in the City of Miami	This City of Miami Force Main Rehabilitation project is being performed pursuant to Paragraph 19(i) and Appendix D. A section of 54 inch force main in the City of Miami is deteriorated and has experienced failures. The project involves the rehabilitation of 2 miles of 54 inch PCCP FM by cured-in-place liner located on NW 2 Street between NW 67 Avenue and NW 37 Avenue in the City of Miami.	Construction of CD CIP 4.8 was completed on June 16, 2017.	N/A
4.9	Replace Approximately 30 miles of AC FM Transmission System	This Force Main Transmission System Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace asbestos cement force mains that have experienced failures and are difficult to locate in the field. This includes approximately 30 miles of AC FM transmission system. This project has been divided into multiple sub/child projects. See individual status of each project in Table A-4.2.	Design, permitting, procurement and construction continued. See individual status of each project in Table A-4.2.	Design, permitting, procurement and construction will continue. See individual status of each project in 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. 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. This project has been split into four (4) child/sub projects. 1) Includes rehab of an existing 48" FM east of the Opa-Locka Airport. 2) Includes two (2) miles of open cut 54" DIP FM pipe along airport.	4.10(1) Construction was completed on October 27, 2017. 4.10(2) Construction was completed on May 11, 2018.	N/A

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
1	12	SW 112 Ave. & SW 104 St.	SW 112 Ave. & SW 112 St.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
2	8	NE 14 Ave. & 191 St.	NE 14 Ave. & Miami Gardens Dr.	Construction for this project was completed on October 25, 2016.	N/A
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.	This project was completed on August 18, 2017.	N/A
7	10	NW 52 Ct. & NW 190 St.	NW 52 Ave. & NW 189 Ter.	This project was completed on August 18, 2017.	N/A
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.	This project was completed on August 7, 2015.	N/A
10	12	NW 29 Ct. & NW 199 St.	NW 30 Pl. & NW 199 St.	This project was completed on August 7, 2015.	N/A
11	8	NW 29 Ct. & NW 199 St.	NW 28 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
12	6	PS 374	NW 28 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
13	12	NW 30 Pl. & NW 199 St.	NW 37 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
14	8	PS 368	NW 37 Ave. & NW 194 Ter.	This project was completed on June 3, 2015.	N/A
15	4	PS 375	NW 29 Pl. and NW 191 St.	This project 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	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
16	10	PS 427	NW 29 Pl. and NW 191 St.	This project was completed on June 3, 2015.	N/A
17	10	NW 29 Pl. and NW 191 St.	NW 32 Ave. & NW 191 St.	This project was completed on June 3, 2015.	N/A
18	6	PS 376	NW 32 Ave. & NW 191 St.	This project was completed on June 3, 2015.	N/A
19	6	PS 377	NW 36 Ave. & NW 183 St.	This project was completed on June 3, 2015.	N/A
20	8	PS 366	NW 42 Pl. & NW 199 Ter.	This project was completed on March 6, 2017.	N/A
21	10	NW 42 Pl. & NW 199 Ter.	NW 39 Ct. & NW 199 St.	This project was completed on March 6, 2017.	N/A
22	6	PS 358	PS 352	This project was completed on March 1, 2017.	N/A
23	8	PS 1022	PS 1072	This project was completed on June 15, 2018.	N/A
24	8	PS 353	NW 48 Ct. & NW 178 Ter.	This project was completed on October 27, 2016.	N/A
25	10	NW 52 Ave. & NW 173 Dr.	NW 52 Ave. & NW 178 Ter.	This project was completed on April 3, 2017.	N/A
26	6	PS 354	NW 52 Ave. & NW 173 Dr.	This project was completed on April 3, 2017.	N/A
27	4	Pvt. PS @ SW 149 Ter.	MH 14 @ PS 719	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
28	8	PS 786	MH 5 @ PS 785	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
29	12	PS 811	SW 107 Ave. & SW 76 St.	Construction continued.	Construction will be completed.
30	12	PS 811	SW 102 Ave. & SW 81 St.	Construction continued.	Construction will be completed.

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
31	10	PS 812	SW 102 Ave. & SW 84 St.	Construction continued.	Construction will be completed.
32	12	SW 107 Ave. & SW 104 St.	SW 107 Ave. & Kendale Blvd.	This project was completed on October 13, 2017.	N/A
33	4	Pvt. PS @ 114 Ave. & SW 169 St.	MH 59 @ SW 103 Ave.	This project was completed on August 12, 2016.	N/A
34	10	PS 709	Homestead Ave. & Kumquat St.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
35	6	SW 110 Ave. & Banyan St.	SW 95 Ave. & SW Banyan St.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
36	4	PS 721	US1 & Banyan St.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
37	4	PS 749	PS 731	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
38	4	PS 747	US1 & East Indigo St.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
39	10	SW 102 Ave. & SW 176 St.	Homestead Ave. & West Jessamine	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
40	8	PS 745	SW 102 Ave. & SW 175 St.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
41	4	PS 731	SW Duval Ave. & West Indigo St.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
42	10	SW 102 Ave. & West Jessamine	US1 & SW 184 St.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
43	12	Homestead Ave. & 180 St.	Railroad St. & SW 184 St.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
44	8	PS 810	SW 118 Pl. & SW 72 St.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
45	12	PS 793	SW 118 Pl. & SW 72 St.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
46	6	PS 724	SW 106 Ave. & SW 155 St.	Permitting was completed and procurement continued.	Procurement will be completed. Construction will commence.
47	8	PS 869	SW 122 Ave. & SW 88 St.	This project was completed on February 1, 2017.	N/A
48	10	PS 1017	SW 123 Pl. & SW 268 St.	Procurement was completed. Construction commenced.	Construction will continue.

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
49	10	PS 1029	SW 132 Ave. & 268 St.	Procurement was completed. Construction commenced.	Construction will continue.
50	8	SW 137 Ave. & SW 268 St.	SW 128 Ave. & 268 St.	Procurement was completed. Construction commenced.	Construction will continue.
51	10	PS 1028	SW 137 Ave. & 288 St.	Procurement was completed. Construction commenced.	Construction will continue.
52	10	PS 1027	SW 132 Ave. & 280 St.	Procurement was completed. Construction commenced.	Construction will continue.
53	8	PS 1018	MH 44A @ SW 132 Ave.	Procurement was completed. Construction commenced.	Construction will continue.
54	12	SW 137 Ave. & SW 72 St.	SW 142 Ave. & SW 72 St.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
55	12	SW 142 Ave. & SW 72 St.	SW 147 Ave. & SW 72 St.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
56	8	PS 864	SW 147 Ave. & SW 72 St.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
57	8	SW 142 Ave. & Kendale Lakes Blvd.	SW 140 Ave. & Kendale Lakes Blvd.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
58	10	SW 140 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & Kendale Lakes Blvd.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
59	12	SW 137 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & SW 81 St.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
60	8	PS 1013	PS 1012	Permitting was completed and procurement commenced.	Procurement will be completed. Construction will commence.
61	10	PS 1012	SW 144 Ave. & SW 280 St.	Permitting was completed and procurement commenced.	Procurement will be completed. Construction will commence.

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
62	8	PS 1011	SW 144 Ct. & SW 280 St.	Permitting was completed and procurement commenced.	Procurement will be completed. Construction will commence.
63	10	SW 147 Ave. & SW 288 St.	SW 134 Pl. & SW 288 St.	Procurement was completed. Construction commenced.	Construction will continue.
64	6	PS 1009	SW 147 Ave. & SW 296 St.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.
65	6	PS 1006	PS 1005	Design was completed. Permitting commenced and was completed. Procurement commenced.	Procurement will be completed. Construction will commence.
66	8	PS 1002	SW 152 & SW 304 St.	Cut and Plug Design continued.	Design will be completed. Permitting will commence and be completed. Procurement will commence.

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. 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.	Construction continued.	Construction will be completed.
5.2	Upgrade of PS No. 0691	The Upgrade of PS No. 0691 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0691. In February 2016, the County transmitted a request for modification to EPA and FDEP. The County requested to modify the scope of work to include completion of Homestead Pump Station No.1 and decommissioning of PS 0691 in lieu of upgrading PS 0691. EPA and FDEP approved the request for modification in April 2016.	Construction continued.	Construction will be completed. Decommissioning of PS 0691 will be completed.
5.3	Upgrade of PS No. 0692	The Upgrade of PS No. 0692 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0692.	Procurement continued.	Procurement will be completed and construction will commence.
5.4	Replacement of Switchgear PS No. 0414	The Replacement of Switchgear PS No. 0414 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing pump station equipment has reached the end of its useful life and a booster station is needed to relieve the pressures and reroute flow away from PS 1310 and PS 0300. The purpose of this project is to convert PS 0414 into a booster type station and rehabilitate and replace the entire facility equipment (pumps, motors, electrical equipment, HVAC, valves, and piping).	5.4(1) Construction continued.	5.4(1) Construction will be completed.
5.5	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing pump station equipment has reached the end of its useful life and the wet well structure is badly deteriorated due to H ₂ S. This project involves the rehabilitation and replacement of the entire facility equipment (pumps, motors, electrical equipment, HVAC, odor control, valves, piping and wet well) in PS 0415.	Construction continued.	Construction 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. The existing equipment of the PS is beyond its useful life. This project involves the replacement of electrical switchgear in PS No. 0416.	Construction continued.	Construction will be completed.
5.7	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0417	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0417 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and the wet well structure is badly deteriorated due to H ₂ S. This project involves the rehabilitation and replacement of the entire facility equipment (pumps, motors, electrical equipment, HVAC, odor control, valves, piping and wet well) in PS 0417.	Construction continued.	Construction will be completed.

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
5.8	Replacement of Electrical and Mechanical Equipment PS No 0107	The Replacement of Electrical and Mechanical Equipment PS No. 0107 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond of the PS is beyond its useful life and parts are not readily available for the load cell type controllers. This project involves the replacement of pumping and electrical equipment of PS 0107.	Construction was completed on February 23, 2018 ahead of CD compliance date of January 27, 2019.	N/A
5.9	Replacement of Pumping and Electrical Equipment PS No. 0301	The Replacement of Pumping and Electrical Equipment PS No. 0301 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing pump station equipment has reached the end of its useful life and a new pump station is needed to address future capacity needs, sea level rise and storm surge. Phase 1 of the project involves the replacement of the pumps, electrical equipment and generators, in addition to rehabilitation of the HVAC equipment of PS 0301. Phase 2 will include the construction of a new submersible pump station.	Design, permitting and procurement continued.	Design and permitting will be completed. Procurement 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. The existing equipment is beyond its useful life. This project involves the conversion of the PS a submersible type station.	This project was completed on December 8, 2016 ahead of the CD compliance date of May 9, 2018.	N/A
5.11	Installation of 60 inch FM from Kendall Dr. to PS No. 0536	Currently, there is a pressure differential and increase flow transfer between PS 0559 and PS 0536. The purpose of this project was originally to install a 60 inch FM from Kendall Dr. to PS 0536 to eliminate the 42 inch reduction in the 60 inch FM. System reviews and analysis has determined that the installation of a 48 inch cross connection between the existing 72 inch effluent FM to an existing 48 inch force main will accomplish the desired reduction in pressure differential.	Construction continued.	Construction will be completed.
5.12	Replacement of Switchgear PS No. 0187	The Replacement of Switchgear PS No. 0187 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing PS equipment is beyond its useful life and parts are not readily available. This project involves the demolition of the four (4) existing 450 hp pumps (3 two-speed, and 1 with Anvic Drive) and the installation of four (4) new 450 hp pumps and motors, with new VFDs, replacement of electrical switchgear, HVAC and lighting upgrades, expansion of Electrical Room, generator upgrades, and replacement of plug valves and control valves.	Construction continued.	Construction will be completed.
5.13	Refurbish Emergency Generators and Controls at Regional PSs	The Refurbish Emergency Generators and Controls at regional PSs project is being performed pursuant to Paragraph 19(i) and Appendix D. The emergency backup generators are unreliable due to the age of the controllers and the condition of the wiring on the engines. The purpose of this project is to refurbish emergency generators and controls at regional PSs.	Construction was completed on February 4, 2016, ahead of the CD compliance date of July 20, 2016.	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
5.14	Upgrade of PSs Nos. 0086 and 0492	The Upgrade of Pump Stations No. 0086 and 0492 project was performed and completed pursuant to Paragraph 19(i) and Appendix D. The project was designed to increase reliability and extend the service life of the pump station. The pump stations also exceeded the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. For this project, Pump Station No. 0086 was converted to a submersible type pump station with an existing wet well and the electrical controls and instrumentation were upgraded. The electrical controls and instrumentation for Pump Station No. 0492 were upgraded. It was also rehabilitated to a new submersible type pump station.	Construction was completed on July 15, 2013, ahead of the CD compliance date of December 31, 2013.	N/A
5.15	Upgrade of PSs Nos. 0065, 0201, 0334, 0374, 0607	The Upgrade of PSs No. 0065, 0201, 0334, 0374, 0607 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0065 is being upgraded to include new submersible pumps in the existing dry well, installation of larger suction and discharge piping, and an electrical upgrade. The PS No. 0201 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and 48 I/I repairs for a flow of 176 gpm. The PS No. 0334 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 2,200 L.F. of new 8 inch FM. The PS No. 0374 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and the installation of 320 L.F. of new 8 inch FM. The PS No. 0607 project involves the conversion to a new submersible type pump station and an electrical upgrade.	This project was completed on December 30, 2015 ahead of the CD compliance date December 31, 2015.	N/A
5.16	Upgrade of PSs Nos. 0198, 0437, 0466, 0680	The Upgrade of PSs No. 0198, 0437, 0466, 0680 project is being performed pursuant to Paragraph 19(i) and Appendix D. These pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS #0198 is being upgraded to include new submersible pumps in a new triplex wet well, an electrical upgrade and flow isolation. PS #0437 is being upgraded to include new dry pit submersible pumps, replacement of roughly 100 linear feet of 10" force main to the street connection, and electrical upgrades. PS#0466 is being upgraded to include refurbishment of the existing wet well and repairs to pipes and valves. PS #0680 is being upgraded to include new submersible pumps, new valve box, electrical upgrades and a new generator with sub-base tank. This project has been divided into four (4) child projects. With the following current statuses: 1) Pump Station No. 0198 Compliance Project. The CD Compliance deadline of December 31, 2016 was not achieved. The PMCM and WASD are working with the Contractor to try and complete the remaining work. 2) Pump Station No. 0437 Upgrade 3) Pump Station No. 0466 Compliance Project 4) Pump Station No. 0680 Upgrade	This project was completed on January 24, 2018.	N/A

Table A-5.1 Sewer Pump Station Systems

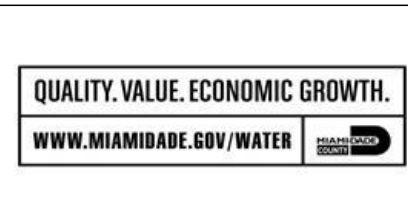
Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.17	Upgrade of PSs Nos. 0037, 0351, 0370, 0403	<p>The Upgrade of PSs No. 0037, 0351, 0370, 0403 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0037 project involves the conversion to a new submersible type pump station and an electrical upgrade. The PS No. 0351 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and the replacement of 360 L.F. of 4 inch with 8 inch FM. The PS No. 0370 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 760 L.F. of new 8 inch FM. The PS No. 0403 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of an on-site generator. This project is split into four (4) different sub/child projects (one per pump station).</p> <p>5.17(1) Pump Station 0037 Compliance Project 5.17(2) Pump Station No. 0351 Upgrade 5.17(3) Pump Station No. 0370 Upgrade and Installation of FM 5.17(4) Pump Station 0403 Upgrade</p>	<p>This project was completed on April 30, 2018 ahead of CD compliance date of November 20, 2018.</p> <p>5.17(1) PS#0037: Construction was completed on November 14, 2017. 5.17(2) PS#0351: Construction was completed on December 1, 2017. 5.17(3) PS#0370: Construction was completed on January 11, 2018. 5.17(4) PS#0403: Construction was completed on April 30, 2018.</p>	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
5.18	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. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0441 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 0491 is undergoing flow isolation and I/I repairs if necessary. The PS No. 710 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 1,800 L.F. of new 8 inch FM. The PS No. 0827 is being upgraded to include larger submersible pumps, installation of a new valve vault, an electrical upgrade and the replacement of 1,600 L.F. of 4 inch FM with 8 inch FM. The PS No. 0852 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 1236 is undergoing 300 I/I repairs to achieve a flow of 130 gpm. This project is split into six (6) different sub/child projects.</p> <ol style="list-style-type: none"> 1) Pump Station 0441 Upgrade 2) Pump Station 0491 Compliance Project 3) Pump Station 0710 Compliance Project 4) Pump Station 0827 Compliance Project 5) Pump Station 0852 Compliance Project 6) Pump Station 1236 Compliance Project – Consent Decree requirements for this project were accomplished and received EPA certification for Substantial Completion. PS#1236 has maintenance issues and will be resolved under phase 2 for which CD deadlines are not applicable. 	<p>5.18(1) Procurement was completed. Construction commenced. 5.18(2) Construction continued 5.18(3) Procurement was completed. Construction commenced. 5.18(4) Construction commenced. 5.18(5) Procurement was completed and construction commenced. 5.18(6) Completed on May 1, 2017.</p>	<p>5.18(1) Construction will be completed. 5.18(2) Construction will be completed. 5.18(3) Construction will be completed. 5.18(4) Construction will be completed. 5.18(5) Construction will be completed.</p>
5.19	SCADA RTU Upgrades	<p>The SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units for 635 pump stations to maintain operational sustainability.</p>	<p>Construction was completed on November 23, 2015 ahead of the CD compliance date March 18, 2016.</p>	<p>N/A</p>

Appendix B
Project Schedules Gantt Chart

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
WASD Consent Decree Schedule - December 2018 Update		6387	12-Dec-10 A	06-Jun-28																																		
0. General Compliance Activities		5480	06-Jun-13 A	06-Jun-28																																		
Program Milestones		5480	06-Jun-13 A	06-Jun-28																																		
General Compliance Activity		5480	06-Jun-13 A	06-Jun-28																																		
MC10000	Date of Lodging (DOL)	0	06-Jun-13 A																																			
MC10010	Effective Date - 6 months from DOL	0	06-Dec-13 A																																			
MC10030	Date of Entry (DOE)	0	09-Apr-14 A																																			
MC10020	CIP Completion Milestone - 15 Years from DOL	0		06-Jun-28*																																		
Reporting Requirements		2164	31-Mar-14 A	02-Mar-20																																		
Quarterly Reports		2132	31-Mar-14 A	30-Jan-20																																		
General Compliance Activity		2132	31-Mar-14 A	30-Jan-20																																		
PM10020	2014 Quarterly Report No 1	25	31-Mar-14 A	24-Apr-14 A																																		
PM10030	2014 Quarterly Report No 2	29	30-Jun-14 A	28-Jul-14 A																																		
PM10050	2014 Quarterly Report No 3	31	30-Sep-14 A	30-Oct-14 A																																		
PM10060	2014 Quarterly Report No 4	31	31-Dec-14 A	30-Jan-15 A																																		
PM10090	2015 Quarterly Report No 1	32	31-Mar-15 A	01-May-15 A																																		
PM10100	2015 Quarterly Report No 2	31	30-Jun-15 A	30-Jul-15 A																																		
PM10120	2015 Quarterly Report No 3	31	30-Sep-15 A	30-Oct-15 A																																		
PM10130	2015 Quarterly Report No 4	29	31-Dec-15 A	28-Jan-16 A																																		
PM50020	2016 Quarterly Report No 1	33	31-Mar-16 A	02-May-16 A																																		
PM50030	2016 Quarterly Report No 2	33	30-Jun-16 A	01-Aug-16 A																																		
PM50040	2016 Quarterly Report No 3	32	30-Sep-16 A	31-Oct-16 A																																		
PM50050	2016 Quarterly Report No 4	32	31-Dec-16 A	31-Jan-17 A																																		
PM50220	2017 Quarterly Report No 1	32	31-Mar-17 A	01-May-17 A																																		
PM50230	2017 Quarterly Report No 2	93	30-Jun-17 A	31-Jul-17 A																																		
PM50240	2017 Quarterly Report No 3	31	30-Sep-17 A	30-Oct-17 A																																		
PM50250	2017 Quarterly Report No 4	32	31-Dec-17 A	30-Jan-18 A																																		
PM50260	2018 Quarterly Report No 1	31	31-Mar-18 A	30-Apr-18 A																																		
PM50270	2018 Quarterly Report No 2	31	30-Jun-18 A	26-Jul-18 A																																		
PM50280	2018 Quarterly Report No 3	31	30-Sep-18 A	30-Oct-18 A																																		
PM50290	2018 Quarterly Report No 4	32	31-Dec-18*	31-Jan-19																																		
PM50580	2019 Quarterly Report No 1	32	31-Mar-19*	01-May-19																																		
PM50590	2019 Quarterly Report No 2	31	30-Jun-19*	30-Jul-19																																		
PM50600	2019 Quarterly Report No 3	31	30-Sep-19*	30-Oct-19																																		
PM50610	2019 Quarterly Report No 4	31	31-Dec-19*	30-Jan-20																																		
Semi Annual Reports		2042	30-Jun-14 A	31-Jan-20																																		
General Compliance Activity		2042	30-Jun-14 A	31-Jan-20																																		
PM10040	2014 Semi Annual Report No 1	31	30-Jun-14 A	30-Jul-14 A																																		
PM10070	2014 Semi Annual Report No 2	34	31-Dec-14 A	02-Feb-15 A																																		
PM10110	2015 Semi Annual Report No 1	31	30-Jun-15 A	30-Jul-15 A																																		
PM10150	2015 Semi Annual Report No 2	32	31-Dec-15 A	01-Feb-16 A																																		
PM50060	2016 Semi Annual Report No 1	33	30-Jun-16 A	01-Aug-16 A																																		
PM50070	2016 Semi Annual Report No 2	32	31-Dec-16 A	31-Jan-17 A																																		
PM50300	2017 Semi Annual Report No 1	93	30-Jun-17 A	31-Jul-17 A																																		
PM50310	2017 Semi Annual Report No 2	32	31-Dec-17 A	31-Jan-18 A																																		
PM50320	2018 Semi Annual Report No 1	32	30-Jun-18 A	30-Jul-18 A																																		
PM50330	2018 Semi Annual Report No 2	32	31-Dec-18*	31-Jan-19																																		
PM50620	2019 Semi Annual Report No 1	31	30-Jun-19*	30-Jul-19																																		
PM50630	2019 Semi Annual Report No 2	32	31-Dec-19*	31-Jan-20																																		
Annual Report		1889	31-Dec-14 A	02-Mar-20																																		
General Compliance Activity		1889	31-Dec-14 A	02-Mar-20																																		
PM10080	2014 Annual Report	62	31-Dec-14 A	02-Mar-15 A																																		
PM10140	2015 Annual Report	62	31-Dec-15 A	01-Mar-16 A																																		
PM50080	2016 Annual Report	62	30-Dec-16 A	01-Mar-17 A																																		
PM50340	2017 Annual Report	61	31-Dec-17 A	01-Mar-18 A																																		
PM50350	2018 Annual Report	61	31-Dec-18	01-Mar-19*																																		
PM50640	2019 Annual Report	63	31-Dec-19*	02-Mar-20																																		
Program Management/Construction Management Support		3549	06-Jun-14 A	25-Jun-24																																		
General Compliance Activity		3549	06-Jun-14 A	25-Jun-24																																		
PM50000	Program Management/Construction Management	3549	06-Jun-14 A	25-Jun-24																																		
1. South District WWTP		4381	19-Nov-13 A	16-Nov-25																																		
1.01 Headworks		1848	02-Feb-15 A	23-Feb-20																																		
Engineering Design		449	02-Feb-15 A	26-Apr-16 A																																		
SD10100	Engineering Design - SD Headworks	26	02-Feb-15 A	27-Feb-15 A																																		



MIAMI-DADE WATER & SEWER DEPARTMENT CONSENT DECREE PROGRAM SCHEDULE

- █ Summary (Remaining)
- █ Summary (Actual)
- █ Approved EPA Dates
- █ Actual Work
- █ Remaining Work
- █ Critical Rem. Work
- ◆ Milestone
- ▶ WBS Summary

Date	Revision	Checked	Approved
14-Jul-14	Revision 0	GSR	DH
15-Oct-18	Sept 2018 Update		
15-Nov-18	Oct 2018 Update		
14-Dec-18	Nov 2018 Update		
15-Jan-19	Dec 2018 Update		

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline (2016-2024)																											
					2016	2017	2018	2019	2020	2021	2022	2023	2024																			
SD10160	Procurement - SD Oxygen Production	448	28-Nov-16 A	26-Oct-18 A	Procurement - SD Oxygen Production																											
SD30210	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Oxygen Production	28	31-Aug-18 A	26-Oct-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Oxygen Production																											
SD41280	Vendor Bid & Award (Control Panels) - SD Oxygen Production	120	11-Dec-15 A	31-Mar-19	Vendor Bid & Award (Control Panels) - SD Oxygen Production																											
SD41290	Vendor NTP (Control Panels) - SD Oxygen Production	0	01-Apr-19		Vendor NTP (Control Panels) - SD Oxygen Production																											
SD41260	Pre-Purchase Control Panels (Summary) - SD Oxygen Production	640	15-Aug-15 A	11-Dec-19	Pre-Purchase Control Panels (Summary) - SD Oxygen Production																											
SD41300	Fabricate & Deliver Control Panels - SD Oxygen Production	255	01-Apr-19	11-Dec-19	Fabricate & Deliver Control Panels - SD Oxygen Production																											
SD31200	Fabricate & Deliver Air Compressor No. 4 - SD Oxygen Production	433	26-Jul-17 A	11-Feb-20	Fabricate & Deliver Air Compressor No. 4 - SD Oxygen Production																											
SD30000	Pre-Purchase Air Compressors (Summary) - SD Oxygen Production	1006	09-Sep-16 A	07-Nov-20	Pre-Purchase Air Compressors (Summary) - SD Oxygen Production																											
SD41580	Refurbish & Deliver Air Compressor No. 3 - SD Oxygen Production	267	15-Feb-20	07-Nov-20	Refurbish & Deliver Air Compressor No. 3 - SD Oxygen Production																											
Construction					2146																											
SD41590	Install New Oil/Water Separator (WASD)	43	12-Apr-16 A	24-May-16 A	Install New Oil/Water Separator (WASD)																											
SD42990	EPA Start Date for Construction - SD Oxygen Production	0	01-Oct-17 A		EPA Start Date for Construction - SD Oxygen Production																											
SD30220	Contractor NTP - SD Oxygen Production	0	07-Jan-19*		Contractor NTP - SD Oxygen Production																											
SD41530	Construct New Electrical Building	412	07-Jan-19	22-Feb-20	Construct New Electrical Building																											
SD41830	Install Instrumentation and Controls	60	02-Jan-20	01-Mar-20	Install Instrumentation and Controls																											
SD41540	Install & Test Compressor No. 4	120	21-Feb-20	19-Jun-20	Install & Test Compressor No. 4																											
SD41570	Disassemble, Ship, Refurbish and Return Compressor No. 3	120	20-Jun-20	17-Oct-20	Disassemble, Ship, Refurbish and Return Compressor No. 3																											
SD10260	Construction (Consent Decree) - SD Oxygen Production	791	07-Jan-19	07-Mar-21	Construction (Consent Decree) - SD Oxygen Production																											
SD41550	Install & Test Compressor No. 3	120	08-Nov-20	07-Mar-21	Install & Test Compressor No. 3																											
SD10440	Construction Completion Milestone #1 (CD Compliance Date 2/25/22) - SD Oxygen Production	0		07-Mar-21*	Construction Completion Milestone #1 (CD Compliance Date 2/25/22) - SD Oxygen Production																											
SD41560	Decommission Compressors No. 1 and No. 2	60	08-Mar-21	06-May-21	Decommission Compressors No. 1 and No. 2																											
SD43880	Construction (Non-Consent Decree) - SD Oxygen Production	70	08-Mar-21	16-May-21	Construction (Non-Consent Decree) - SD Oxygen Production																											
SD44780	Commissioning - SD Oxygen Production	30	17-Apr-21	16-May-21	Commissioning - SD Oxygen Production																											
SD43890	Substantial Completion (Non-Consent Decree) - SD Oxygen Production	0		16-May-21	Substantial Completion (Non-Consent Decree) - SD Oxygen Production																											
SD40010	Project Closeout - SD Oxygen Production	60	17-May-21	15-Jul-21*	Project Closeout - SD Oxygen Production																											
SD42010	EPA Compliance Date for Construction - SD Oxygen Production	0		25-Feb-22*	EPA Compliance Date for Construction - SD Oxygen Production																											
Project Administration					1953																											
SD35010	WASD Project Administration - SD Oxygen Production	1953	03-Apr-15 A	15-Jul-21	WASD Project Administration - SD Oxygen Production																											
1.03 Oxygenation Trains					3941																											
Engineering Design					914																											
SD43000	EPA Start Date for Engineering Design - SD Oxygenation Trains	0	31-Mar-17 A		EPA Start Date for Engineering Design - SD Oxygenation Trains																											
SD42020	EPA Compliance Date for Engineering Design - SD Oxygenation Trains	0		30-Sep-19*	EPA Compliance Date for Engineering Design - SD Oxygenation Trains																											
SD10190	Engineering Design - SD Oxygenation Trains	580	15-Feb-17 A	01-Nov-19	Engineering Design - SD Oxygenation Trains																											
Permitting					335																											
SD43010	EPA Start Date for Permitting - SD Oxygenation Trains	0	01-Oct-19*		EPA Start Date for Permitting - SD Oxygenation Trains																											
SD10250	Permitting - SD Oxygenation Trains	180	02-May-19	28-Oct-19	Permitting - SD Oxygenation Trains																											
SD42030	EPA Compliance Date for Permitting - SD Oxygenation Trains	0		31-Mar-20*	EPA Compliance Date for Permitting - SD Oxygenation Trains																											
Procurement					1431																											
SD43020	EPA Start Date for Procurement - SD Oxygenation Trains	0	30-Sep-18 A		EPA Start Date for Procurement - SD Oxygenation Trains																											
SD42040	EPA Compliance Date for Procurement - SD Oxygenation Trains	0		17-Jul-19*	EPA Compliance Date for Procurement - SD Oxygenation Trains																											
SD10330	Procurement - SD Oxygenation Trains	1370	21-Mar-17 A	30-Sep-22	Procurement - SD Oxygenation Trains																											
Construction					3941																											
SD43030	EPA Start Date for Construction - SD Oxygenation Trains	0	18-Jul-19*		EPA Start Date for Construction - SD Oxygenation Trains																											
SD41680	Construction - SD Oxygenation Trains	2979	02-Feb-15 A	28-Jan-24	Construction - SD Oxygenation Trains																											
SD41730	Substantial Completion (CD Compliance Date 11/16/25) - SD Oxygenation Trains	0		28-Jan-24*	Substantial Completion (CD Compliance Date 11/16/25) - SD Oxygenation Trains																											
SD42050	EPA Compliance Date for Construction - SD Oxygenation Trains	0		16-Nov-25*	EPA Compliance Date for Construction - SD Oxygenation Trains																											
1.03 (1) - Oxygenation Trains Structural Rehab					3023																											
Pre-Design					168																											
SD42500	Pre-Design - SD Oxygenation Trains Struct. Rehab	169	31-Aug-16 A	15-Feb-17 A	Pre-Design - SD Oxygenation Trains Struct. Rehab																											
Engineering Design					145																											
SD42550	Engineering Design Train 5 - SD Oxygenation Trains Struct. Rehab	37	15-Feb-17 A	24-Mar-17 A	Engineering Design Train 5 - SD Oxygenation Trains Struct. Rehab																											
SD41660	Engineering Design - SD Oxygenation Trains Struct. Rehab	146	15-Feb-17 A	11-Jul-17 A	Engineering Design - SD Oxygenation Trains Struct. Rehab																											
SD42530	Engineering Design Trains 2, 3, 4, 6, 7 - SD Oxygenation Trains Struct. Rehab	146	15-Feb-17 A	11-Jul-17 A	Engineering Design Trains 2, 3, 4, 6, 7 - SD Oxygenation Trains Struct. Rehab																											
Procurement					2020																											
SD42600	Procurement Train 5 - SD Oxygenation Trains Struct. Rehab	73	21-Mar-17 A	01-Jun-17 A	Procurement Train 5 - SD Oxygenation Trains Struct. Rehab																											
SD42590	Procurement Train 6 - SD Oxygenation Trains Struct. Rehab	96	11-Aug-17 A	23-Jan-18 A	Procurement Train 6 - SD Oxygenation Trains Struct. Rehab																											
SD42580	Procurement Train 4 - SD Oxygenation Trains Struct. Rehab	60	04-Oct-18 A	30-Sep-19	Procurement Train 4 - SD Oxygenation Trains Struct. Rehab																											
SD42470	Procurement Train 7 - SD Oxygenation Trains Struct. Rehab	180	04-Apr-20	30-Sep-20*	Procurement Train 7 - SD Oxygenation Trains Struct. Rehab																											
SD42610	Procurement Train 3 - SD Oxygenation Trains Struct. Rehab	180	04-Apr-21	30-Sep-21*	Procurement Train 3 - SD Oxygenation Trains Struct. Rehab																											
SD41670	Procurement - SD Oxygenation Trains Struct. Rehab	1700	21-Mar-17 A	30-Sep-22	Procurement - SD Oxygenation Trains Struct. Rehab																											
SD42620	Procurement Train 2 - SD Oxygenation Trains Struct. Rehab	180	04-Apr-22	30-Sep-22*	Procurement Train 2 - SD Oxygenation Trains Struct. Rehab																											
Construction					3023																											
SD10630	Construction Train 1 - SD Oxygenation Trains Struct. Rehab	341	02-Feb-15 A	08-Jan-16 A	Construction Train 1 - SD Oxygenation Trains Struct. Rehab																											
SD10550	Construction Train 5 - SD Oxygenation Trains Struct. Rehab	77	17-Mar-17 A	01-Jun-17 A	Construction Train 5 - SD Oxygenation Trains Struct. Rehab																											
SD10490	Construction Train 6 - SD Oxygenation Trains Struct. Rehab	105	23-Jan-18 A	30-May-18 A	Construction Train 6 - SD Oxygenation Trains Struct. Rehab																											
SD10420	Construction Train 4 - SD Oxygenation Trains Struct. Rehab	135	01-Oct-19	12-Feb-20	Construction Train 4 - SD Oxygenation Trains Struct. Rehab																											
SD10640	Construction Train 7 - SD Oxygenation Trains Struct. Rehab	135	01-Oct-20	12-Feb-21	Construction Train 7 - SD Oxygenation Trains Struct. Rehab																											
SD10590	Construction Train 3 - SD Oxygenation Trains Struct. Rehab	135	01-Oct-21	12-Feb-22	Construction Train 3 - SD Oxygenation Trains Struct. Rehab																											
SD10413	Construction - SD Oxygenation Trains Struct. Rehab	2582	02-Feb-15 A	12-Feb-23	Construction - SD Oxygenation Trains Struct. Rehab																											
SD10620	Construction Train 2 - SD Oxygenation Trains Struct. Rehab	135	01-Oct-22	12-Feb-23*	Construction Train 2 - SD Oxygenation Trains Struct. Rehab																											
SD42850	Project Closeout - SD Oxygenation Trains Struct. Rehab	90	13-Feb-23	13-May-23*	Project Closeout - SD Oxygenation Trains Struct. Rehab																											
Project Administration					2582																											
SD35020	WASD Project Administration - SD Oxygenation Trains Struct. Rehab	2582	02-Feb-15 A	12-Feb-23	WASD Project Administration - SD Oxygenation Trains Struct. Rehab																											
1.03 (2) - Oxygenation Trains - Mixer Upgrade/Electrical Building (OOL ST-1A/1B)					2739																											
Pre-Design					1023																											
Pre-Design - SD Oxygenation Trains - Mixer Upgrade/Electrical Building (OOL ST-1A/1B)					Pre-Design - SD Oxygenation Trains - Mixer Upgrade/Electrical Building (OOL ST-1A/1B)																											

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
SD20250	Pre-Design - SD Oxygenation Trains Electrical Building Expansion	974	11-Mar-16 A	11-Jan-18 A	Pre-Design - SD Oxygenation Trains Electrical Building Expansion																																	
SD44390	Project Transferred to OOL - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	0		11-Jan-18 A	Project Transferred to OOL - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
SD44590	Pre-Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	974	11-Jan-18 A	27-Jun-18 A	Pre-Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
Engineering Design																																						
SD20290	75% Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	244	27-Jun-18 A	01-May-19	75% Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
SD41710	Engineering Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	61	27-Jun-18 A	21-Jan-19	Engineering Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
SD20330	100% Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	153	27-Jun-18 A	01-May-19	100% Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
SD20330	100% Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	100	22-Jan-19	01-May-19	100% Design - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
Permitting																																						
SD41690	Permitting - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	180	02-May-19	28-Oct-19	Permitting - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
SD41690	Permitting - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	180	02-May-19	28-Oct-19	Permitting - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
Procurement																																						
SD41700	Procurement - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	217	01-Nov-19	04-Jun-20	Procurement - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
SD41700	Procurement - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	217	01-Nov-19	04-Jun-20	Procurement - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
Construction																																						
SD41450	Construction Train 7 - SD Oxygenation Trains Mixer Upgrade	2739	22-Feb-16 A	22-Aug-23	Construction Train 7 - SD Oxygenation Trains Mixer Upgrade																																	
SD41450	Construction Train 7 - SD Oxygenation Trains Mixer Upgrade	131	22-Feb-16 A	01-Jul-16 A	Construction Train 7 - SD Oxygenation Trains Mixer Upgrade																																	
SD20258	Contractor Notice to Proceed (NTP) - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	0	05-Jun-20		Contractor Notice to Proceed (NTP) - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
SD20260	Construction - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	1084	05-Jun-20	24-May-23	Construction - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
SD10650	Substantial Completion (CD Compliance Date 11/16/25) - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	0		24-May-23*	Substantial Completion (CD Compliance Date 11/16/25) - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
SD40020	Project Closeout - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	90	25-May-23	22-Aug-23*	Project Closeout - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
Project Administration																																						
SD35030	WASD Project Administration - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	1431	27-Jun-18 A	22-Aug-23	WASD Project Administration - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
SD35030	WASD Project Administration - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)	1431	27-Jun-18 A	22-Aug-23	WASD Project Administration - Mixer Upgrade/Electrical Building Expansion (OOL ST-1A/1B)																																	
1.03 (3) - Oxygenation Trains - SS 5/6 and SS 15/16 (OOL ST-2D)																																						
Pre-Design																																						
SD43520	Pre-Design (Mixer Evaluation) - SD Oxygenation Trains Mixer Upgrade	2926	22-Feb-16 A	25-Feb-24	Pre-Design (Mixer Evaluation) - SD Oxygenation Trains Mixer Upgrade																																	
SD43520	Pre-Design (Mixer Evaluation) - SD Oxygenation Trains Mixer Upgrade	308	12-Jan-17 A	06-Nov-17 A	Pre-Design (Mixer Evaluation) - SD Oxygenation Trains Mixer Upgrade																																	
SD44560	Pre-Design - SS 5/6 and SS 15/16 (OOL ST-2D)	308	11-Jan-18 A	28-Jan-19	Pre-Design - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
Engineering Design																																						
SD44570	60% Design - SS 5/6 and SS 15/16 (OOL ST-2D)	277	29-Jan-19	01-Nov-19	60% Design - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
SD44570	60% Design - SS 5/6 and SS 15/16 (OOL ST-2D)	178	29-Jan-19	25-Jul-19	60% Design - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
SD44580	100% Design - SS 5/6 and SS 15/16 (OOL ST-2D)	85	26-Jul-19	18-Oct-19	100% Design - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
SD43530	Engineering Design - SS 5/6 and SS 15/16 (OOL ST-2D)	277	29-Jan-19	01-Nov-19	Engineering Design - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
Permitting																																						
SD44510	Permitting - SS 5/6 and SS 15/16 (OOL ST-2D)	180	02-Nov-19	29-Apr-20	Permitting - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
SD44510	Permitting - SS 5/6 and SS 15/16 (OOL ST-2D)	180	02-Nov-19	29-Apr-20	Permitting - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
Procurement																																						
SD44520	Procurement - SS 5/6 and SS 15/16 (OOL ST-2D)	219	02-Jun-20	06-Jan-21	Procurement - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
SD44520	Procurement - SS 5/6 and SS 15/16 (OOL ST-2D)	219	02-Jun-20	06-Jan-21	Procurement - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
Construction																																						
SD41410	Contractor Notice to Proceed (NTP) - SS 5/6 and SS 15/16 (OOL ST-2D)	1145	07-Jan-21	25-Feb-24	Contractor Notice to Proceed (NTP) - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
SD41410	Contractor Notice to Proceed (NTP) - SS 5/6 and SS 15/16 (OOL ST-2D)	0	07-Jan-21		Contractor Notice to Proceed (NTP) - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
SD43400	Construction - SS 5/6 and SS 15/16 (OOL ST-2D)	1117	07-Jan-21	28-Jan-24	Construction - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
SD41400	Substantial Completion (CD Compliance Date 11/16/25) - SS 5/6 and SS 15/16 (OOL ST-2D)	0		28-Jan-24	Substantial Completion (CD Compliance Date 11/16/25) - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
SD43840	Project Closeout - SS 5/6 and SS 15/16 (OOL ST-2D)	28	29-Jan-24	25-Feb-24*	Project Closeout - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
Project Administration																																						
SD44140	WASD Project Administration - SS 5/6 and SS 15/16 (OOL ST-2D)	2307	22-Feb-16 A	25-Feb-24	WASD Project Administration - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
SD44140	WASD Project Administration - SS 5/6 and SS 15/16 (OOL ST-2D)	2307	22-Feb-16 A	25-Feb-24	WASD Project Administration - SS 5/6 and SS 15/16 (OOL ST-2D)																																	
1.04 Chlorine Building																																						
Pre-Design																																						
SD11162	Pre-Design - SD Chlorine Building	181	15-Aug-17 A	16-Jul-18 A	Pre-Design - SD Chlorine Building																																	
SD11162	Pre-Design - SD Chlorine Building	181	15-Aug-17 A	16-Jul-18 A	Pre-Design - SD Chlorine Building																																	
Engineering Design																																						
SD20340	Technical Memo (TM) - SD Chlorine Building	312	17-Jul-18 A	10-Apr-19	Technical Memo (TM) - SD Chlorine Building																																	
SD20340	Technical Memo (TM) - SD Chlorine Building	60	17-Jul-18 A	17-Sep-18 A	Technical Memo (TM) - SD Chlorine Building																																	
SD20350	TM Review Period - SD Chlorine Building	14	18-Sep-18 A	27-Sep-18 A	TM Review Period - SD Chlorine Building																																	
SD43040	EPA Start Date for Engineering Design - SD Chlorine Building	0	01-Dec-18 A		EPA Start Date for Engineering Design - SD Chlorine Building																																	
SD20360	30% Design Submittal - SD Chlorine Building	35	28-Sep-18 A	04-Dec-18 A	30% Design Submittal - SD Chlorine Building																																	
SD20370	30% Design Review - SD Chlorine Building	10	05-Dec-18 A	04-Jan-19	30% Design Review - SD Chlorine Building																																	
SD45380	60% Design Submittal - SD Chlorine Building	30	01-Feb-19	02-Mar-19	60% Design Submittal - SD Chlorine Building																																	
SD20400	100% Design Submittal - SD Chlorine Building	312	17-Jul-18 A	20-Mar-19	100% Design Submittal - SD Chlorine Building																																	
SD10350	Engineering Design - SD Chlorine Building	18	03-Mar-19	20-Mar-19	Engineering Design - SD Chlorine Building																																	
SD40140	100% Design Review/Permit Ready Submittal - SD Chlorine Building	0		10-Apr-19*	100% Design Review/Permit Ready Submittal - SD Chlorine Building																																	
SD42060	EPA Compliance Date for Engineering Design - SD Chlorine Building	0		09-Apr-20	EPA Compliance Date for Engineering Design - SD Chlorine Building																																	
Permitting																																						
SD43050	EPA Start Date for Permitting - SD Chlorine Building	180	22-Mar-19	17-Sep-19	EPA Start Date for Permitting - SD Chlorine Building																																	
SD10380	Permitting - SD Chlorine Building	0	11-Apr-19*		Permitting - SD Chlorine Building																																	
SD42070	EPA Compliance Date for Permitting - SD Chlorine Building	0		09-Apr-20*	EPA Compliance Date for Permitting - SD Chlorine Building																																	
Procurement																																						
SD43430	Internal Bid Package Review - SD Chlorine Building	570	18-Sep-19	20-Sep-19	Internal Bid Package Review - SD Chlorine Building																																	
SD30490	Design Documents Sent to Procurement - SD Chlorine Building	3	18-Sep-19	20-Sep-19	Design Documents Sent to Procurement - SD Chlorine Building																																	
SD30490	Design Documents Sent to Procurement - SD Chlorine Building	0	21-Sep-19		Design Documents Sent to Procurement - SD Chlorine Building																																	
SD30500	Submit/Approve SBD Goals and Request to Advertise - SD Chlorine Building	60	21-Sep-19	19-Nov-19	Submit/Approve SBD Goals and Request to Advertise - SD Chlorine Building																																	
SD30510	Advertise Bid Package - SD Chlorine Building	60	20-Nov-19	18-Jan-20	Advertise Bid Package - SD Chlorine Building																																	
SD30520	Bid Solicitation Period - SD Chlorine Building	60	20-Nov-19	18-Jan-20	Bid Solicitation Period - SD Chlorine Building																																	
SD30530	Bids Due - SD Chlorine Building	0	19-Jan-20		Bids Due - SD Chlorine Building																																	
SD30540	Bid Review Period - SD Chlorine Building	30	19-Jan-20	17-Feb-20	Bid Review Period - SD Chlorine Building																																	
SD30550	Award Recommendation - SD Chlorine Building	0		17-Feb-20	Award Recommendation - SD Chlorine Building																																	
SD43060	EPA Start Date for Procurement - SD Chlorine Building - SD Chlorine Building	0	10-Apr-20*		EPA Start Date for Procurement - SD Chlorine Building - SD Chlorine Building																																	
SD10470	Procurement - SD Chlorine Building - SD Chlorine Building	210	21-Sep-19	17-Apr-20	Procurement - SD Chlorine Building - SD Chlorine Building																																	
SD30560	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Chlorine Building	60	18-Feb-20	17-Apr-20	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Chlorine Building																																	
SD42080	EPA Compliance Date for Procurement - SD Chlorine Building - SD Chlorine Building	0		09-Apr-21*	EPA Compliance Date for Procurement - SD Chlorine Building - SD Chlorine Building																																	
Construction																																						
SD10518	Contractor Notice to Proceed (NTP) - SD Chlorine Building	1207	18-Apr-20	07-Aug-23	Contractor Notice to Proceed (NTP) - SD Chlorine Building																																	
SD43070	EPA Start Date for Construction - SD Chlorine Building - SD Chlorine Building	0	18-Apr-20		EPA Start Date for Construction - SD Chlorine Building - SD Chlorine Building																																	
SD43070	EPA Start Date for Construction - SD Chlorine Building - SD Chlorine Building	0	10-Apr-21*		EPA Start Date for Construction - SD Chlorine Building - SD Chlorine Building																																	
SD10520	Construction - SD Chlorine Building - SD Chlorine Building	418	18-Apr-20	09-Jun-21	Construction - SD Chlorine Building - SD Chlorine Building																																	
SD44790	Commissioning - SD Chlorine Building	30	11-May-21	09-Jun-21	Commissioning - SD Chlorine Building																																	
SD10580	Substantial Completion (CD Compliance Date 8/07/23) - SD Chlorine Building	0		09-Jun-21*	Substantial Completion (CD Compliance Date 8/07/23) - SD Chlorine Building																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016												2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2								
SD20610	60% Design Review -SD FOG Removal Facility	15	08-Oct-15 A	22-Oct-15 A	%																																									
SD20620	100% Design Submittal - SD FOG Removal Facility	62	23-Oct-15 A	23-Dec-15 A	100%																																									
SD10000	Engineering Design - SD FOG Removal Facility	563	08-Jul-14 A	21-Jan-16 A	Engineering Design - SD FOG Removal Facility																																									
SD40170	100% Design Review/Permit Ready Submittal - SD FOG Removal Facility	29	24-Dec-15 A	21-Jan-16 A	100% Design Review/Permit Ready Submittal - SD FOG Removal Facility																																									
SD42260	EPA Compliance Date for Engineering Design - SD FOG Removal Facility	0	16-Feb-16 A	28-Oct-16 A	EPA Compliance Date for Engineering Design - SD FOG Removal Facility																																									
Permitting					353 10-Nov-15 A 28-Oct-16 A																																									
SD43250	EPA Start Date for Permitting - SD FOG Removal Facility	0	17-Feb-16 A	28-Oct-16 A	EPA Start Date for Permitting - SD FOG Removal Facility																																									
SD41770	FDEP Permit - SD FOG Removal Facility	241	10-Nov-15 A	07-Jul-16 A	FDEP Permit - SD FOG Removal Facility																																									
SD10020	Permitting - SD FOG Removal Facility	310	10-Nov-15 A	14-Sep-16 A	Permitting - SD FOG Removal Facility																																									
SD41760	RER Bldg Dept. Permit - SD FOG Removal Facility	225	03-Feb-16 A	14-Sep-16 A	RER Bldg Dept. Permit - SD FOG Removal Facility																																									
SD42270	EPA Compliance Date for Permitting - SD FOG Removal Facility	0	28-Oct-16 A	29-Jun-17 A	EPA Compliance Date for Permitting - SD FOG Removal Facility																																									
Procurement					788 03-May-15 A 29-Jun-17 A																																									
SD43260	EPA Start Date for Procurement - SD FOG Removal Facility	0	03-May-15 A	29-Jun-17 A	EPA Start Date for Procurement - SD FOG Removal Facility																																									
SD30230	Design Documents Sent to Procurement - SD FOG Removal Facility	0	05-Aug-16 A	05-Oct-16 A	Design Documents Sent to Procurement - SD FOG Removal Facility																																									
SD30240	Submit/Approve SBD Goals - SD FOG Removal Facility	62	05-Aug-16 A	05-Oct-16 A	Submit/Approve SBD Goals - SD FOG Removal Facility																																									
SD42910	OCI Reviews and Provides List - SD FOG Removal Facility	7	06-Oct-16 A	12-Oct-16 A	OCI Reviews and Provides List - SD FOG Removal Facility																																									
SD30250	Advertise Bid Package - SD FOG Removal Facility	0	13-Oct-16 A	01-Dec-16 A	Advertise Bid Package - SD FOG Removal Facility																																									
SD30260	Bid Solicitation Period - SD FOG Removal Facility	50	13-Oct-16 A	01-Dec-16 A	Bid Solicitation Period - SD FOG Removal Facility																																									
SD30270	Bids Due - SD FOG Removal Facility	0	01-Dec-16 A	14-Jan-17 A	Bids Due - SD FOG Removal Facility																																									
SD30280	Bid Review Period - SD FOG Removal Facility	44	02-Dec-16 A	14-Jan-17 A	Bid Review Period - SD FOG Removal Facility																																									
SD43470	OCI Reviews and Provides List (for Rebid) - SD FOG Removal Facility	32	15-Jan-17 A	15-Feb-17 A	OCI Reviews and Provides List (for Rebid) - SD FOG Removal Facility																																									
SD43480	Advertise Bid Package (for Rebid) - SD FOG Removal Facility	0	16-Feb-17 A	28-Mar-17 A	Advertise Bid Package (for Rebid) - SD FOG Removal Facility																																									
SD43490	Bid Solicitation Period (for Rebid) - SD FOG Removal Facility	41	16-Feb-17 A	28-Mar-17 A	Bid Solicitation Period (for Rebid) - SD FOG Removal Facility																																									
SD43500	Bids Due (for Rebid) - SD FOG Removal Facility	0	29-Mar-17 A	05-May-17 A	Bids Due (for Rebid) - SD FOG Removal Facility																																									
SD43510	Bid Review Period (for Rebid) - SD FOG Removal Facility	38	29-Mar-17 A	05-May-17 A	Bid Review Period (for Rebid) - SD FOG Removal Facility																																									
SD30290	Award Recommendation - SD FOG Removal Facility	0	05-May-17 A	15-May-17 A	Award Recommendation - SD FOG Removal Facility																																									
SD42280	EPA Compliance Date for Procurement - SD FOG Removal Facility**	0	15-May-17 A	29-Jun-17 A	EPA Compliance Date for Procurement - SD FOG Removal Facility**																																									
SD10070	Procurement - SD FOG Removal Facility	329	05-Aug-16 A	29-Jun-17 A	Procurement - SD FOG Removal Facility																																									
SD30300	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD FOG Removal Facility	55	06-May-17 A	29-Jun-17 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD FOG Removal Facility																																									
Construction					727 30-Jun-17 A 26-Jun-19																																									
SD10123	Contractor Notice to Proceed (NTP) - SD FOG Removal Facility	0	30-Jun-17 A	26-Jun-19	Contractor Notice to Proceed (NTP) - SD FOG Removal Facility																																									
SD43270	EPA Start Date for Construction - SD FOG Removal Facility	0	31-Jul-17 A	26-Jun-19	EPA Start Date for Construction - SD FOG Removal Facility																																									
SD44880	Commissioning (Part 1) - SD FOG Removal Facility	30	01-Jan-19*	30-Jan-19	Commissioning (Part 1) - SD FOG Removal Facility																																									
SD10130	Construction - SD FOG Removal Facility	329	30-Jun-17 A	28-Mar-19	Construction - SD FOG Removal Facility																																									
SD44840	Commissioning (Part 2) - SD FOG Removal Facility	30	27-Feb-19	28-Mar-19	Commissioning (Part 2) - SD FOG Removal Facility																																									
SD10270	Substantial Completion (CD Compliance Date 5/24/19) - SD FOG Removal Facility	0	28-Mar-19*	28-Mar-19*	Substantial Completion (CD Compliance Date 5/24/19) - SD FOG Removal Facility																																									
SD42290	EPA Compliance Date for Construction - SD FOG Removal Facility	0	24-May-19*	26-Jun-19*	EPA Compliance Date for Construction - SD FOG Removal Facility																																									
SD40080	Project Closeout - SD FOG Removal Facility	90	29-Mar-19	26-Jun-19*	Project Closeout - SD FOG Removal Facility																																									
Project Administration					1507 08-Jul-14 A 26-Jun-19																																									
SD35100	WASD Project Administration - SD FOG Removal Facility	1507	08-Jul-14 A	26-Jun-19	WASD Project Administration - SD FOG Removal Facility																																									
1.10 Odor Control					1900 25-Jan-18 A 25-Apr-23																																									
Pre-Design					381 25-Jan-18 A 04-Mar-19																																									
SD11182	Pre-Design (BODR) - SD Odor Control	180	25-Jan-18 A	14-Sep-18 A	Pre-Design (BODR) - SD Odor Control																																									
SD44770	Pre-Design (Remaining Scope of Work) - SD Odor Control	150	15-Sep-18 A	04-Mar-19	Pre-Design (Remaining Scope of Work) - SD Odor Control																																									
Engineering Design					488 14-Sep-18 A 03-Dec-19																																									
SD43280	EPA Start Date for Engineering Design - SD Odor Control	0	01-Dec-18 A	03-Dec-19	EPA Start Date for Engineering Design - SD Odor Control																																									
SD20630	Basis of Design Report (BODR) - SD Odor Control	96	15-Sep-18 A	21-Dec-18 A	Basis of Design Report (BODR) - SD Odor Control																																									
SD20640	BODR Review Period & Final BODR - SD Odor Control	24	24-Dec-18 A	15-Jan-19	BODR Review Period & Final BODR - SD Odor Control																																									
SD20650	30% Design Submittal - SD Odor Control	60	05-Mar-19*	03-May-19	30% Design Submittal - SD Odor Control																																									
SD20660	30% Design Review - SD Odor Control	10	04-May-19	13-May-19	30% Design Review - SD Odor Control																																									
SD42300	EPA Compliance Date for Engineering Design - SD Odor Control	0	27-Jun-19*	26-Jun-20	EPA Compliance Date for Engineering Design - SD Odor Control																																									
SD20670	60% Design Submittal - SD Odor Control	90	14-May-19	11-Aug-19	60% Design Submittal - SD Odor Control																																									
SD20680	60% Design Review -SD Odor Control	10	12-Aug-19	21-Aug-19	60% Design Review -SD Odor Control																																									
SD20690	100% Design Submittal - SD Odor Control	60	22-Aug-19	20-Oct-19	100% Design Submittal - SD Odor Control																																									
SD10360	Engineering Design - SD Odor Control	470	14-Sep-18 A	03-Dec-19	Engineering Design - SD Odor Control																																									
SD40180	100% Design Review/Permit Ready Submittal - SD Odor Control	44	21-Oct-19	03-Dec-19	100% Design Review/Permit Ready Submittal - SD Odor Control																																									
Permitting					365 28-Jun-19 26-Jun-20																																									
SD43290	EPA Start Date for Permitting - SD Odor Control	0	28-Jun-19*	26-Jun-20	EPA Start Date for Permitting - SD Odor Control																																									
SD10400	Permitting - SD Odor Control	180	04-Dec-19	31-May-20	Permitting - SD Odor Control																																									
SD42310	EPA Compliance Date for Permitting - SD Odor Control	0	26-Jun-20*	26-Jun-21	EPA Compliance Date for Permitting - SD Odor Control																																									
Procurement					482 02-Mar-20 26-Jun-21																																									
SD43460	Internal Bid Package Review - SD Odor Control	30	02-Mar-20	31-Mar-20	Internal Bid Package Review - SD Odor Control																																									
SD30730	Design Documents Sent to Procurement - SD Odor Control	0	01-Apr-20	31-Mar-20	Design Documents Sent to Procurement - SD Odor Control																																									
SD30740	Submit/Approve SBD Goals and Request to Advertise - SD Odor Control	60	01-Apr-20	30-May-20	Submit/Approve SBD Goals and Request to Advertise - SD Odor Control																																									
SD30750	Advertise Bid Package - SD Odor Control	0	31-May-20	29-Jul-20	Advertise Bid Package - SD Odor Control																																									
SD43300	EPA Start Date for Procurement - SD Odor Control	0	27-Jun-20*	26-Jun-21	EPA Start Date for Procurement - SD Odor Control																																									
SD30760	Bid Solicitation Period - SD Odor Control	60	31-May-20	29-Jul-20	Bid Solicitation Period - SD Odor Control																																									
SD30770	Bids Due - SD Odor Control	0	30-Jul-20	28-Aug-20	Bids Due - SD Odor Control																																									
SD30780	Bid Review Period - SD Odor Control	30	30-Jul-20	28-Aug-20	Bid Review Period - SD Odor Control																																									
SD30790	Award Recommendation - SD Odor Control	0	28-Aug-20	26-Dec-20	Award Recommendation - SD Odor Control																																									
SD10480	Procurement - SD Odor Control	270	01-Apr-20	26-Dec-20	Procurement - SD Odor Control																																									
SD30800	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Odor Control	120	29-Aug-20	26-Dec-20	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Odor Control																																									
SD42320	EPA Compliance Date for Procurement - SD Odor Control	0	26-Jun-21*	25-Apr-23	EPA Compliance Date for Procurement - SD Odor Control																																									
Construction					850 27-Dec-20 25-Apr-23																																									

Activity ID	Activity Name	Original Duration	Start	Finish	2016-2024																							
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
CD40960	Permitting Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements	330	30-Sep-15 A	24-Aug-16 A	Permitting Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements																							
CD41040	Procurement Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements	199	15-Apr-16 A	30-Oct-16 A	Procurement Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements																							
CD40750	Construction - Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements	540	31-Oct-16 A	29-Aug-19	Construction - Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements																							
CD85070	WASD Project Administration - Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements	1413	11-Jun-14 A	29-Aug-19	WASD Project Administration - Substations 15 & 16 (2.15) - CD Misc. Elect.Improvements																							
2.01 (6) Substations 17 & 18 (Project 2.19(2)a)																												
CD40890	Engineering Design Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements	456	04-Jun-15 A	02-Sep-16 A	Engineering Design Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements																							
CD40970	Permitting Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements	408	10-May-16 A	22-Jun-17 A	Permitting Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements																							
CD41050	Procurement Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements	293	16-Sep-16 A	06-Jul-17 A	Procurement Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements																							
CD40770	Construction Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements	660	20-Jul-17 A	24-Jul-19	Construction Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements																							
CD85080	WASD Project Administration - 17 & 18 (2.19) - CD Misc. Elect.Improvements	1437	04-Jun-15 A	24-Jul-19	WASD Project Administration - 17 & 18 (2.19) - CD Misc. Elect.Improvements																							
2.01 (7) Substations 7A, 8A, 9A, & 10A																												
CD85410	Pre-Design (TM) - Substations 7A, 8A, 9A, & 10A	97	17-Oct-16 A	09-Aug-17 A	Pre-Design (TM) - Substations 7A, 8A, 9A, & 10A																							
CD85420	Pre-Design (Remaining Scope of Work) - Substations 7A, 8A, 9A, & 10A	150	23-Dec-17 A	17-Sep-18 A	Pre-Design (Remaining Scope of Work) - Substations 7A, 8A, 9A, & 10A																							
CD85430	Draft Technical Memo Submittal - Substations 7A, 8A, 9A, & 10A	97	09-Aug-17 A	27-Nov-17 A	Draft Technical Memo Submittal - Substations 7A, 8A, 9A, & 10A																							
CD85440	Final Technical Memo Submittal - Substations 7A, 8A, 9A, & 10A	30	28-Nov-17 A	22-Dec-17 A	Final Technical Memo Submittal - Substations 7A, 8A, 9A, & 10A																							
CD85830	Basis of Design Report (BODR) - Substations 7A, 8A, 9A, & 10A	45	19-Sep-18 A	19-Nov-18 A	Basis of Design Report (BODR) - Substations 7A, 8A, 9A, & 10A																							
CD85840	Review/Revise BODR - Substations 7A, 8A, 9A, & 10A	18	20-Nov-18 A	07-Dec-18 A	Review/Revise BODR - Substations 7A, 8A, 9A, & 10A																							
CD85450	60% Design Submittal - Substations 7A, 8A, 9A, & 10A	52	08-Dec-18 A	28-Jan-19	60% Design Submittal - Substations 7A, 8A, 9A, & 10A																							
CD85460	60% Design Review - Substations 7A, 8A, 9A, & 10A	15	29-Jan-19	12-Feb-19	60% Design Review - Substations 7A, 8A, 9A, & 10A																							
CD85470	100% Design Submittal - Substations 7A, 8A, 9A, & 10A	66	13-Feb-19	19-Apr-19	100% Design Submittal - Substations 7A, 8A, 9A, & 10A																							
CD40840	Engineering Design - Substations 7A, 8A, 9A, & 10A	180	09-Aug-17 A	09-Jun-19	Engineering Design - Substations 7A, 8A, 9A, & 10A																							
CD85480	100% Design Review/Permit Ready Submittal - Substations 7A, 8A, 9A, & 10A	51	20-Apr-19	09-Jun-19	100% Design Review/Permit Ready Submittal - Substations 7A, 8A, 9A, & 10A																							
CD40920	Permitting - Substations 7A, 8A, 9A, & 10A	90	10-Jun-19	07-Sep-19	Permitting - Substations 7A, 8A, 9A, & 10A																							
CD85590	Design Documents to Procurement - Substations 7A, 8A, 9A, & 10A	0	08-Sep-19	05-Mar-20	Design Documents to Procurement - Substations 7A, 8A, 9A, & 10A																							
CD85600	Submit/Approve SBD Goals and Request to Advertise - Substations 7A, 8A, 9A, & 10A	30	08-Sep-19	07-Oct-19	Submit/Approve SBD Goals and Request to Advertise - Substations 7A, 8A, 9A, & 10A																							
CD85610	Advertise Bid Package - Substations 7A, 8A, 9A, & 10A	0	08-Oct-19		Advertise Bid Package - Substations 7A, 8A, 9A, & 10A																							
CD85620	Bid Solicitation Period - Substations 7A, 8A, 9A, & 10A	60	08-Oct-19	06-Dec-19	Bid Solicitation Period - Substations 7A, 8A, 9A, & 10A																							
CD85630	Bids Due - Substations 7A, 8A, 9A, & 10A	0	07-Dec-19		Bids Due - Substations 7A, 8A, 9A, & 10A																							
CD85640	Bid Review Period - Substations 7A, 8A, 9A, & 10A	30	07-Dec-19	05-Jan-20	Bid Review Period - Substations 7A, 8A, 9A, & 10A																							
CD85650	Award Recommendation - Substations 7A, 8A, 9A, & 10A	0		05-Jan-20	Award Recommendation - Substations 7A, 8A, 9A, & 10A																							
CD41000	Procurement - Substations 7A, 8A, 9A, & 10A	180	08-Sep-19	05-Mar-20	Procurement - Substations 7A, 8A, 9A, & 10A																							
CD85660	Final Approvals (BCC, Mayor, Risk Mgmt.) - Substations 7A, 8A, 9A, & 10A	60	06-Jan-20	05-Mar-20	Final Approvals (BCC, Mayor, Risk Mgmt.) - Substations 7A, 8A, 9A, & 10A																							
CD85670	Contractor Notice to Proceed (NTP) - Substations 7A, 8A, 9A, & 10A	0	06-Mar-20		Contractor Notice to Proceed (NTP) - Substations 7A, 8A, 9A, & 10A																							
CD40720	Construction - Substations 7A, 8A, 9A, & 10A	400	06-Mar-20	09-Apr-21	Construction - Substations 7A, 8A, 9A, & 10A																							
CD86200	Commissioning - Substations 7A, 8A, 9A, & 10A	30	11-Mar-21	09-Apr-21	Commissioning - Substations 7A, 8A, 9A, & 10A																							
CD85580	Substantial Completion (CD Compliance Date 6/14/21) - Substations 7A, 8A, 9A, & 10A	0		09-Apr-21*	Substantial Completion (CD Compliance Date 6/14/21) - Substations 7A, 8A, 9A, & 10A																							
CD40000	Project Closeout - Substations 7A, 8A, 9A, & 10A	90	10-Apr-21	08-Jul-21*	Project Closeout - Substations 7A, 8A, 9A, & 10A																							
CD85090	WASD Project Administration - Substations 7A, 8A, 9A, & 10A	850	09-Aug-17 A	09-Apr-21	WASD Project Administration - Substations 7A, 8A, 9A, & 10A																							
2.02 Building Improvements																												
CD82380	EPA Start Date for Engineering Design - CD Repairs to Various Buildings**	0	01-May-14 A		EPA Start Date for Engineering Design - CD Repairs to Various Buildings**																							
CD42460	EPA Compliance Date for Engineering Design - CD Repairs to Various Buildings**	0		18-Oct-14 A	EPA Compliance Date for Engineering Design - CD Repairs to Various Buildings**																							
CD10130	Engineering Design - CD Repairs to Various Buildings	772	26-Mar-14 A	05-May-16 A	Engineering Design - CD Repairs to Various Buildings																							
CD82390	EPA Start Date for Permitting - CD Repairs to Various Buildings	0	19-Oct-14 A		EPA Start Date for Permitting - CD Repairs to Various Buildings																							
CD10290	Permitting - CD Repairs to Various Buildings	620	13-Oct-14 A	23-Jun-16 A	Permitting - CD Repairs to Various Buildings																							
CD80310	EPA Compliance Date for Permitting - CD Repairs to Various Buildings	0		27-Aug-16 A	EPA Compliance Date for Permitting - CD Repairs to Various Buildings																							
CD82400	EPA Start Date for Procurement - CD Repairs to Various Buildings	0	19-Oct-15 A		EPA Start Date for Procurement - CD Repairs to Various Buildings																							
CD10530	Procurement - CD Repairs to Various Buildings	933	03-Jun-14 A	21-Dec-16 A	Procurement - CD Repairs to Various Buildings																							
CD80320	EPA Compliance Date for Procurement - CD Repairs to Various Buildings	0		31-Jan-17 A	EPA Compliance Date for Procurement - CD Repairs to Various Buildings																							
CD82410	EPA Start Date for Construction - CD Repairs to Various Buildings	0	18-Oct-16 A		EPA Start Date for Construction - CD Repairs to Various Buildings																							
CD80330	EPA Compliance Date for Construction - CD Repairs to Various Buildings	0		26-Sep-19*	EPA Compliance Date for Construction - CD Repairs to Various Buildings																							
CD10740	Construction - CD Repairs to Various Buildings	1162	16-Oct-14 A	08-Dec-19	Construction - CD Repairs to Various Buildings																							
CD10910	Substantial Completion (CD Compliance Date 9/26/19) - CD Repairs to Various Buildings	0		08-Dec-19*	Substantial Completion (CD Compliance Date 9/26/19) - CD Repairs to Various Buildings																							
2.02 (1)a CD Building Improvements - Admin Asbestos Abatement																												
CD11002	Engineering Design - CD Admin Asbestos Abatement	198	26-Mar-14 A	10-Oct-14 A	Engineering Design - CD Admin Asbestos Abatement																							
CD11012	Permitting - CD Admin Asbestos Abatement	80	13-Oct-14 A	31-Dec-14 A	Permitting - CD Admin Asbestos Abatement																							
		256	03-Jun-14 A	14-Feb-15 A																								

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CD21720	Bid & Award Asbestos Abatement (Phase 1) - CD Admin Asbestos Abatement	64	03-Jun-14 A	05-Aug-14 A	Asbestos Abatement (Phase 1) - CD Admin Asbestos Abatement																																	
CD84270	Procurement - CD Admin Asbestos Abatement	257	03-Jun-14 A	14-Feb-15 A	Admin Asbestos Abatement																																	
CD30000	Bid & Award Asbestos Abatement (Phase 2) - CD Admin Asbestos Abatement	62	15-Dec-14 A	14-Feb-15 A	Asbestos Abatement (Phase 2) - CD Admin Asbestos Abatement																																	
Construction																																						
CD21170	Asbestos Abatement (Phase 1) - CD Admin Asbestos Abatement	60	16-Oct-14 A	14-Dec-14 A	Asbestos Abatement (Phase 1) - CD Admin Asbestos Abatement																																	
CD84280	Construction - CD Admin Asbestos Abatement	229	16-Oct-14 A	01-Jun-15 A	Construction - CD Admin Asbestos Abatement																																	
CD30010	Asbestos Abatement (Phase 2) - CD Admin Asbestos Abatement	39	24-Apr-15 A	01-Jun-15 A	Asbestos Abatement (Phase 2) - CD Admin Asbestos Abatement																																	
Project Administration																																						
CD85100	WASD Project Administration - CD Admin Asbestos Abatement	432	26-Mar-14 A	01-Jun-15 A	Project Administration - CD Admin Asbestos Abatement																																	
2.02 (1)b CD Administration Building Interior Improvements																																						
Engineering Design																																						
CD11004	Engineering Design (Remodel) - CD Administration Interior Improvements	66	26-Jan-15 A	02-Apr-15 A	Engineering Design (Remodel) - CD Administration Interior Improvements																																	
Permitting																																						
CD11014	Permitting (Remodel) - CD Administration Building Interior Improvements	195	02-Apr-15 A	14-Oct-15 A	Permitting (Remodel) - CD Administration Building Interior Improvements																																	
Procurement																																						
CD30860	Design Documents Sent to Procurement - CD Administration Building Interior Improvements	387	02-Nov-15 A	23-Nov-16 A	Design Documents Sent to Procurement - CD Administration Building Interior Improvements																																	
CD30870	Submit/Approve SBD Goals and Request to Advertise - CD Administration Building Interior Improvements	0	02-Nov-15 A	04-Feb-16 A	Submit/Approve SBD Goals and Request to Advertise - CD Administration Building Interior Improvements																																	
CD30880	Advertise Bid Package - CD Administration Building Interior Improvements	95	02-Nov-15 A	04-Feb-16 A	Advertise Bid Package - CD Administration Building Interior Improvements																																	
CD30890	Bid Solicitation Period - CD Administration Building Interior Improvements	0	04-Mar-16 A	02-Jul-16 A	Bid Solicitation Period - CD Administration Building Interior Improvements																																	
CD30900	Bids Due - CD Administration Building Interior Improvements	120	05-Mar-16 A	02-Jul-16 A	Bids Due - CD Administration Building Interior Improvements																																	
CD30910	Bid Review Period - CD Administration Building Interior Improvements	0	03-Jul-16 A	18-Aug-16 A	Bid Review Period - CD Administration Building Interior Improvements																																	
CD80340	Rebid Solicitation Period - CD Administration Building Interior Improvements	47	03-Jul-16 A	18-Aug-16 A	Rebid Solicitation Period - CD Administration Building Interior Improvements																																	
CD80350	Rebids Due - CD Administration Building Interior Improvements	34	19-Aug-16 A	21-Sep-16 A	Rebids Due - CD Administration Building Interior Improvements																																	
CD80360	Rebid Review Period - CD Administration Building Interior Improvements	0	22-Sep-16 A	18-Oct-16 A	Rebid Review Period - CD Administration Building Interior Improvements																																	
CD30920	Award Recommendation - CD Administration Building Interior Improvements	27	22-Sep-16 A	18-Oct-16 A	Award Recommendation - CD Administration Building Interior Improvements																																	
CD11022	Procurement - CD Administration Building Interior Improvements	0	18-Oct-16 A	18-Oct-16 A	Procurement - CD Administration Building Interior Improvements																																	
CD30930	Final Approvals - CD Administration Building Interior Improvements	388	02-Nov-15 A	23-Nov-16 A	Final Approvals - CD Administration Building Interior Improvements																																	
Construction																																						
CD11031	Contractor Notice to Proceed (NTP) - CD Administration Building Interior Improvements	36	19-Oct-16 A	23-Nov-16 A	Contractor Notice to Proceed (NTP) - CD Administration Building Interior Improvements																																	
CD11032	Construction (Remodel) - CD Administration Building Interior Improvements	451	22-Dec-16 A	15-Nov-18 A	Construction (Remodel) - CD Administration Building Interior Improvements																																	
CD11042	Substantial Completion (CD Compliance Date 9/26/19) - CD Administration Building Interior Improvements	0	22-Dec-16 A	17-Jan-18 A	Substantial Completion (CD Compliance Date 9/26/19) - CD Administration Building Interior Improvements																																	
CD40010	Project Closeout - CD Administration Building	30	18-Jan-18 A	15-Nov-18 A	Project Closeout - CD Administration Building																																	
Project Administration																																						
CD33940	WASD Project Administration - CD Administration Building	1363	26-Mar-14 A	15-Nov-18 A	WASD Project Administration - CD Administration Building																																	
2.02 (1)c CD Misc. Roof Improvements																																						
Procurement																																						
CD30070	Procurement - CD Misc. Roof Repairs	627	31-Jan-15 A	19-Oct-16 A	Procurement - CD Misc. Roof Repairs																																	
Construction																																						
CD30020	Switchgear Building Roof Repairs - CD Misc. Roof Repairs	478	31-Jan-15 A	23-May-16 A	Switchgear Building Roof Repairs - CD Misc. Roof Repairs																																	
CD33670	Construction - CD Misc. Roof Repairs	479	31-Jan-15 A	23-May-16 A	Construction - CD Misc. Roof Repairs																																	
CD30030	Maintenance Building Roof Repairs - CD Misc. Roof Repairs	557	11-Apr-15 A	19-Oct-16 A	Maintenance Building Roof Repairs - CD Misc. Roof Repairs																																	
CD30040	Operation & Control Building Roof Repairs - CD Misc. Roof Repairs	47	11-Apr-15 A	27-May-15 A	Operation & Control Building Roof Repairs - CD Misc. Roof Repairs																																	
Project Administration																																						
CD85110	WASD Project Administration - CD Misc. Roof Repairs	150	23-May-16 A	19-Oct-16 A	WASD Project Administration - CD Misc. Roof Repairs																																	
2.02 (2) Remodel Bathrooms, Locker Rooms & Showers																																						
Pre-Design																																						
CD11242	Pre-Design - CD Misc. Building Improvements	176	19-Dec-14 A	13-Jun-15 A	Pre-Design - CD Misc. Building Improvements																																	
Engineering Design																																						
CD32480	Engineering Design Phase I - CD Misc. Building Improvements	177	19-Dec-14 A	13-Jun-15 A	Engineering Design Phase I - CD Misc. Building Improvements																																	
CD11104	Negotiate Phase II Design - CD Misc. Building Improvements	326	14-Jun-15 A	22-Dec-15 A	Negotiate Phase II Design - CD Misc. Building Improvements																																	
CD11102	Engineering Design (Summary) - CD Misc. Building Improvements	44	14-Jun-15 A	27-Jul-15 A	Engineering Design (Summary) - CD Misc. Building Improvements																																	
CD32490	Engineering Design Phase II - CD Misc. Building Improvements	51	27-Jul-15 A	15-Sep-15 A	Engineering Design Phase II - CD Misc. Building Improvements																																	
Permitting																																						
CD11112	Permitting - CD Misc. Building Improvements	0	14-Jun-15 A	22-Dec-15 A	Permitting - CD Misc. Building Improvements																																	
CD80380	COM Permit - CD Misc. Building Improvements	98	16-Sep-15 A	22-Dec-15 A	COM Permit - CD Misc. Building Improvements																																	
CD80370	RER DERM Permit - CD Misc. Building Improvements	997	05-May-16 A	23-Jan-19	RER DERM Permit - CD Misc. Building Improvements																																	
CD85910	Dry-Run Permit - CD Misc. Building Improvements	50	05-May-16 A	23-Jun-16 A	Dry-Run Permit - CD Misc. Building Improvements																																	
Procurement																																						
CD30340	Design Documents Sent to Procurement - CD Misc. Building Improvements	49	06-May-16 A	23-Jun-16 A	Design Documents Sent to Procurement - CD Misc. Building Improvements																																	
CD30350	Submit/Approve SBD Goals and Request to Advertise - CD Misc. Building Improvements	15	09-Jun-16 A	23-Jun-16 A	Submit/Approve SBD Goals and Request to Advertise - CD Misc. Building Improvements																																	
CD30360	Advertise Bid Package - CD Misc. Building Improvements	180	27-Jul-18 A	23-Jan-19	Advertise Bid Package - CD Misc. Building Improvements																																	
CD30370	Bid Solicitation Period - CD Misc. Building Improvements	1116	23-Jun-16 A	11-Jun-19	Bid Solicitation Period - CD Misc. Building Improvements																																	
CD30380	Bids Due - CD Misc. Building Improvements	0	22-Aug-16 A	11-Jun-19	Bids Due - CD Misc. Building Improvements																																	
CD30390	Bid Review Period - CD Misc. Building Improvements	7	22-Aug-16 A	28-Aug-16 A	Bid Review Period - CD Misc. Building Improvements																																	
CD30400	Award Recommendation - CD Misc. Building Improvements	0	29-Aug-16 A	18-Oct-16 A	Award Recommendation - CD Misc. Building Improvements																																	
CD11122	Procurement - CD Misc. Building Improvements	51	29-Aug-16 A	18-Oct-16 A	Procurement - CD Misc. Building Improvements																																	
CD30410	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Misc. Building Improvements	9	18-Oct-16 A	26-Oct-16 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Misc. Building Improvements																																	
CD86420	Procurement - CD Misc. Building Improvements	210	14-Nov-18 A	11-Jun-19	Procurement - CD Misc. Building Improvements																																	
Construction																																						
CD30420	Contractor Notice to Proceed (NTP) - CD Misc. Building Improvements	182	23-Jun-16 A	21-Dec-16 A	Contractor Notice to Proceed (NTP) - CD Misc. Building Improvements																																	
CD11132	Construction - CD Misc. Building Improvements	71	27-Oct-16 A	05-Jan-17 A	Construction - CD Misc. Building Improvements																																	
CD85940	Construction Activities Stopped - CD Misc. Building Improvements	210	14-Nov-18 A	11-Jun-19	Construction Activities Stopped - CD Misc. Building Improvements																																	
CD85860	100% NFC Draft Submittal - CD Misc. Building Improvements	0	18-Jan-17 A	31-Oct-17 A	100% NFC Draft Submittal - CD Misc. Building Improvements																																	
CD85880	100% NFC Review - CD Misc. Building Improvements	28	16-Apr-18 A	15-May-18 A	100% NFC Review - CD Misc. Building Improvements																																	
CD85890	100% Permit Ready Submittal - CD Misc. Building Improvements	7	17-May-18 A	24-May-18 A	100% Permit Ready Submittal - CD Misc. Building Improvements																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016												2017				2018				2019				2020				2021				2022				2023				2024							
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2										
CD32560	Construction - CD Oxygenation Trains Plant 1	1549	02-Dec-13 A	22-Jun-18 A	Construction - CD Oxygenation Trains Plant 1																																															
CD10940	Structural Rehab Train #3 - CD Oxygenation Trains Plant 1	105	13-Feb-18 A	22-Jun-18 A	Structural Rehab Train #3 - CD Oxygenation Trains Plant 1																																															
CD11050	Substantial Completion (CD Compliance Date 4/12/19) - CD Oxygenation Trains Plant 1	0		22-Jun-18 A	Substantial Completion (CD Compliance Date 4/12/19) - CD Oxygenation Trains Plant 1																																															
CD81890	Project Closeout - CD Oxygenation Trains Plant 1	90	23-Jun-18 A	27-Jul-18 A	Project Closeout - CD Oxygenation Trains Plant 1																																															
CD80500	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 1	0		12-Apr-19*	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 1																																															
Project Administration		2556	01-Mar-11 A	22-Jun-18 A	WASD Project Administration - CD Oxygenation Trains Plant 1																																															
CD33980	WASD Project Administration - CD Oxygenation Trains Plant 1	2556	01-Mar-11 A	22-Jun-18 A	WASD Project Administration - CD Oxygenation Trains Plant 1																																															
2.06 Oxygenation Trains Plant 2		4063	01-Mar-11 A	14-Apr-22	2.06 Oxygenation Trains Plant 2																																															
Pre-Design		230	05-Jul-16 A	20-Feb-17 A	Pre-Design - CD Oxygenation Trains Plant 2																																															
CD81270	Pre-Design - CD Oxygenation Trains Plant 2	231	05-Jul-16 A	20-Feb-17 A	Pre-Design - CD Oxygenation Trains Plant 2																																															
Engineering Design		2356	01-Mar-11 A	12-Aug-17 A	Engineering Design - CD Oxygenation Trains Plant 2																																															
CD10610	Engineering Design - CD Oxygenation Trains Plant 2	63	01-Mar-11 A	02-May-11 A	Engineering Design - CD Oxygenation Trains Plant 2																																															
CD82500	EPA Start Date for Engineering Design - CD Oxygenation Trains Plant 2	0		01-Jun-16 A	EPA Start Date for Engineering Design - CD Oxygenation Trains Plant 2																																															
CD80510	EPA Compliance Date for Engineering Design - CD Oxygenation Trains Plant 2**	0		02-Sep-16 A	EPA Compliance Date for Engineering Design - CD Oxygenation Trains Plant 2**																																															
CD81280	Engineering Design (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2	173	21-Feb-17 A	12-Aug-17 A	Engineering Design (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2																																															
CD81290	Engineering Design (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2	173	21-Feb-17 A	12-Aug-17 A	Engineering Design (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2																																															
Permitting		2378	01-Mar-11 A	02-Sep-17 A	Permitting - CD Oxygenation Trains Plant 2																																															
CD10690	Permitting - CD Oxygenation Trains Plant 2	62	01-Mar-11 A	02-May-11 A	Permitting - CD Oxygenation Trains Plant 2																																															
CD82510	EPA Start Date for Permitting - CD Oxygenation Trains Plant 2	0		03-Sep-16 A	EPA Start Date for Permitting - CD Oxygenation Trains Plant 2																																															
CD80520	EPA Compliance Date for Permitting - CD Oxygenation Trains Plant 2	0		02-Sep-17 A	EPA Compliance Date for Permitting - CD Oxygenation Trains Plant 2																																															
Procurement		3086	02-May-11 A	12-Oct-19	Procurement - CD Oxygenation Trains Plant 2																																															
CD81310	Procurement (Mixers) - CD Oxygenation Trains Plant 2	517	02-Sep-13 A	31-Jan-15 A	Procurement (Mixers) - CD Oxygenation Trains Plant 2																																															
CD82520	EPA Start Date for Procurement - CD Oxygenation Trains Plant 2	0		03-Sep-17 A	EPA Start Date for Procurement - CD Oxygenation Trains Plant 2																																															
CD80530	EPA Compliance Date for Procurement - CD Oxygenation Trains Plant 2	0		16-Nov-18 A	EPA Compliance Date for Procurement - CD Oxygenation Trains Plant 2																																															
CD81300	Procurement (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2	90	20-Oct-17 A	13-May-19	Procurement (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2																																															
CD10900	Procurement - CD Oxygenation Trains Plant 2	2754	02-May-11 A	12-Oct-19	Procurement - CD Oxygenation Trains Plant 2																																															
CD81320	Procurement (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2	90	15-Jul-19*	12-Oct-19	Procurement (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2																																															
Construction		2629	02-Feb-15 A	14-Apr-22	Construction - CD Oxygenation Trains Plant 2																																															
CD11091	Install Mixers Train #1 - CD Oxygenation Trains Plant 2	24	11-Jan-16 A	03-Feb-16 A	Install Mixers Train #1 - CD Oxygenation Trains Plant 2																																															
CD12161	Install Mixers Trains #2-4 - CD Oxygenation Trains Plant 2	182	01-Sep-15 A	29-Feb-16 A	Install Mixers Trains #2-4 - CD Oxygenation Trains Plant 2																																															
CD11280	Structural Rehab Train #3 - CD Oxygenation Trains Plant 2	113	09-Nov-15 A	29-Feb-16 A	Structural Rehab Train #3 - CD Oxygenation Trains Plant 2																																															
CD11090	Structural Rehab Train #1 - CD Oxygenation Trains Plant 2	113	17-Jan-17 A	09-May-17 A	Structural Rehab Train #1 - CD Oxygenation Trains Plant 2																																															
CD82530	EPA Start Date for Construction - CD Oxygenation Trains Plant 2	0		16-Dec-18 A	EPA Start Date for Construction - CD Oxygenation Trains Plant 2																																															
CD30060	Electrical Equip. / Expand Structure - CD Oxygenation Trains Plant 2	1034	02-Feb-15 A	31-Dec-18	Electrical Equip. / Expand Structure - CD Oxygenation Trains Plant 2																																															
CD11190	Structural Rehab Train #2 - CD Oxygenation Trains Plant 2	155	14-May-19	15-Oct-19	Structural Rehab Train #2 - CD Oxygenation Trains Plant 2																																															
CD32570	Construction - CD Oxygenation Trains Plant 2	1192	09-Nov-15 A	15-Mar-20	Construction - CD Oxygenation Trains Plant 2																																															
CD11380	Structural Rehab Train #4 - CD Oxygenation Trains Plant 2	155	13-Oct-19	15-Mar-20	Structural Rehab Train #4 - CD Oxygenation Trains Plant 2																																															
CD11450	Substantial Completion (CD Compliance Date 4/14/22) - CD Oxygenation Trains Plant 2	0		15-Mar-20*	Substantial Completion (CD Compliance Date 4/14/22) - CD Oxygenation Trains Plant 2																																															
CD81900	Project Closeout - CD Oxygenation Trains Plant 2	30	16-Mar-20	14-Apr-20*	Project Closeout - CD Oxygenation Trains Plant 2																																															
CD80580	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 2	0		14-Apr-22*	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 2																																															
Project Administration		2584	01-Mar-11 A	15-Mar-20	WASD Project Administration - CD Oxygenation Trains Plant 2																																															
CD33990	WASD Project Administration - CD Oxygenation Trains Plant 2	2584	01-Mar-11 A	15-Mar-20	WASD Project Administration - CD Oxygenation Trains Plant 2																																															
2.07 Secondary Clarifiers Plant 1		3385	11-Jul-15 A	15-Aug-26	2.07 Secondary Clarifiers Plant 1																																															
Engineering Design		1249	12-Apr-18 A	05-Oct-21	Engineering Design - CD Secondary Clarifiers Plant 1																																															
CD11350	Engineering Design - CD Secondary Clarifiers Plant 1	455	12-Apr-18 A	04-Sep-19	Engineering Design - CD Secondary Clarifiers Plant 1																																															
CD82540	EPA Start Date for Engineering Design - CD Secondary Clarifiers Plant 1	0		01-Apr-21*	EPA Start Date for Engineering Design - CD Secondary Clarifiers Plant 1																																															
CD80590	EPA Compliance Date for Engineering Design - CD Secondary Clarifiers Plant 1	0		05-Oct-21*	EPA Compliance Date for Engineering Design - CD Secondary Clarifiers Plant 1																																															
Permitting		1127	05-Sep-19	05-Oct-22	Permitting - CD Secondary Clarifiers Plant 1																																															
CD11400	Permitting - CD Secondary Clarifiers Plant 1	180	05-Sep-19	02-Mar-20	Permitting - CD Secondary Clarifiers Plant 1																																															
CD82550	EPA Start Date for Permitting - CD Secondary Clarifiers Plant 1	0		06-Oct-21*	EPA Start Date for Permitting - CD Secondary Clarifiers Plant 1																																															
CD80600	EPA Compliance Date for Permitting - CD Secondary Clarifiers Plant 1	0		05-Oct-22*	EPA Compliance Date for Permitting - CD Secondary Clarifiers Plant 1																																															
Procurement		2007	17-Jul-15 A	05-Oct-23	Procurement - CD Secondary Clarifiers Plant 1																																															
CD11530	Procurement - CD Secondary Clarifiers Plant 1	769	17-Jul-15 A	29-Sep-21	Procurement - CD Secondary Clarifiers Plant 1																																															
CD82560	EPA Start Date for Procurement - CD Secondary Clarifiers Plant 1	0		06-Oct-22*	EPA Start Date for Procurement - CD Secondary Clarifiers Plant 1																																															
CD80610	EPA Compliance Date for Procurement - CD Secondary Clarifiers Plant 1	0		05-Oct-23*	EPA Compliance Date for Procurement - CD Secondary Clarifiers Plant 1																																															
Construction		2283	11-Jul-15 A	15-Aug-26	Construction - CD Secondary Clarifiers Plant 1																																															
CD82570	EPA Start Date for Construction - CD Secondary Clarifiers Plant 1	0		06-Oct-23*	EPA Start Date for Construction - CD Secondary Clarifiers Plant 1																																															
CD11598	Construction - CD Secondary Clarifiers Plant 1	1045	11-Jul-15 A	07-Nov-23	Construction - CD Secondary Clarifiers Plant 1																																															
CD85370	Substantial Completion (CD Compliance Date 8/15/26) - CD Secondary Clarifiers Plant 1	0		07-Nov-23*	Substantial Completion (CD Compliance Date 8/15/26) - CD Secondary Clarifiers Plant 1																																															
CD80840	EPA Compliance Date for Construction - CD Secondary Clarifiers Plant 1	0		15-Aug-26*	EPA Compliance Date for Construction - CD Secondary Clarifiers Plant 1																																															
Project Administration		1986	31-Jul-18 A	05-Feb-24	WASD Project Administration - CD Secondary Clarifiers Plant 1																																															
CD34000	WASD Project Administration - CD Secondary Clarifiers Plant 1	1986	31-Jul-18 A	05-Feb-24	WASD Project Administration - CD Secondary Clarifiers Plant 1																																															
2.07 (1) Secondary Clarifiers Plant 1		2464	10-May-17 A	05-Feb-24	2.07 (1) Secondary Clarifiers Plant 1																																															
Pre-Design		181	10-May-17 A	30-Jul-18 A	Pre-Design - CD Secondary Clarifiers Plant 1																																															
CD11252	Pre-Design - CD Secondary Clarifiers Plant 1	181	10-May-17 A	30-Jul-18 A	Pre-Design - CD Secondary Clarifiers Plant 1																																															
Engineering Design		398	31-Jul-18 A	04-Sep-19	Engineering Design - CD Secondary Clarifiers Plant 1																																															
CD20700	Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 1	60	31-Jul-18 A	09-Jan-19	Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 1																																															
CD20710	BODR Review Period - CD Secondary Clarifiers Plant 1	14	10-Jan-19	23-Jan-19	BODR Review Period - CD Secondary Clarifiers Plant 1																																															
CD20720	30% Design Submittal - CD Secondary Clarifiers Plant 1	55	24-Jan-19	19-Mar-19	30% Design Submittal - CD Secondary Clarifiers Plant 1																																															
CD20730	30% Design Review - CD Secondary Clarifiers Plant 1	13	20-Mar-19	01-Apr-19	30% Design Review - CD Secondary Clarifiers Plant 1																																															
CD20740	60% Design Submittal - CD Secondary Clarifiers Plant 1	60	02-Apr-19	31-May-19	60% Design Submittal - CD Secondary Clarifiers Plant 1																																															
CD20750	60% Design Review - CD Secondary Clarifiers Plant 1	10	01-Jun-19	10-Jun-19	60% Design Review - CD Secondary Clarifiers Plant 1																																															
CD20760	100% Design Submittal - CD Secondary Clarifiers Plant 1	56	11-Jun-19	05-Aug-19	100% Design Submittal - CD Secondary Clarifiers Plant 1																																															
CD84310	Engineering Design - CD Secondary Clarifiers Plant 1	398	31-Jul-18 A	04-Sep-19	Engineering Design - CD Secondary Clarifiers Plant 1																																															
CD40340	100% Design Review/Permit Ready Submittal - CD Secondary Clarifiers Plant 1	30	06-Aug-19	04-Sep-19	100% Design Review/Permit Ready Submittal - CD Secondary Clarifiers Plant 1																																															

Activity ID	Activity Name	Original Duration	Start	Finish	2016-2024																							
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
CD34010	WASD Project Administration - CD Secondary Clarifiers Plant 2	2705	16-Mar-16 A	09-Nov-23	[Gantt bar for WASD Project Administration - CD Secondary Clarifiers Plant 2]																							
2.08 (1) Secondary Clarifiers Plant 2					[Summary bar for 2.08 (1) Secondary Clarifiers Plant 2]																							
Pre-Design					[Summary bar for Pre-Design phase]																							
CD11262	Pre-Design -CD Secondary Clarifiers Plant 2	244	15-Jul-15 A	15-Mar-16 A	[Gantt bar for Pre-Design -CD Secondary Clarifiers Plant 2]																							
Engineering Design					[Summary bar for Engineering Design phase]																							
CD20830	Draft Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 2	245	15-Jul-15 A	15-Mar-16 A	[Gantt bar for Draft Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 2]																							
CD20770	BODR Review Period - CD Secondary Clarifiers Plant 2	94	16-Mar-16 A	17-Jun-16 A	[Gantt bar for BODR Review Period - CD Secondary Clarifiers Plant 2]																							
CD70960	Final Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 2	7	18-Jun-16 A	24-Jun-16 A	[Gantt bar for Final Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 2]																							
CD20780	30% Design Submittal - CD Secondary Clarifiers Plant 2	13	25-Jun-16 A	07-Jul-16 A	[Gantt bar for 30% Design Submittal - CD Secondary Clarifiers Plant 2]																							
CD20790	30% Design Review - CD Secondary Clarifiers Plant 2	50	08-Jul-16 A	26-Aug-16 A	[Gantt bar for 30% Design Review - CD Secondary Clarifiers Plant 2]																							
CD20800	60% Design Submittal - CD Secondary Clarifiers Plant 2	7	27-Aug-16 A	02-Sep-16 A	[Gantt bar for 60% Design Submittal - CD Secondary Clarifiers Plant 2]																							
CD20810	60% Design Review - CD Secondary Clarifiers Plant 2	42	03-Sep-16 A	14-Oct-16 A	[Gantt bar for 60% Design Review - CD Secondary Clarifiers Plant 2]																							
CD20820	100% Design Submittal - CD Secondary Clarifiers Plant 2	5	15-Oct-16 A	19-Oct-16 A	[Gantt bar for 100% Design Submittal - CD Secondary Clarifiers Plant 2]																							
CD20820	100% Design Review - CD Secondary Clarifiers Plant 2	64	20-Oct-16 A	22-Dec-16 A	[Gantt bar for 100% Design Review - CD Secondary Clarifiers Plant 2]																							
CD84360	Engineering Design - CD Secondary Clarifiers Plant 2	64	20-Oct-16 A	22-Dec-16 A	[Gantt bar for Engineering Design - CD Secondary Clarifiers Plant 2]																							
CD40350	100% Design Review/Permit Ready Submittal - CD Secondary Clarifiers Plant 2	323	16-Mar-16 A	01-Feb-17 A	[Gantt bar for 100% Design Review/Permit Ready Submittal - CD Secondary Clarifiers Plant 2]																							
Permitting					[Summary bar for Permitting phase]																							
CD80140	FDEP Permit - CD Secondary Clarifiers Plant 2	41	23-Dec-16 A	01-Feb-17 A	[Gantt bar for FDEP Permit - CD Secondary Clarifiers Plant 2]																							
CD80150	RER Permit - CD Secondary Clarifiers Plant 2	466	28-Jul-16 A	22-May-18 A	[Gantt bar for RER Permit - CD Secondary Clarifiers Plant 2]																							
CD84370	Permitting - CD Secondary Clarifiers Plant	181	28-Jul-16 A	24-Jun-17 A	[Gantt bar for Permitting - CD Secondary Clarifiers Plant]																							
CD80160	City of Miami Permit - CD Secondary Clarifiers Plant 2	97	03-Feb-17 A	10-May-17 A	[Gantt bar for City of Miami Permit - CD Secondary Clarifiers Plant 2]																							
Procurement					[Summary bar for Procurement phase]																							
CD84130	GMOU submittal and approval - CD Secondary Clarifiers Plant 2	466	28-Jul-16 A	22-May-18 A	[Gantt bar for GMOU submittal and approval - CD Secondary Clarifiers Plant 2]																							
CD84010	Internal Bid Package Review - CD Secondary Clarifiers Plant 2	180	10-May-17 A	22-May-18 A	[Gantt bar for Internal Bid Package Review - CD Secondary Clarifiers Plant 2]																							
CD31280	Design Documents Sent to Procurement - CD Secondary Clarifiers Plant 2	692	03-Feb-17 A	29-Nov-18 A	[Gantt bar for Design Documents Sent to Procurement - CD Secondary Clarifiers Plant 2]																							
CD31290	Submit/Approve SBD Goals and Request to Advertise - CD Secondary Clarifiers Plant 2	21	03-Feb-17 A	23-Feb-17 A	[Gantt bar for Submit/Approve SBD Goals and Request to Advertise - CD Secondary Clarifiers Plant 2]																							
CD31300	Advertise Bid Package - CD Secondary Clarifiers Plant 2	3	13-Nov-17 A	26-Nov-17 A	[Gantt bar for Advertise Bid Package - CD Secondary Clarifiers Plant 2]																							
CD31310	Bid Solicitation Period - CD Secondary Clarifiers Plant 2	0	27-Nov-17 A		[Gantt bar for Bid Solicitation Period - CD Secondary Clarifiers Plant 2]																							
CD31320	Bids Due - CD Secondary Clarifiers Plant 2	60	22-Jan-18 A	11-Apr-18 A	[Gantt bar for Bids Due - CD Secondary Clarifiers Plant 2]																							
CD31330	Bid Review Period - CD Secondary Clarifiers Plant 2	20	12-Apr-18 A		[Gantt bar for Bid Review Period - CD Secondary Clarifiers Plant 2]																							
CD31340	Award Recommendation - CD Secondary Clarifiers Plant 2	45	12-Apr-18 A	04-Jun-18 A	[Gantt bar for Award Recommendation - CD Secondary Clarifiers Plant 2]																							
CD84380	Procurement - CD Secondary Clarifiers Plant 2	60	05-Jun-18 A	12-Oct-18 A	[Gantt bar for Procurement - CD Secondary Clarifiers Plant 2]																							
CD31350	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 2	0	05-Jun-18 A		[Gantt bar for Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 2]																							
Construction					[Summary bar for Construction phase]																							
CD11113	Contractor Notice to Proceed (NTP) - CD Secondary Clarifiers Plant 2	1775	06-Dec-18 A	09-Nov-23	[Gantt bar for Contractor Notice to Proceed (NTP) - CD Secondary Clarifiers Plant 2]																							
CD11120	Construction Clarifiers 1&2 - CD Secondary Clarifiers Plant 2	0	06-Dec-18 A		[Gantt bar for Construction Clarifiers 1&2 - CD Secondary Clarifiers Plant 2]																							
CD80120	Construction 2 Electrical Buildings - CD Secondary Clarifiers Plant 2	348	06-Dec-18 A	18-Nov-19	[Gantt bar for Construction 2 Electrical Buildings - CD Secondary Clarifiers Plant 2]																							
CD11230	Construction Clarifiers 3&4 - CD Secondary Clarifiers Plant 2	348	06-Dec-18 A	18-Nov-19	[Gantt bar for Construction Clarifiers 3&4 - CD Secondary Clarifiers Plant 2]																							
CD11300	Construction Clarifiers 5&6 - CD Secondary Clarifiers Plant 2	349	19-Nov-19	01-Nov-20	[Gantt bar for Construction Clarifiers 5&6 - CD Secondary Clarifiers Plant 2]																							
CD11420	Construction Clarifiers 7&8 - CD Secondary Clarifiers Plant 2	348	02-Nov-20	15-Oct-21	[Gantt bar for Construction Clarifiers 7&8 - CD Secondary Clarifiers Plant 2]																							
CD84390	Construction Clarifiers - CD Secondary Clarifiers Plant 2	348	16-Oct-21	28-Sep-22	[Gantt bar for Construction Clarifiers - CD Secondary Clarifiers Plant 2]																							
CD11510	Construction Clarifiers 9&10 - CD Secondary Clarifiers Plant 2	1740	06-Dec-18 A	10-Sep-23	[Gantt bar for Construction Clarifiers 9&10 - CD Secondary Clarifiers Plant 2]																							
CD86250	Commissioning - CD Secondary Clarifiers Plant 2	347	29-Sep-22	10-Sep-23	[Gantt bar for Commissioning - CD Secondary Clarifiers Plant 2]																							
CD83700	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Plant 2	60	13-Jul-23	10-Sep-23	[Gantt bar for Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Plant 2]																							
CD40060	Project Closeout - CD Secondary Clarifiers Plant 2	0	10-Sep-23		[Gantt bar for Project Closeout - CD Secondary Clarifiers Plant 2]																							
Project Administration					[Summary bar for Project Administration phase]																							
CD85150	WASD Project Administration - CD Secondary Clarifiers Plant 2	60	11-Sep-23		[Gantt bar for WASD Project Administration - CD Secondary Clarifiers Plant 2]																							
2.08 (2) Secondary Clarifiers Plant 2 Train Mechanisms					[Summary bar for 2.08 (2) Secondary Clarifiers Plant 2 Train Mechanisms]																							
Construction					[Summary bar for Construction phase]																							
CD83710	Construction Trains 2&3 - CD Secondary Clarifiers Train Mechanisms	1351	21-Nov-18 A	27-Jun-22	[Gantt bar for Construction Trains 2&3 - CD Secondary Clarifiers Train Mechanisms]																							
CD83720	Construction Train 9 - CD Secondary Clarifiers Train Mechanisms	1306	21-Nov-18 A	27-Jun-22	[Gantt bar for Construction Train 9 - CD Secondary Clarifiers Train Mechanisms]																							
CD83730	Construction Trains 5&6 - CD Secondary Clarifiers Train Mechanisms	45	21-Nov-18 A	04-Jan-19	[Gantt bar for Construction Trains 5&6 - CD Secondary Clarifiers Train Mechanisms]																							
CD86100	Construction Train 4 - CD Secondary Clarifiers Train Mechanisms	45	13-Feb-19	29-Mar-19	[Gantt bar for Construction Train 4 - CD Secondary Clarifiers Train Mechanisms]																							
CD83740	Construction Trains 7&8 - CD Secondary Clarifiers Train Mechanisms	180	01-Oct-19	28-Mar-20	[Gantt bar for Construction Trains 7&8 - CD Secondary Clarifiers Train Mechanisms]																							
CD84400	Construction Trains - CD Secondary Clarifiers Plant 2 Train Mechanisms	180	01-Oct-19	28-Mar-20	[Gantt bar for Construction Trains - CD Secondary Clarifiers Plant 2 Train Mechanisms]																							
CD83750	Construction Trains 9&10 - CD Secondary Clarifiers Train Mechanisms	180	01-Oct-20	29-Mar-21	[Gantt bar for Construction Trains 9&10 - CD Secondary Clarifiers Train Mechanisms]																							
CD83760	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Train Mechanisms	1261	21-Nov-18 A	29-Mar-22	[Gantt bar for Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Train Mechanisms]																							
CD85710	Project Closeout - CD Secondary Clarifiers Train Mechanisms	180	01-Oct-21	29-Mar-22	[Gantt bar for Project Closeout - CD Secondary Clarifiers Train Mechanisms]																							
Project Administration					[Summary bar for Project Administration phase]																							
CD85160	WASD Project Administration - CD Secondary Clarifiers Train Mechanisms	0	29-Mar-22		[Gantt bar for WASD Project Administration - CD Secondary Clarifiers Train Mechanisms]																							
2.08 (3) Secondary Clarifiers Plant 2 Structural Rehab					[Summary bar for 2.08 (3) Secondary Clarifiers Plant 2 Structural Rehab]																							
Pre-Design					[Summary bar for Pre-Design phase]																							
CD83770	Pre-Design Trains 1-10 - CD Secondary Clarifiers Structural Rehab	148	14-Jul-17 A	09-Feb-18 A	[Gantt bar for Pre-Design Trains 1-10 - CD Secondary Clarifiers Structural Rehab]																							
Engineering Design					[Summary bar for Engineering Design phase]																							
CD85730	50% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab	123	12-Feb-18 A	16-Jul-18 A	[Gantt bar for 50% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab]																							
CD85740	50% Design Review - CD Secondary Clarifiers Plant 2 Structural Rehab	120	12-Feb-18 A	25-Apr-18 A	[Gantt bar for 50% Design Review - CD Secondary Clarifiers Plant 2 Structural Rehab]																							
CD85750	100% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab	7	26-Apr-18 A	16-May-18 A	[Gantt bar for 100% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab]																							
CD84410	Engineering Design - CD Secondary Clarifiers Plant 2 Structural Rehab	21	16-May-18 A	16-May-18 A	[Gantt bar for Engineering Design - CD Secondary Clarifiers Plant 2 Structural Rehab]																							
CD85760	100% Design Review/Bid Ready Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab	120	12-Feb-18 A	16-Jul-18 A	[Gantt bar for 100% Design Review/Bid Ready Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab]																							
Procurement					[Summary bar for Procurement phase]																							
CD83870	Procurement Trains 2&3 - CD Secondary Clarifiers Structural Rehab	20	16-May-18 A	16-Jul-18 A	[Gantt bar for Procurement Trains 2&3 - CD Secondary Clarifiers Structural Rehab]																							
CD87030	Procurement Trains 9 - CD Secondary Clarifiers Structural Rehab	1187	17-Jul-18 A	30-Sep-21	[Gantt bar for Procurement Trains 9 - CD Secondary Clarifiers Structural Rehab]																							
CD83890	Procurement Trains 4 - CD Secondary Clarifiers Structural Rehab	90	17-Jul-18 A	20-Nov-18 A	[Gantt bar for Procurement Trains 4 - CD Secondary Clarifiers Structural Rehab]																							
CD87040	Procurement Trains 5 - CD Secondary Clarifiers Structural Rehab	90	23-Aug-18 A	29-Mar-19	[Gantt bar for Procurement Trains 5 - CD Secondary Clarifiers Structural Rehab]																							
CD87050	Procurement Trains 6 - CD Secondary Clarifiers Structural Rehab	90	03-Jul-19*	30-Sep-19	[Gantt bar for Procurement Trains 6 - CD Secondary Clarifiers Structural Rehab]																							
CD83900	Procurement Trains 7 - CD Secondary Clarifiers Structural Rehab	90	03-Jul-19*	30-Sep-19	[Gantt bar for Procurement Trains 7 - CD Secondary Clarifiers Structural Rehab]																							

Activity ID	Activity Name	Original Duration	Start	Finish	2016		2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
Procurement					293	16-Sep-16 A	06-Jul-17 A	06-Jul-17 A, Procurement																												
CD30690	Design Documents Sent to Procurement - CD Co-Gen Biogas Treatment Facilities	0	16-Sep-16 A		◆ Design Documents Sent to Procurement - CD Co-Gen Biogas Treatment Facilities																															
CD30700	Submit/Approve SBD Goals and Request to Advertise - CD Co-Gen Biogas Treatment Facilities	62	16-Sep-16 A	16-Nov-16 A	■ Submit/Approve SBD Goals and Request to Advertise - CD Co-Gen Biogas Treatment Facilities																															
CD30710	Advertise Bid Package - CD Co-Gen Biogas Treatment Facilities	0	17-Nov-16 A		◆ Advertise Bid Package - CD Co-Gen Biogas Treatment Facilities																															
CD30720	Bid Solicitation Period - CD Co-Gen Biogas Treatment Facilities	91	17-Nov-16 A	15-Feb-17 A	■ Bid Solicitation Period - CD Co-Gen Biogas Treatment Facilities																															
CD30730	Bids Due - CD Co-Gen Biogas Treatment Facilities	0	16-Feb-17 A		◆ Bids Due - CD Co-Gen Biogas Treatment Facilities																															
CD30740	Bid Review Period - CD Co-Gen Biogas Treatment Facilities	19	16-Feb-17 A	06-Mar-17 A	■ Bid Review Period - CD Co-Gen Biogas Treatment Facilities																															
CD30750	Award Recommendation - CD Co-Gen Biogas Treatment Facilities	0		06-Mar-17 A	◆ Award Recommendation - CD Co-Gen Biogas Treatment Facilities																															
CD64830	Updated Award Recommendation - CD Co-Gen Biogas Treatment Facilities	0		29-Jun-17 A	◆ Updated Award Recommendation - CD Co-Gen Biogas Treatment Facilities																															
CD12121	Procurement - CD Co-Gen Biogas Treatment Facilities	294	16-Sep-16 A	06-Jul-17 A	■ Procurement - CD Co-Gen Biogas Treatment Facilities																															
CD30760	Final Approvals - CD Co-Gen Biogas Treatment Facilities	122	07-Mar-17 A	06-Jul-17 A	■ Final Approvals - CD Co-Gen Biogas Treatment Facilities																															
Construction					825	20-Jul-17 A	22-Oct-19	22-Oct-19, Construction																												
CD12130	Contractor Notice to Proceed (NTP) - CD Co-Gen Biogas Treatment Facilities	0	20-Jul-17 A		◆ Contractor Notice to Proceed (NTP) - CD Co-Gen Biogas Treatment Facilities																															
CD83530	Complete Switchgear Building Commissioning (Milestone #1) - CD Co-Gen Biogas Treatment Facilities	0		11-Mar-19	◆ Complete Switchgear Building Commissioning (Milestone #1) - CD Co-Gen Biogas Treatment Facilities																															
CD12131	Construction - CD Co-Gen Biogas Treatment Facilities	660	20-Jul-17 A	24-Jul-19	■ Construction - CD Co-Gen Biogas Treatment Facilities																															
CD86360	Commissioning - CD Co-Gen Biogas Treatment Facilities	60	26-May-19	24-Jul-19	■ Commissioning - CD Co-Gen Biogas Treatment Facilities																															
CD12141	2.19 (2a) Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Biogas Treatment Facilities	0		24-Jul-19*	◆ 2.19 (2a) Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Biogas Treatment Facilities																															
CD40210	Project Closeout - CD Co-Gen Biogas Treatment Facilities	90	25-Jul-19	22-Oct-19*	■ Project Closeout - CD Co-Gen Biogas Treatment Facilities																															
Project Administration					1527	04-Jun-15 A	22-Oct-19	22-Oct-19, Project Administration																												
CD34170	WASD Project Administration - CD Co-Gen Biogas Treatment Facilities	1527	04-Jun-15 A	22-Oct-19	■ WASD Project Administration - CD Co-Gen Biogas Treatment Facilities																															
2.19 (2b) Co-Gen Restroom and Building Rehab					1290	14-Apr-16 A	25-Oct-19	25-Oct-19, 2.19 (2b) Co-Gen Restroom and Building Rehab																												
Engineering Design					200	14-Apr-16 A	31-Oct-16 A	31-Oct-16 A, Engineering Design																												
CD70980	Draft Basis of Design Report (BODR) - CD Co-Gen Restroom and Building Rehab	28	14-Apr-16 A	11-May-16 A	■ Draft Basis of Design Report (BODR) - CD Co-Gen Restroom and Building Rehab																															
CD70990	BODR Review Period - CD Co-Gen Restroom and Building Rehab	14	12-May-16 A	25-May-16 A	■ BODR Review Period - CD Co-Gen Restroom and Building Rehab																															
CD71040	Final BODR - CD Co-Gen Restroom and Building Rehab	14	26-May-16 A	08-Jun-16 A	■ Final BODR - CD Co-Gen Restroom and Building Rehab																															
CD71000	60% Design Submittal - CD Co-Gen Restroom and Building Rehab	59	09-Jun-16 A	06-Aug-16 A	■ 60% Design Submittal - CD Co-Gen Restroom and Building Rehab																															
CD71010	60% Design Review - CD Co-Gen Restroom and Building Rehab	14	07-Aug-16 A	20-Aug-16 A	■ 60% Design Review - CD Co-Gen Restroom and Building Rehab																															
CD71020	100% Design Submittal - CD Co-Gen Restroom and Building Rehab	26	21-Aug-16 A	15-Sep-16 A	■ 100% Design Submittal - CD Co-Gen Restroom and Building Rehab																															
CD82110	Engineering Design - CD Co-Gen Restroom and Building Rehab	201	14-Apr-16 A	31-Oct-16 A	■ Engineering Design - CD Co-Gen Restroom and Building Rehab																															
CD71030	100% Design Review/Permit Ready Submittal - CD Co-Gen Restroom and Building Rehab	46	16-Sep-16 A	31-Oct-16 A	■ 100% Design Review/Permit Ready Submittal - CD Co-Gen Restroom and Building Rehab																															
Permitting					276	01-Nov-16 A	04-Aug-17 A	04-Aug-17 A, Permitting																												
CD71050	RER Permit - CD Co-Gen Restroom and Building Rehab	52	01-Nov-16 A	22-Dec-16 A	■ RER Permit - CD Co-Gen Restroom and Building Rehab																															
CD82100	Permitting - CD Co-Gen Restroom and Building Rehab	277	01-Nov-16 A	04-Aug-17 A	■ Permitting - CD Co-Gen Restroom and Building Rehab																															
CD81960	City of Miami Permit - CD Co-Gen Restroom and Building Rehab	213	04-Jan-17 A	04-Aug-17 A	■ City of Miami Permit - CD Co-Gen Restroom and Building Rehab																															
Procurement					624	03-Feb-17 A	29-Nov-18 A	29-Nov-18 A, Procurement																												
CD84160	GMOU submittal and approval - CD Co-Gen Restroom and Building Rehab	20	03-Feb-17 A	22-Feb-17 A	■ GMOU submittal and approval - CD Co-Gen Restroom and Building Rehab																															
CD84100	Internal Bid Package Review - CD Co-Gen Restroom and Building Rehab	13	05-Aug-17 A	17-Aug-17 A	■ Internal Bid Package Review - CD Co-Gen Restroom and Building Rehab																															
CD81970	Design Documents Sent to Procurement - CD Co-Gen Restroom and Building Rehab	0	18-Aug-17 A		◆ Design Documents Sent to Procurement - CD Co-Gen Restroom and Building Rehab																															
CD82330	SBD Goals / OCI Reviews and Provides List - CD Co-Gen Restroom and Building Rehab	39	18-Aug-17 A	25-Sep-17 A	■ SBD Goals / OCI Reviews and Provides List - CD Co-Gen Restroom and Building Rehab																															
CD81990	Advertise Bid Package - CD Co-Gen Restroom and Building Rehab	0	26-Sep-17 A		◆ Advertise Bid Package - CD Co-Gen Restroom and Building Rehab																															
CD82000	Bid Solicitation Period - CD Co-Gen Restroom and Building Rehab	42	26-Sep-17 A	18-Jan-18 A	■ Bid Solicitation Period - CD Co-Gen Restroom and Building Rehab																															
CD82010	Bids Due - CD Co-Gen Restroom and Building Rehab	0	19-Jan-18 A		◆ Bids Due - CD Co-Gen Restroom and Building Rehab																															
CD82020	Bid Review Period - CD Co-Gen Restroom and Building Rehab	32	19-Jan-18 A	14-Feb-18 A	■ Bid Review Period - CD Co-Gen Restroom and Building Rehab																															
CD85500	Bids Cancelled - CD Co-Gen Restroom and Building Rehab	0		14-Feb-18 A	◆ Bids Cancelled - CD Co-Gen Restroom and Building Rehab																															
CD85510	Bid Documents Revised (for Bid#2) - CD Co-Gen Restroom and Building Rehab	20	15-Feb-18 A	22-Feb-18 A	◆ Bid Documents Revised (for Bid#2) - CD Co-Gen Restroom and Building Rehab																															
CD85520	Design Documents Sent to Procurement (for Bid#2) - CD Co-Gen Restroom and Building Rehab	0	22-Feb-18 A		◆ Design Documents Sent to Procurement (for Bid#2) - CD Co-Gen Restroom and Building Rehab																															
CD85530	SBD Goals / OCI Reviews and Provides List (for Bid#2) - CD Co-Gen Restroom and Building Rehab	20	23-Feb-18 A	25-Feb-18 A	■ SBD Goals / OCI Reviews and Provides List (for Bid#2) - CD Co-Gen Restroom and Building Rehab																															
CD85540	Advertise Bid Package (for Bid#2) - CD Co-Gen Restroom and Building Rehab	0	26-Feb-18 A		◆ Advertise Bid Package (for Bid#2) - CD Co-Gen Restroom and Building Rehab																															
CD85550	Bid Solicitation Period (for Bid#2) - CD Co-Gen Restroom and Building Rehab	45	26-Feb-18 A	05-Apr-18 A	■ Bid Solicitation Period (for Bid#2) - CD Co-Gen Restroom and Building Rehab																															
CD85560	Bid Due (for Bid#2) - CD Co-Gen Restroom and Building Rehab	0	06-Apr-18 A		◆ Bid Due (for Bid#2) - CD Co-Gen Restroom and Building Rehab																															
CD85570	Bid Review Period (for Bid#2) - CD Co-Gen Restroom and Building Rehab	30	06-Apr-18 A	08-May-18 A	■ Bid Review Period (for Bid#2) - CD Co-Gen Restroom and Building Rehab																															
CD82030	Bids Rejected (for Bid#2) - CD Co-Gen Restroom and Building Rehab	0		08-May-18 A	◆ Bids Rejected (for Bid#2) - CD Co-Gen Restroom and Building Rehab																															
CD86010	Bid Documents Revised (for Bid#3) - CD Co-Gen Restroom and Building Rehab	7	08-May-18 A	07-Jun-18 A	◆ Bid Documents Revised (for Bid#3) - CD Co-Gen Restroom and Building Rehab																															
CD86020	Design Documents Sent to Procurement (for Bid#3) - CD Co-Gen Restroom and Building Rehab	0	08-Jun-18 A		◆ Design Documents Sent to Procurement (for Bid#3) - CD Co-Gen Restroom and Building Rehab																															
CD86030	SBD Goals / OCI Reviews and Provides List (for Bid#3) - CD Co-Gen Restroom and Building Rehab	30	06-Jun-18 A	14-Jun-18 A	■ SBD Goals / OCI Reviews and Provides List (for Bid#3) - CD Co-Gen Restroom and Building Rehab																															
CD86040	Advertise Bid Package (for Bid#3) - CD Co-Gen Restroom and Building Rehab	0	14-Jun-18 A		◆ Advertise Bid Package (for Bid#3) - CD Co-Gen Restroom and Building Rehab																															
CD86050	Bid Solicitation Period (for Bid#3) - CD Co-Gen Restroom and Building Rehab	45	14-Jun-18 A	26-Jul-18 A	■ Bid Solicitation Period (for Bid#3) - CD Co-Gen Restroom and Building Rehab																															
CD86060	Bid Due (for Bid#3) - CD Co-Gen Restroom and Building Rehab	0	27-Jul-18 A		◆ Bid Due (for Bid#3) - CD Co-Gen Restroom and Building Rehab																															
CD86070	Bid Review Period (for Bid#3) - CD Co-Gen Restroom and Building Rehab	30	27-Jul-18 A	29-Aug-18 A	■ Bid Review Period (for Bid#3) - CD Co-Gen Restroom and Building Rehab																															
CD86080	Award Recommendation (for Bid#3) - CD Co-Gen Restroom and Building Rehab	0		29-Aug-18 A	◆ Award Recommendation (for Bid#3) - CD Co-Gen Restroom and Building Rehab																															
CD82040	Procurement - CD Co-Gen Restroom and Building Rehab	81	18-Aug-17 A	29-Nov-18 A	■ Procurement - CD Co-Gen Restroom and Building Rehab																															
CD82050	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Co-Gen Restroom and Building Rehab	24	26-Aug-18 A	29-Nov-18 A	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Co-Gen Restroom and Building Rehab																															
Construction					300	30-Nov-18 A	25-Oct-19	25-Oct-19, Construction																												
CD82060	Contractor Notice to Proceed (NTP) - CD Co-Gen Restroom and Building Rehab	0	30-Nov-18 A		◆ Contractor Notice to Proceed (NTP) - CD Co-Gen Restroom and Building Rehab																															
CD82070	Construction - CD Co-Gen Restroom and Building Rehab	300	30-Nov-18 A	25-Sep-19	■ Construction - CD Co-Gen Restroom and Building Rehab																															
CD86370	Commissioning - CD Co-Gen Restroom and Building Rehab	30	27-Aug-19	25-Sep-19	■ Commissioning - CD Co-Gen Restroom and Building Rehab																															
CD82080	2.19 (2b) Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Restroom and Building Rehab	0		25-Sep-19*	◆ 2.19 (2b) Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Restroom and Building Rehab																															
CD82090	Project Closeout - CD Co-Gen Restroom and Building Rehab	30	26-Sep-19	25-Oct-19*	■ Project Closeout - CD Co-Gen Restroom and Building Rehab																															
Project Administration					90	14-Apr-16 A	25-Oct-19	25-Oct-19, Project Administration																												
CD85220	WASD Project Administration - CD Co-Gen Restroom and Building Rehab	90	14-Apr-16 A	25-Oct-19	■ WASD Project Administration - CD Co-Gen Restroom and Building Rehab																															
2.20 Septage Unloading Station - Cancelled					0	28-Dec-16 A	28-Dec-16 A	28-Dec-16 A, 2.20 Septage Unloading Station - Cancelled																												
Pre-Design					0	28-Dec-16 A	28-Dec-16 A	28-Dec-16 A, Pre-Design																												
CD12241	Approval of Motion to Cancel Project - CD Septage Unloading Station	0		28-Dec-16 A	◆ Approval of Motion to Cancel Project - CD Septage Unloading Station																															
2.21 Pump Station No.1					2083	16-Jun-15 A	26-Feb-21	26-Feb-21, 2.21 Pump Station No.1																												

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023		2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
Pre-Design					25-Jan-18 A, Pre-Design																															
CD12251	Pre-Design - CD Pump Station No. 1	59	16-Jun-15 A	25-Jan-18 A	Pre-Design - CD Pump Station No. 1																															
CD85380	Pre-Design (Temp. Odor System) - CD Pump Station No. 1	59	21-Sep-17 A	25-Jan-18 A	Pre-Design (Temp. Odor System) - CD Pump Station No. 1																															
Engineering Design					22-Feb-18 A, Engineering Design																															
CD21440	Condition Assessment - CD Pump Station No. 1	70	13-Aug-15 A	08-Nov-15 A	Condition Assessment - CD Pump Station No. 1																															
CD21450	Condition Assessment Review Period - CD Pump Station No. 1	12	09-Nov-15 A	20-Nov-15 A	Condition Assessment Review Period - CD Pump Station No. 1																															
CD83260	EPA Start Date for Engineering Design - CD Pump Station No. 1	0	01-Oct-16 A		EPA Start Date for Engineering Design - CD Pump Station No. 1																															
CD33770	Negotiate Final Design - CD Pump Station No. 1	326	24-Nov-15 A	14-Oct-16 A	Negotiate Final Design - CD Pump Station No. 1																															
CD21460	BODR Design Submittal - CD Pump Station No. 1	32	15-Oct-16 A	15-Nov-16 A	BODR Design Submittal - CD Pump Station No. 1																															
CD21470	BODR Design Review - CD Pump Station No. 1	7	16-Nov-16 A	22-Nov-16 A	BODR Design Review - CD Pump Station No. 1																															
CD21490	60% / Charette Design Submittal - CD Pump Station No. 1	38	23-Nov-16 A	30-Dec-16 A	60% / Charette Design Submittal - CD Pump Station No. 1																															
CD83990	60% / Charette Design Review - CD Pump Station No. 1	10	31-Dec-16 A	09-Jan-17 A	60% / Charette Design Review - CD Pump Station No. 1																															
CD21500	100% Design Submittal - CD Pump Station No. 1	58	10-Jan-17 A	08-Mar-17 A	100% Design Submittal - CD Pump Station No. 1																															
CD10710	Engineering Design - CD Pump Station No. 1	638	13-Aug-15 A	11-May-17 A	Engineering Design - CD Pump Station No. 1																															
CD40500	100% Design Review/Permit Ready Submittal - CD Pump Station No. 1	64	09-Mar-17 A	11-May-17 A	100% Design Review/Permit Ready Submittal - CD Pump Station No. 1																															
CD81920	EPA Compliance Date for Engineering Design - CD Pump Station No. 1	0		30-Jun-17 A	EPA Compliance Date for Engineering Design - CD Pump Station No. 1																															
CD85390	Engineering Design (Tech. Spec.) for Temp. Odor System - CD Pump Station No. 1	66	26-Jan-18 A	22-Feb-18 A	Engineering Design (Tech. Spec.) for Temp. Odor System - CD Pump Station No. 1																															
Permitting					05-Feb-18 A, Permitting																															
CD80180	RER Permit - CD Pump Station No. 1	23	15-May-17 A	06-Jun-17 A	RER Permit - CD Pump Station No. 1																															
CD83270	EPA Start Date for Permitting - CD Pump Station No. 1	0	01-Jul-17 A		EPA Start Date for Permitting - CD Pump Station No. 1																															
CD10830	Permitting - CD Pump Station No. 1	264	15-May-17 A	08-Jan-18 A	Permitting - CD Pump Station No. 1																															
CD80200	City of Miami Permit - CD Pump Station No. 1	236	12-Jun-17 A	08-Jan-18 A	City of Miami Permit - CD Pump Station No. 1																															
CD81930	EPA Compliance Date for Permitting - CD Pump Station No. 1	0		05-Feb-18 A	EPA Compliance Date for Permitting - CD Pump Station No. 1																															
Procurement					05-Feb-19, Procurement																															
CD84670	Procurement of Screens for Rehab by WASD - CD Pump Station No. 1	42	23-Dec-15 A	02-Feb-16 A	Procurement of Screens for Rehab by WASD - CD Pump Station No. 1																															
CD84240	GMOU submittal and approval - CD Pump Station No. 1	22	17-May-17 A	07-Jun-17 A	GMOU submittal and approval - CD Pump Station No. 1																															
CD84110	Internal Bid Package Review - CD Pump Station No. 1	33	27-Sep-17 A	07-Dec-17 A	Internal Bid Package Review - CD Pump Station No. 1																															
CD32320	Design Documents Sent to Procurement - CD Pump Station No. 1	0	08-Dec-17 A		Design Documents Sent to Procurement - CD Pump Station No. 1																															
CD32330	Submit/Approve SBD Goals and Request to Advertise - CD Pump Station No. 1	15	08-Dec-17 A	15-Dec-17 A	Submit/Approve SBD Goals and Request to Advertise - CD Pump Station No. 1																															
CD84690	OCI Reviews and Provides List - CD Pump Station No. 1	5	23-Dec-17 A	10-Jan-18 A	OCI Reviews and Provides List - CD Pump Station No. 1																															
CD32340	Advertise Bid Package - CD Pump Station No. 1	0	11-Jan-18 A		Advertise Bid Package - CD Pump Station No. 1																															
CD83280	EPA Start Date for Procurement - CD Pump Station No. 1	0	06-Feb-18 A		EPA Start Date for Procurement - CD Pump Station No. 1																															
CD32350	Bid Solicitation Period - CD Pump Station No. 1	46	11-Jan-18 A	08-Mar-18 A	Bid Solicitation Period - CD Pump Station No. 1																															
CD32360	Bids Due - CD Pump Station No. 1	0	09-Mar-18 A		Bids Due - CD Pump Station No. 1																															
CD32370	Bid Review Period - CD Pump Station No. 1	31	09-Mar-18 A	06-Apr-18 A	Bid Review Period - CD Pump Station No. 1																															
CD32380	Award Recommendation - CD Pump Station No. 1	0		06-Apr-18 A	Award Recommendation - CD Pump Station No. 1																															
CD11020	Procurement - CD Pump Station No. 1	862	08-Dec-17 A	10-Jun-18 A	Procurement - CD Pump Station No. 1																															
CD32390	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Pump Station No. 1	60	07-Apr-18 A	10-Jun-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Pump Station No. 1																															
CD81940	EPA Compliance Date for Procurement - CD Pump Station No. 1	0		05-Feb-19*	EPA Compliance Date for Procurement - CD Pump Station No. 1																															
Construction					26-Feb-21, Construction																															
CD84680	Screen Rehab by WASD - CD Pump Station No. 1	147	07-Sep-16 A	31-Jan-17 A	Screen Rehab by WASD - CD Pump Station No. 1																															
CD11148	Contractor Notice to Proceed (NTP) - CD Pump Station No. 1	0	11-Jun-18 A		Contractor Notice to Proceed (NTP) - CD Pump Station No. 1																															
CD83290	EPA Start Date for Construction - CD Pump Station No. 1	0	06-Feb-19*		EPA Start Date for Construction - CD Pump Station No. 1																															
CD11150	Construction - CD Pump Station No. 1	451	07-Sep-16 A	26-Jul-19	Construction - CD Pump Station No. 1																															
CD84790	Construction of PS #1 - CD Pump Station No. 1	410	11-Jun-18 A	26-Jul-19	Construction of PS #1 - CD Pump Station No. 1																															
CD86380	Commissioning - CD Pump Station No. 1	30	27-Jun-19	26-Jul-19	Commissioning - CD Pump Station No. 1																															
CD11210	Substantial Completion (CD Compliance Date 2/26/21) - CD Pump Station No. 1	0		26-Jul-19*	Substantial Completion (CD Compliance Date 2/26/21) - CD Pump Station No. 1																															
CD40220	Project Closeout - CD Pump Station No. 1	30	27-Jul-19	25-Aug-19*	Project Closeout - CD Pump Station No. 1																															
CD81950	EPA Compliance Date for Construction - CD Pump Station No. 1	0		26-Feb-21*	EPA Compliance Date for Construction - CD Pump Station No. 1																															
Project Administration					25-Aug-19, Project Administration																															
CD34180	WASD Project Administration - CD Pump Station No. 1	1466	13-Aug-15 A	25-Aug-19	WASD Project Administration - CD Pump Station No. 1																															
2.22 Pump Station No.2					07-Aug-19, 2.22 Pump Station No.2																															
Pre-Design					13-Apr-16 A, Engineering Design																															
CD12261	Pre-Design - CD Pump Station No. 2	197	30-Sep-14 A	13-Apr-15 A	Pre-Design - CD Pump Station No. 2																															
CD83300	EPA Start Date for Engineering Design - CD Pump Station No. 2**	0	01-Oct-14 A		EPA Start Date for Engineering Design - CD Pump Station No. 2**																															
CD81590	EPA Compliance Date for Engineering Design - CD Pump Station No. 2**	0		05-Feb-15 A	EPA Compliance Date for Engineering Design - CD Pump Station No. 2**																															
CD20490	Basis of Design Report (BODR) - CD Pump Station No. 2	111	13-Apr-15 A	04-Aug-15 A	Basis of Design Report (BODR) - CD Pump Station No. 2																															
CD20500	BODR Review Period - CD Pump Station No. 2	17	05-Aug-15 A	21-Aug-15 A	BODR Review Period - CD Pump Station No. 2																															
CD30310	Negotiation of Final Design - CD Pump Station No. 2	122	21-Jul-15 A	19-Nov-15 A	Negotiation of Final Design - CD Pump Station No. 2																															
CD20530	60% Design Submittal - CD Pump Station No. 2	70	19-Nov-15 A	27-Jan-16 A	60% Design Submittal - CD Pump Station No. 2																															
CD20540	60% Design Review - CD Pump Station No. 2	7	28-Jan-16 A	03-Feb-16 A	60% Design Review - CD Pump Station No. 2																															
CD20550	100% Design Submittal - CD Pump Station No. 2	35	04-Feb-16 A	09-Mar-16 A	100% Design Submittal - CD Pump Station No. 2																															
CD40530	Develop Pre-Purchase Bid Packages (Odor Control, Valve, Flowmeter) - CD Pump Station No. 2	66	31-Jan-16 A	05-Apr-16 A	Develop Pre-Purchase Bid Packages (Odor Control, Valve, Flowmeter) - CD Pump Station No. 2																															
CD10270	Engineering Design - CD Pump Station No. 2	365	13-Apr-15 A	13-Apr-16 A	Engineering Design - CD Pump Station No. 2																															
CD40510	100% Design Review/Permit Ready Submittal - CD Pump Station No. 2	35	10-Mar-16 A	13-Apr-16 A	100% Design Review/Permit Ready Submittal - CD Pump Station No. 2																															
Permitting					15-Dec-16 A, Permitting																															
CD83310	EPA Start Date for Permitting - CD Pump Station No. 2	0	06-Feb-15 A		EPA Start Date for Permitting - CD Pump Station No. 2																															
CD80130	Miami 21 Zoning Permit - CD Pump Station No. 2	54	18-Apr-16 A	10-Jun-16 A	Miami 21 Zoning Permit - CD Pump Station No. 2																															
CD82120	DERM Permit - CD Pump Station No. 2	70	13-Apr-16 A	21-Jun-16 A	DERM Permit - CD Pump Station No. 2																															
CD82130	FDOT Permit - CD Pump Station No. 2	11	23-Sep-16 A	03-Oct-16 A	FDOT Permit - CD Pump Station No. 2																															
CD10350	Permitting - CD Pump Station No. 2	234	13-Apr-16 A	02-Dec-16 A	Permitting - CD Pump Station No. 2																															
CD80060	City of Miami Permit - CD Pump Station No. 2	159	27-Jun-16 A	02-Dec-16 A	City of Miami Permit - CD Pump Station No. 2																															
CD81600	EPA Compliance Date for Permitting - CD Pump Station No. 2	0		15-Dec-16 A	EPA Compliance Date for Permitting - CD Pump Station No. 2																															

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Procurement					27-Mar-17 A, Procurement																																	
CD40550	Advertise Pre-Purchase Package (Plug Valve) - CD Pump Station No. 2	355	06-Apr-16 A	27-Mar-17 A	◆ Advertise Pre-Purchase Package (Plug Valve) - CD Pump Station No. 2																																	
CD40560	Advertise Pre-Purchase Package (Flow Meter) - CD Pump Station No. 2	0	06-Apr-16 A		◆ Advertise Pre-Purchase Package (Flow Meter) - CD Pump Station No. 2																																	
CD40580	Vendor Bid & Award (Plug Valve) - CD Pump Station No. 2	13	06-Apr-16 A	18-Apr-16 A	◆ Vendor Bid & Award (Plug Valve) - CD Pump Station No. 2																																	
CD40610	Vendor NTP (Plug Valve) - CD Pump Station No. 2	0	18-Apr-16 A		◆ Vendor NTP (Plug Valve) - CD Pump Station No. 2																																	
CD40590	Vendor Bid & Award (Flow Meter) - CD Pump Station No. 2	17	06-Apr-16 A	22-Apr-16 A	◆ Vendor Bid & Award (Flow Meter) - CD Pump Station No. 2																																	
CD40620	Vendor NTP (Flow Meter) - CD Pump Station No. 2	0	22-Apr-16 A		◆ Vendor NTP (Flow Meter) - CD Pump Station No. 2																																	
CD40540	Advertise Pre-Purchase Package (Odor Control) - CD Pump Station No. 2	0	17-Jun-16 A		◆ Advertise Pre-Purchase Package (Odor Control) - CD Pump Station No. 2																																	
CD40650	Fabricate & Deliver Flow Meter - CD Pump Station No. 2	60	22-Apr-16 A	20-Jun-16 A	◆ Fabricate & Deliver Flow Meter - CD Pump Station No. 2																																	
CD30780	Design Documents Sent to Procurement - CD Pump Station No. 2	0	15-Jul-16 A		◆ Design Documents Sent to Procurement - CD Pump Station No. 2																																	
CD83320	EPA Start Date for Procurement - CD Pump Station No. 2	0	29-Jul-16 A		◆ EPA Start Date for Procurement - CD Pump Station No. 2																																	
CD40570	Vendor Bid & Award (Odor Control) - CD Pump Station No. 2	54	17-Jun-16 A	09-Aug-16 A	◆ Vendor Bid & Award (Odor Control) - CD Pump Station No. 2																																	
CD40600	Vendor NTP (Odor Control) - CD Pump Station No. 2	0	10-Aug-16 A		◆ Vendor NTP (Odor Control) - CD Pump Station No. 2																																	
CD30800	Advertise Bid Package - CD Pump Station No. 2	0	29-Aug-16 A		◆ Advertise Bid Package - CD Pump Station No. 2																																	
CD30790	Submit/Approve SBD Goals and Request to Advertise - CD Pump Station No. 2	47	15-Jul-16 A	30-Aug-16 A	◆ Submit/Approve SBD Goals and Request to Advertise - CD Pump Station No. 2																																	
CD30810	Bid Solicitation Period - CD Pump Station No. 2	49	29-Aug-16 A	16-Oct-16 A	◆ Bid Solicitation Period - CD Pump Station No. 2																																	
CD30820	Bids Due - CD Pump Station No. 2	0	17-Oct-16 A		◆ Bids Due - CD Pump Station No. 2																																	
CD40640	Fabricate & Deliver Plug Valve - CD Pump Station No. 2	226	18-Apr-16 A	29-Nov-16 A	◆ Fabricate & Deliver Plug Valve - CD Pump Station No. 2																																	
CD30830	Bid Review Period - CD Pump Station No. 2	66	17-Oct-16 A	21-Dec-16 A	◆ Bid Review Period - CD Pump Station No. 2																																	
CD30840	Award Recommendation - CD Pump Station No. 2	0	21-Dec-16 A		◆ Award Recommendation - CD Pump Station No. 2																																	
CD10580	Procurement - CD Pump Station No. 2	193	15-Jul-16 A	23-Jan-17 A	◆ Procurement - CD Pump Station No. 2																																	
CD30850	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Pump Station No. 2	33	22-Dec-16 A	23-Jan-17 A	◆ Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Pump Station No. 2																																	
CD81610	EPA Compliance Date for Procurement - CD Pump Station No. 2	0	04-Feb-17 A		◆ EPA Compliance Date for Procurement - CD Pump Station No. 2																																	
CD40630	Fabricate & Deliver Odor Control System - CD Pump Station No. 2	230	10-Aug-16 A	27-Mar-17 A	◆ Fabricate & Deliver Odor Control System - CD Pump Station No. 2																																	
Construction					07-Aug-19, Construction																																	
CD10818	Contractor Notice to Proceed (NTP) - CD Pump Station No. 2	0	24-Jan-17 A		◆ Contractor Notice to Proceed (NTP) - CD Pump Station No. 2																																	
CD83330	EPA Start Date for Construction - CD Pump Station No. 2	0	05-Feb-17 A		◆ EPA Start Date for Construction - CD Pump Station No. 2																																	
CD81620	EPA Compliance Date for Construction - CD Pump Station No. 2	0		25-May-19*	◆ EPA Compliance Date for Construction - CD Pump Station No. 2																																	
CD10820	Construction - CD Pump Station No. 2	261	24-Jan-17 A	28-Jun-19	◆ Construction - CD Pump Station No. 2																																	
CD86390	Commissioning - CD Pump Station No. 2	30	30-May-19	28-Jun-19	◆ Commissioning - CD Pump Station No. 2																																	
CD10970	Substantial Completion (CD Compliance Date 5/25/19) - CD Pump Station No. 2	0		28-Jun-19*	◆ Substantial Completion (CD Compliance Date 5/25/19) - CD Pump Station No. 2																																	
CD40230	Project Closeout - CD Pump Station No. 2	40	29-Jun-19	07-Aug-19*	◆ Project Closeout - CD Pump Station No. 2																																	
Project Administration					07-Aug-19, Project Administration																																	
CD34190	WASD Project Administration - CD Pump Station No. 2	1000	13-Apr-15 A	07-Aug-19	◆ WASD Project Administration - CD Pump Station No. 2																																	
2.23 O2 Plant Process Controls Phase 2					09-Mar-17 A, 2.23 O2 Plant Process Controls Phase 2																																	
Engineering Design					02-Feb-14 A																																	
CD83340	EPA Start Date for Engineering Design - CD O2 Plant Process Controls Phase 2	124	01-Oct-13 A	02-Feb-14 A	◆ EPA Start Date for Engineering Design - CD O2 Plant Process Controls Phase 2																																	
CD10010	Engineering Design - CD O2 Plant Process Controls Phase 2	81	01-Oct-13 A	20-Dec-13 A	◆ Engineering Design - CD O2 Plant Process Controls Phase 2																																	
CD81630	EPA Compliance Date for Engineering Design - CD O2 Plant Process Controls Phase 2	0		02-Feb-14 A	◆ EPA Compliance Date for Engineering Design - CD O2 Plant Process Controls Phase 2																																	
Permitting					02-Feb-15 A																																	
CD10090	Permitting - CD O2 Plant Process Controls Phase 2	489	01-Oct-13 A	20-Dec-13 A	◆ Permitting - CD O2 Plant Process Controls Phase 2																																	
CD83350	EPA Start Date for Permitting - CD O2 Plant Process Controls Phase 2	81	01-Oct-13 A	20-Dec-13 A	◆ EPA Start Date for Permitting - CD O2 Plant Process Controls Phase 2																																	
CD81640	EPA Compliance Date for Permitting - CD O2 Plant Process Controls Phase 2	0	03-Feb-14 A		◆ EPA Compliance Date for Permitting - CD O2 Plant Process Controls Phase 2																																	
Procurement					02-Feb-16 A, Procurement																																	
CD83360	EPA Start Date for Procurement - CD O2 Plant Process Controls Phase 2	609	03-Jun-14 A	02-Feb-16 A	◆ EPA Start Date for Procurement - CD O2 Plant Process Controls Phase 2																																	
CD10340	Procurement - CD O2 Plant Process Controls Phase 2	315	03-Jun-14 A	13-Apr-15 A	◆ Procurement - CD O2 Plant Process Controls Phase 2																																	
CD81650	EPA Compliance Date for Procurement - CD O2 Plant Process Controls Phase 2	0		02-Feb-16 A	◆ EPA Compliance Date for Procurement - CD O2 Plant Process Controls Phase 2																																	
Construction					09-Mar-17 A, Construction																																	
CD83370	EPA Start Date for Construction - CD O2 Plant Process Controls Phase 2	689	20-Apr-15 A	09-Mar-17 A	◆ EPA Start Date for Construction - CD O2 Plant Process Controls Phase 2																																	
CD10570	Construction - CD O2 Plant Process Controls Phase 2	0	03-Feb-16 A		◆ Construction - CD O2 Plant Process Controls Phase 2																																	
CD10850	Substantial Completion (CD Compliance Date 3/09/17) - CD O2 Plant Process Controls Phase 2	372	20-Apr-15 A	25-Apr-16 A	◆ Substantial Completion (CD Compliance Date 3/09/17) - CD O2 Plant Process Controls Phase 2																																	
CD40240	Project Closeout - CD O2 Plant Process Controls Phase 2	172	26-Apr-16 A	14-Oct-16 A	◆ Project Closeout - CD O2 Plant Process Controls Phase 2																																	
CD81660	EPA Compliance Date for Construction - CD O2 Plant Process Controls Phase 2	0		09-Mar-17 A	◆ EPA Compliance Date for Construction - CD O2 Plant Process Controls Phase 2																																	
Project Administration					14-Oct-16 A, Project Administration																																	
CD34200	WASD Project Administration - CD O2 Plant Process Controls Phase 2	1109	01-Oct-13 A	14-Oct-16 A	◆ WASD Project Administration - CD O2 Plant Process Controls Phase 2																																	
2.24 Gas Monitoring and Alarms					21-Mar-18 A, 2.24 Gas Monitoring and Alarms																																	
Pre-Design					13-Apr-15 A																																	
CD12271	Pre-Design - CD Gas Monitoring and Alarms	115	19-Dec-14 A	13-Apr-15 A	◆ Pre-Design - CD Gas Monitoring and Alarms																																	
Engineering Design					11-Aug-15 A, Engineering Design																																	
CD83380	EPA Start Date for Engineering Design - CD Gas Monitoring and Alarms**	222	01-Jan-15 A	11-Aug-15 A	◆ EPA Start Date for Engineering Design - CD Gas Monitoring and Alarms**																																	
CD81680	EPA Compliance Date for Engineering Design - CD Gas Monitoring and Alarms**	0		04-Mar-15 A	◆ EPA Compliance Date for Engineering Design - CD Gas Monitoring and Alarms**																																	
CD10310	Engineering Design - CD Gas Monitoring and Alarms	121	13-Apr-15 A	11-Aug-15 A	◆ Engineering Design - CD Gas Monitoring and Alarms																																	
Construction					21-Mar-18 A, Construction																																	
CD31030	Contractor Notice to Proceed (NTP) - CD Gas Monitoring and Alarms	413	12-Oct-16 A	21-Mar-18 A	◆ Contractor Notice to Proceed (NTP) - CD Gas Monitoring and Alarms																																	
CD83410	EPA Start Date for Construction - CD Gas Monitoring and Alarms	0	05-Mar-17 A		◆ EPA Start Date for Construction - CD Gas Monitoring and Alarms																																	
CD81710	EPA Compliance Date for Construction - CD Gas Monitoring and Alarms**	0		19-Sep-17 A	◆ EPA Compliance Date for Construction - CD Gas Monitoring and Alarms**																																	
CD10840	Construction - CD Gas Monitoring and Alarms	353	12-Oct-16 A	29-Sep-17 A	◆ Construction - CD Gas Monitoring and Alarms																																	
CD10930	Substantial Completion (CD Compliance Date 9/19/17) - CD Gas Monitoring and Alarms	0		29-Sep-17 A	◆ Substantial Completion (CD Compliance Date 9/19/17) - CD Gas Monitoring and Alarms																																	
CD40250	Project Closeout - CD Gas Monitoring and Alarms	60	30-Sep-17 A	21-Mar-18 A	◆ Project Closeout - CD Gas Monitoring and Alarms																																	
Project Administration					21-Mar-18 A, Project Administration																																	
CD34210	WASD Project Administration - CD Gas Monitoring and Alarms	961	13-Apr-15 A	21-Mar-18 A	◆ WASD Project Administration - CD Gas Monitoring and Alarms																																	
2.25 Ventilation Improvements					07-Jul-21, Engineering Design																																	
Engineering Design					07-Jul-21, Engineering Design																																	
CD11320	Engineering Design - CD Ventilation Improvements	3914	11-Jun-14 A	27-Feb-25	◆ Engineering Design - CD Ventilation Improvements																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016												2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
ND11445	Owner Pre-Purchase - Procurement Electrical Equip. - ND Headworks & Sludge Degritting	71	04-Dec-14 A	12-Feb-15 A	Procurement Electrical Equip. - ND Headworks & Sludge Degritting																																									
ND20850	Owner Pre-Purchase - Procurement Screens - ND Headworks & Sludge Degritting	95	04-Dec-14 A	08-Mar-15 A	Procurement Screens - ND Headworks & Sludge Degritting																																									
ND10050	Procurement - ND Headworks & Sludge Degritting	208	08-Apr-15 A	01-Nov-15 A	Procurement - ND Headworks & Sludge Degritting																																									
ND70340	EPA Compliance Date for Procurement - ND Headworks & Sludge Degritting	0		03-Dec-15 A	EPA Compliance Date for Procurement - ND Headworks & Sludge Degritting																																									
ND11365	Owner Pre-Purchase/Fabricate/Deliver Screens - ND Headworks & Sludge Degritting	285	09-Mar-15 A	18-Dec-15 A	Owner Pre-Purchase/Fabricate/Deliver Screens - ND Headworks & Sludge Degritting																																									
ND20840	Owner Pre-Purchase - Fabricate/Deliver Electrical Equip. - ND Headworks & Sludge Degritting	981	13-Feb-15 A	15-Nov-16 A	Owner Pre-Purchase - Fabricate/Deliver Electrical Equip. - ND Headworks & Sludge Degritting																																									
Construction					30-Mar-19, Construction																																									
ND21360	Contractor NTP - ND Headworks & Sludge Degritting	0		02-Nov-15 A	Contractor NTP - ND Headworks & Sludge Degritting																																									
ND70820	EPA Start Date for Construction - ND Headworks & Sludge Degritting	0	04-Dec-15 A		EPA Start Date for Construction - ND Headworks & Sludge Degritting																																									
ND71230	Milestone #1 - Commissioning of Electrical Annex - ND Headworks & Sludge Degritting	0		27-Dec-16 A	Milestone #1 - Commissioning of Electrical Annex - ND Headworks & Sludge Degritting																																									
ND10080	Construction Phase 1: Screens - ND Headworks & Sludge Degritting	576	02-Nov-15 A	30-May-17 A	Construction Phase 1: Screens - ND Headworks & Sludge Degritting																																									
ND20830	Substantial Completion Phase 1/Milestone #2 (CD Compliance Date 4/07/18) - ND Headworks & Sludge Degritting	0		30-May-17 A	Substantial Completion Phase 1/Milestone #2 (CD Compliance Date 4/07/18) - ND Headworks & Sludge Degritting																																									
ND10170	Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting	795	02-Nov-15 A	06-Dec-17 A	Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting																																									
ND10340	Substantial Completion Phase 2 (CD Compliance Date 4/07/18) - ND Headworks & Sludge Degritting	0		06-Dec-17 A	Substantial Completion Phase 2 (CD Compliance Date 4/07/18) - ND Headworks & Sludge Degritting																																									
ND70350	EPA Compliance Date for Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting	0		07-Apr-18 A	EPA Compliance Date for Construction Phase 2: Building Improvements - ND Headworks & Sludge Degritting																																									
ND40280	Project Closeout - ND Headworks & Sludge Degritting	64	07-Dec-17 A	30-Mar-19*	Project Closeout - ND Headworks & Sludge Degritting																																									
Project Administration					30-Mar-19, Project Administration																																									
ND21500	WASD Project Administration - ND Headworks & Sludge Degritting	1816	20-Mar-13 A	30-Mar-19	WASD Project Administration - ND Headworks & Sludge Degritting																																									
3.02 Primary Clarifiers and Odor Control					06-Apr-23, 3.02 Primary Clarifiers and Odor Control																																									
Engineering Design					15-May-17 A, Engineering Design																																									
ND70830	EPA Start Date for Engineering Design - ND Primary Clarifiers & Odor Control	0	01-Nov-15 A		EPA Start Date for Engineering Design - ND Primary Clarifiers & Odor Control																																									
ND10090	Engineering Design - ND Primary Clarifiers & Odor Control	958	03-Sep-14 A	17-Apr-17 A	Engineering Design - ND Primary Clarifiers & Odor Control																																									
ND70360	EPA Compliance Date for Engineering Design - ND Primary Clarifiers & Odor Control	0		15-May-17 A	EPA Compliance Date for Engineering Design - ND Primary Clarifiers & Odor Control																																									
Permitting					10-Oct-17 A, Permitting																																									
ND70840	EPA Start Date for Permitting - ND Primary Clarifiers & Odor Control	0	10-Mar-17 A		EPA Start Date for Permitting - ND Primary Clarifiers & Odor Control																																									
ND70370	EPA Compliance Date for Permitting - ND Primary Clarifiers & Odor Control*	0		05-Sep-17 A	EPA Compliance Date for Permitting - ND Primary Clarifiers & Odor Control*																																									
ND10130	Permitting - ND Primary Clarifiers & Odor Control	733	25-Oct-15 A	10-Oct-17 A	Permitting - ND Primary Clarifiers & Odor Control																																									
Procurement					05-Dec-18 A, Procurement																																									
ND70850	EPA Start Date for Procurement - ND Primary Clarifiers & Odor Control**	0	06-Sep-17 A		EPA Start Date for Procurement - ND Primary Clarifiers & Odor Control**																																									
ND70380	EPA Compliance Date for Procurement - ND Primary Clarifiers & Odor Control	0		02-Jun-18 A	EPA Compliance Date for Procurement - ND Primary Clarifiers & Odor Control																																									
ND10210	Procurement - ND Primary Clarifiers & Odor Control	505	07-Feb-17 A	05-Dec-18 A	Procurement - ND Primary Clarifiers & Odor Control																																									
Construction					06-Apr-23, Construction																																									
ND70860	EPA Start Date for Construction - ND Primary Clarifiers & Odor Control	0	03-Jun-18 A		EPA Start Date for Construction - ND Primary Clarifiers & Odor Control																																									
ND10270	Construction - ND Primary Clarifiers & Odor Control	1308	23-Aug-17 A	30-Aug-21	Construction - ND Primary Clarifiers & Odor Control																																									
ND71790	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers & Odor Control	0		30-Aug-21	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers & Odor Control																																									
ND70390	EPA Compliance Date for Construction - ND Primary Clarifiers & Odor Control	0		06-Apr-23*	EPA Compliance Date for Construction - ND Primary Clarifiers & Odor Control																																									
3.02 (1) Replace Mechanisms for Primary Clarifiers #4 & 6					30-Mar-19, 3.02 (1) Replace Mechanisms for Primary Clarifiers #4 & 6																																									
Pre-Design					21-Dec-16 A, Pre-Design																																									
ND71280	Negotiate Scope and Cost of VFI Package (MWH) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	20	01-Dec-16 A	21-Dec-16 A	Negotiate Scope and Cost of VFI Package (MWH) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
Engineering Design					27-Jan-17 A, Engineering Design																																									
ND71250	Submit Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	23	22-Dec-16 A	13-Jan-17 A	Submit Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71260	Review Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	4	14-Jan-17 A	17-Jan-17 A	Review Draft VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71470	Engineering Design - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	37	22-Dec-16 A	27-Jan-17 A	Engineering Design - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71270	Submit Final VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	10	18-Jan-17 A	27-Jan-17 A	Submit Final VFI Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
Procurement					23-Aug-17 A, Procurement																																									
ND71380	Internal Bid Package Review - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	8	30-Jan-17 A	06-Feb-17 A	Internal Bid Package Review - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71290	Design Documents Sent to Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	07-Feb-17 A		Design Documents Sent to Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71540	GMOU submittal and approval - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	21	30-Jan-17 A	19-Feb-17 A	GMOU submittal and approval - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71300	Submit/Approve SBD Goals and Request to Advertise - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	28	07-Feb-17 A	06-Mar-17 A	Submit/Approve SBD Goals and Request to Advertise - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71310	Advertise Bid Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	07-Mar-17 A		Advertise Bid Package - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71320	Bid Solicitation Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	66	07-Mar-17 A	11-May-17 A	Bid Solicitation Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71330	Bids Due - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	12-May-17 A		Bids Due - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71340	Bid Review Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	98	12-May-17 A	17-Aug-17 A	Bid Review Period - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71350	Award Recommendation - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0		17-Aug-17 A	Award Recommendation - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71360	Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	198	07-Feb-17 A	23-Aug-17 A	Procurement - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71370	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	6	18-Aug-17 A	23-Aug-17 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
Construction					30-Mar-19, Construction																																									
ND71500	Contractor Notice to Proceed (NTP) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	23-Aug-17 A		Contractor Notice to Proceed (NTP) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71510	Construction - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	422	23-Aug-17 A	14-Feb-19	Construction - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71520	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0		14-Feb-19*	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71800	Commissioning - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	14	15-Feb-19	28-Feb-19	Commissioning - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
ND71530	Project Closeout - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	30	01-Mar-19	30-Mar-19*	Project Closeout - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
Project Administration					30-Mar-19, Project Administration																																									
ND71730	WASD Project Administration - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	696	22-Dec-16 A	30-Mar-19	WASD Project Administration - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																																									
3.02 (2) Primary Clarifiers and Odor Control (Remaining Scope of Work)					28-Nov-21, 3.02 (2) Primary Clarifiers and Odor Control (Remaining Scope of Work)																																									
Pre-Design					15 A, Pre-Design																																									
ND11375	Pre-Design (MWH) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	135	25-Mar-15 A	06-Aug-15 A	Pre-Design (MWH) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																									
Engineering Design					17-Apr-17 A, Engineering Design																																									
ND20140	Basis of Design Report (B&C) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	957	03-Sep-14 A	17-Apr-17 A	Basis of Design Report (B&C) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																									
ND20150	30% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	127	06-Aug-15 A	10-Dec-15 A	30% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																									
ND20011	30% Design Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	21	11-Dec-15 A	31-Dec-15 A	30% Design Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																									
ND20021	60% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	84	01-Jan-16 A	24-Mar-16 A	60% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																									
ND20031	60% Design Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	11	25-Mar-16 A	04-Apr-16 A	60% Design Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																									
ND20040	100% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	353	05-Apr-16 A	23-Mar-17 A	100% Design Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																									
ND71430	Engineering Design - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	958	03-Sep-14 A	17-Apr-17 A	Engineering Design - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																																									

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
ND20710	Construction - Replace Mechanisms #1, 2, 4, 5, 7, 9, & 10	556	22-Sep-15 A	30-Mar-17 A	Construction - Replace Mechanisms #1, 2, 4, 5, 7, 9, & 10																																	
ND20070	Substantial Completion (CD Compliance Date 8/24/27) - Replace Mechanisms #1-10	0		30-Mar-17 A	Substantial Completion (CD Compliance Date 8/24/27) - Replace Mechanisms #1-10																																	
ND70730	Project Closeout - Replace Mechanisms #1-10	212	31-Mar-17 A	29-Jun-17 A	Project Closeout - Replace Mechanisms #1-10																																	
Project Administration																																						
ND21540	WASD Project Administration - Replace Mechanisms #1-10	1158	28-Aug-14 A	29-Jun-17 A	WASD Project Administration - Replace Mechanisms #1-10																																	
3.05 (2) Secondary Clarifiers (Remaining Scope of Work)																																						
Pre-Design																																						
ND11405	Pre-Design - ND Secondary Clarifiers (Remaining Scope)	97	23-May-14 A	27-Aug-14 A	Pre-Design - ND Secondary Clarifiers (Remaining Scope)																																	
Engineering Design																																						
ND20320	Basis of Design Report (BODR) - ND Secondary Clarifiers	216	28-Aug-14 A	31-Mar-15 A	Basis of Design Report (BODR) - ND Secondary Clarifiers																																	
ND20330	Negotiate Scope & Cost with MWH - ND Secondary Clarifiers (Remaining Scope)	233	23-Feb-15 A	13-Oct-15 A	Negotiate Scope & Cost with MWH - ND Secondary Clarifiers (Remaining Scope)																																	
ND20335	Issue Task Authorization - ND Secondary Clarifiers (Remaining Scope)	0	18-Dec-15 A		Issue Task Authorization - ND Secondary Clarifiers (Remaining Scope)																																	
ND20340	30% Design Submittal - ND Secondary Clarifiers (Remaining Scope)	161	18-Dec-15 A	26-May-16 A	30% Design Submittal - ND Secondary Clarifiers (Remaining Scope)																																	
ND20350	30% Design Review - ND Secondary Clarifiers (Remaining Scope)	7	27-May-16 A	02-Jun-16 A	30% Design Review - ND Secondary Clarifiers (Remaining Scope)																																	
ND20360	60% Design Submittal - ND Secondary Clarifiers (Remaining Scope)	147	03-Jun-16 A	27-Oct-16 A	60% Design Submittal - ND Secondary Clarifiers (Remaining Scope)																																	
ND20370	60% Design Review - ND Secondary Clarifiers (Remaining Scope)	12	28-Oct-16 A	08-Nov-16 A	60% Design Review - ND Secondary Clarifiers (Remaining Scope)																																	
ND20380	100% Design Submittal - ND Secondary Clarifiers (Remaining Scope)	93	09-Nov-16 A	09-Feb-17 A	100% Design Submittal - ND Secondary Clarifiers (Remaining Scope)																																	
ND20090	Engineering Design - ND Secondary Clarifiers (Remaining Scope)	925	28-Aug-14 A	09-Mar-17 A	Engineering Design - ND Secondary Clarifiers (Remaining Scope)																																	
ND40490	100% Design Review/Permit Ready Submittal - ND Secondary Clarifiers (Remaining Scope)	28	10-Feb-17 A	09-Mar-17 A	100% Design Review/Permit Ready Submittal - ND Secondary Clarifiers (Remaining Scope)																																	
Permitting																																						
ND70240	FDEP Permit - ND Secondary Clarifiers (Remaining Scope)	693	27-Mar-15 A	16-Feb-17 A	FDEP Permit - ND Secondary Clarifiers (Remaining Scope)																																	
ND70250	RER Permit - ND Secondary Clarifiers (Remaining Scope)	134	15-Jun-17 A	23-Jun-17 A	RER Permit - ND Secondary Clarifiers (Remaining Scope)																																	
ND70270	Fire Department Permit - ND Secondary Clarifiers (Remaining Scope)	134	15-Jun-17 A	24-Aug-17 A	Fire Department Permit - ND Secondary Clarifiers (Remaining Scope)																																	
ND20100	Permitting - ND Secondary Clarifiers (Remaining Scope)	945	27-Mar-15 A	10-Oct-17 A	Permitting - ND Secondary Clarifiers (Remaining Scope)																																	
ND70260	City of North Miami Permit - ND Secondary Clarifiers (Remaining Scope)	186	24-Apr-17 A	10-Oct-17 A	City of North Miami Permit - ND Secondary Clarifiers (Remaining Scope)																																	
Procurement																																						
ND71560	GMOU submittal and approval - ND Secondary Clarifiers (Remaining Scope)	21	26-May-17 A	15-Jun-17 A	GMOU submittal and approval - ND Secondary Clarifiers (Remaining Scope)																																	
ND71410	Internal Bid Package Review - ND Secondary Clarifiers (Remaining Scope)	14	08-Nov-17 A	14-Dec-17 A	Internal Bid Package Review - ND Secondary Clarifiers (Remaining Scope)																																	
ND20960	Design Documents Sent to Procurement - ND Secondary Clarifiers (Remaining Scope)	0	15-Dec-17 A		Design Documents Sent to Procurement - ND Secondary Clarifiers (Remaining Scope)																																	
ND20970	Submit/Approve SBD Goals and Request to Advertise - ND Secondary Clarifiers (Remaining Scope)	60	01-Dec-17 A	21-Feb-18 A	Submit/Approve SBD Goals and Request to Advertise - ND Secondary Clarifiers (Remaining Scope)																																	
ND20980	Advertise Bid Package - ND Secondary Clarifiers (Remaining Scope)	0	22-Feb-18 A		Advertise Bid Package - ND Secondary Clarifiers (Remaining Scope)																																	
ND20990	Bid Solicitation Period - ND Secondary Clarifiers (Remaining Scope)	37	22-Feb-18 A	26-Apr-18 A	Bid Solicitation Period - ND Secondary Clarifiers (Remaining Scope)																																	
ND21000	Bids Due - ND Secondary Clarifiers (Remaining Scope)	0	27-Apr-18 A		Bids Due - ND Secondary Clarifiers (Remaining Scope)																																	
ND21010	Bid Review Period - ND Secondary Clarifiers (Remaining Scope)	30	27-Apr-18 A	02-Oct-18 A	Bid Review Period - ND Secondary Clarifiers (Remaining Scope)																																	
ND21020	Award Recommendation - ND Secondary Clarifiers (Remaining Scope)	0		02-Oct-18 A	Award Recommendation - ND Secondary Clarifiers (Remaining Scope)																																	
ND20110	Procurement - ND Secondary Clarifiers (Remaining Scope)	256	15-Dec-17 A	16-Dec-18 A	Procurement - ND Secondary Clarifiers (Remaining Scope)																																	
ND21030	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Secondary Clarifiers (Remaining Scope)	60	03-Oct-18 A	16-Dec-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Secondary Clarifiers (Remaining Scope)																																	
Construction																																						
ND20118	Contractor Notice to Proceed (NTP) - ND Secondary Clarifiers (Remaining Scope)	0	20-Dec-18 A		Contractor Notice to Proceed (NTP) - ND Secondary Clarifiers (Remaining Scope)																																	
ND20120	Construction - ND Secondary Clarifiers (Remaining Scope)	1395	20-Dec-18 A	14-Oct-22	Construction - ND Secondary Clarifiers (Remaining Scope)																																	
ND71840	Commissioning - ND Secondary Clarifiers	30	15-Sep-22	14-Oct-22	Commissioning - ND Secondary Clarifiers																																	
ND20130	3.05 (2) Substantial Completion (CD Compliance Date 8/24/27) - ND Secondary Clarifiers (Remaining Scope)	0		14-Oct-22*	3.05 (2) Substantial Completion (CD Compliance Date 8/24/27) - ND Secondary Clarifiers (Remaining Scope)																																	
ND40320	Project Closeout - ND Secondary Clarifiers	32	15-Oct-22	15-Nov-22*	Project Closeout - ND Secondary Clarifiers																																	
Project Administration																																						
ND21550	WASD Project Administration - ND Secondary Clarifiers	3545	28-Aug-14 A	15-Nov-22	WASD Project Administration - ND Secondary Clarifiers																																	
3.06 Disinfection																																						
Pre-Design																																						
ND20010	Pre-Design - ND Disinfection	114	16-Feb-15 A	10-Jun-15 A	Pre-Design - ND Disinfection																																	
Engineering Design																																						
ND20000	Review Existing Design for Storm Surge & Code Changes - ND Disinfection	253	21-Apr-14 A	29-Dec-14 A	Review Existing Design for Storm Surge & Code Changes - ND Disinfection																																	
ND20020	Revise Design for Code and Storm Surge Changes - ND Disinfection	267	11-Jun-15 A	03-Mar-16 A	Revise Design for Code and Storm Surge Changes - ND Disinfection																																	
ND10190	Engineering Design - ND Disinfection	826	21-Apr-14 A	24-Jul-16 A	Engineering Design - ND Disinfection																																	
ND71000	EPA Start Date for Engineering Design - ND Disinfection	0	01-Feb-17 A		EPA Start Date for Engineering Design - ND Disinfection																																	
ND70520	EPA Compliance Date for Engineering Design - ND Disinfection	0		06-Apr-17 A	EPA Compliance Date for Engineering Design - ND Disinfection																																	
Permitting																																						
ND70770	City of N. Miami Permit - ND Disinfection	22	25-Jul-16 A	15-Aug-16 A	City of N. Miami Permit - ND Disinfection																																	
ND71010	EPA Start Date for Permitting - ND Disinfection	0	07-Apr-17 A		EPA Start Date for Permitting - ND Disinfection																																	
ND70780	DERM Permit - ND Disinfection	443	15-Aug-16 A	22-Nov-17 A	DERM Permit - ND Disinfection																																	
ND70530	EPA Compliance Date for Permitting - ND Disinfection	0		06-Apr-18 A	EPA Compliance Date for Permitting - ND Disinfection																																	
ND71880	FDEP Permit - ND Disinfection	43	31-Oct-18 A	13-Nov-18 A	FDEP Permit - ND Disinfection																																	
ND10200	Permitting - ND Disinfection	464	25-Jul-16 A	31-Jan-19	Permitting - ND Disinfection																																	
ND71870	Bldg Dept, RER, Fire Dept - City of North Miami Permit - ND Disinfection	112	23-Aug-18 A	31-Jan-19	Bldg Dept, RER, Fire Dept - City of North Miami Permit - ND Disinfection																																	
Procurement																																						
ND71590	GMOU submittal and approval - ND Disinfection	26	04-Aug-17 A	29-Aug-17 A	GMOU submittal and approval - ND Disinfection																																	
ND71420	Internal Bid Package Review - ND Disinfection	28	09-Aug-17 A	05-Sep-17 A	Internal Bid Package Review - ND Disinfection																																	
ND21040	Design Documents Sent to Procurement - ND Disinfection	0	21-Nov-17 A		Design Documents Sent to Procurement - ND Disinfection																																	
ND21050	Submit/Approve SBD Goals and Request to Advertise - ND Disinfection	60	05-Oct-17 A	04-Jan-18 A	Submit/Approve SBD Goals and Request to Advertise - ND Disinfection																																	
ND21060	Advertise Bid Package - ND Disinfection	0	05-Jan-18 A		Advertise Bid Package - ND Disinfection																																	
ND21070	Bid Solicitation Period - ND Disinfection	60	05-Jan-18 A	07-Mar-18 A	Bid Solicitation Period - ND Disinfection																																	
ND21080	Bids Due - ND Disinfection	0	08-Mar-18 A		Bids Due - ND Disinfection																																	
ND71020	EPA Start Date for Procurement - ND Disinfection	0	07-Apr-18 A		EPA Start Date for Procurement - ND Disinfection																																	
ND21090	Bid Review Period - ND Disinfection	30	08-Mar-18 A	30-Aug-18 A	Bid Review Period - ND Disinfection																																	
ND21100	Award Recommendation - ND Disinfection	0		30-Aug-18 A	Award Recommendation - ND Disinfection																																	
ND10260	Procurement - ND Disinfection	227	21-Nov-17 A	10-Sep-18 A	Procurement - ND Disinfection																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023		2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
ND11435	Pre-Design - ND Secondary Clarifiers	1	06-Apr-15 A	06-Apr-15 A	Secondary Clarifiers																															
Engineering Design		832	06-Apr-15 A	16-Jul-17 A	16-Jul-17 A, Engineering Design																															
ND10100	Engineering Design - ND Yard Piping Replacement	0	06-Apr-15 A	06-Apr-15 A	Engineering Design - ND Yard Piping Replacement																															
ND71160	EPA Start Date for Engineering Design - ND Yard Piping Replacement	0	10-Apr-16 A		EPA Start Date for Engineering Design - ND Yard Piping Replacement																															
ND70680	EPA Compliance Date for Engineering Design - ND Yard Piping Replacement	0		16-Jul-17 A	EPA Compliance Date for Engineering Design - ND Yard Piping Replacement																															
Permitting		1031	06-Apr-15 A	12-Jan-18 A	12-Jan-18 A, Permitting																															
ND10150	Permitting - ND Yard Piping Replacement	1	06-Apr-15 A	06-Apr-15 A	Permitting - ND Yard Piping Replacement																															
ND71170	EPA Start Date for Permitting - ND Yard Piping Replacement	0	17-Jul-17 A		EPA Start Date for Permitting - ND Yard Piping Replacement																															
ND70690	EPA Compliance Date for Permitting - ND Yard Piping Replacement	0		12-Jan-18 A	EPA Compliance Date for Permitting - ND Yard Piping Replacement																															
Procurement		1305	05-Apr-15 A	09-Oct-18 A	09-Oct-18 A, Procurement																															
ND10240	Procurement - ND Yard Piping Replacement	2	05-Apr-15 A	06-Apr-15 A	Procurement - ND Yard Piping Replacement																															
ND71180	EPA Start Date for Procurement - ND Yard Piping Replacement	0	13-Jan-18 A		EPA Start Date for Procurement - ND Yard Piping Replacement																															
ND70700	EPA Compliance Date for Procurement - ND Yard Piping Replacement	0		09-Oct-18 A	EPA Compliance Date for Procurement - ND Yard Piping Replacement																															
Construction		2386	25-May-15 A	04-Dec-21	04-Dec-21, Construction																															
ND20870	Rehab 1st 84" Pipe - ND Yard Piping Replacement	123	25-May-15 A	24-Sep-15 A	Rehab 1st 84" Pipe - ND Yard Piping Replacement																															
ND10290	Construction - ND Yard Piping Replacement	366	25-May-15 A	24-May-16 A	Construction - ND Yard Piping Replacement																															
ND20860	Rehab 2nd 84" Pipe - ND Yard Piping Replacement	83	03-Mar-16 A	24-May-16 A	Rehab 2nd 84" Pipe - ND Yard Piping Replacement																															
ND10440	Substantial Completion (CD Compliance Date 12/04/21) - ND Yard Piping Replacement	0		24-May-16 A	Substantial Completion (CD Compliance Date 12/04/21) - ND Yard Piping Replacement																															
ND71190	EPA Start Date for Construction - ND Yard Piping Replacement	0	10-Oct-18 A		EPA Start Date for Construction - ND Yard Piping Replacement																															
ND70710	EPA Compliance Date for Construction - ND Yard Piping Replacement	0		04-Dec-21*	EPA Compliance Date for Construction - ND Yard Piping Replacement																															
Project Administration		414	06-Apr-15 A	24-May-16 A	24-May-16 A, Project Administration																															
ND21600	WASD Project Administration - ND Secondary Clarifiers	415	06-Apr-15 A	24-May-16 A	WASD Project Administration - ND Secondary Clarifiers																															
3.11 SCADA RTU Upgrades		540	30-Sep-13 A	24-Mar-15 A	30-Sep-13 A, 24-Mar-15 A, SCADA RTU Upgrades																															
Construction		540	30-Sep-13 A	24-Mar-15 A	30-Sep-13 A, 24-Mar-15 A, Construction																															
ND71200	EPA Start Date for Construction - ND SCADA RTU Upgrades	0	01-Oct-13 A		EPA Start Date for Construction - ND SCADA RTU Upgrades																															
ND10020	Construction - ND SCADA RTU Upgrades	423	30-Sep-13 A	26-Nov-14 A	Construction - ND SCADA RTU Upgrades																															
ND10070	Substantial Completion (CD Compliance Date 3/24/15) - ND SCADA RTU Upgrades	0		26-Nov-14 A	Substantial Completion (CD Compliance Date 3/24/15) - ND SCADA RTU Upgrades																															
ND70720	EPA Compliance Date for Construction - ND SCADA RTU Upgrades	0		24-Mar-15 A	EPA Compliance Date for Construction - ND SCADA RTU Upgrades																															
Project Administration		422	30-Sep-13 A	26-Nov-14 A	30-Sep-13 A, 26-Nov-14 A, Project Administration																															
ND71780	WASD Project Administration - ND SCADA RTU Upgrades	423	30-Sep-13 A	26-Nov-14 A	WASD Project Administration - ND SCADA RTU Upgrades																															
4. Wastewater Collection & Transmission Line		5841	01-Oct-11 A	27-Sep-27	01-Oct-11 A, 27-Sep-27, Wastewater Collection & Transmission Line																															
4.01 Collection System II Repairs		5110	01-Oct-13 A	27-Sep-27	01-Oct-13 A, 27-Sep-27, Collection System II Repairs																															
Construction		5110	01-Oct-13 A	27-Sep-27	01-Oct-13 A, 27-Sep-27, Construction																															
CT71230	EPA Start Date for Construction - Collection System II Repair	0	01-Oct-13 A		EPA Start Date for Construction - Collection System II Repair																															
CT10070	Construction - Collection System II Repair	4161	01-Oct-13 A	27-Sep-27	Construction - Collection System II Repair																															
CT10430	Substantial Completion (CD Compliance Date 9/27/27) - Collection System II Repair	0		27-Sep-27*	Substantial Completion (CD Compliance Date 9/27/27) - Collection System II Repair																															
CT50590	EPA Compliance Date for Construction - Collection System II Repair	0		27-Sep-27*	EPA Compliance Date for Construction - Collection System II Repair																															
4.01 (1.0) - PMCM CIPP II Repairs		3673	01-Feb-15 A	31-Jul-18 A	01-Feb-15 A, 31-Jul-18 A, PMCM CIPP II Repairs																															
Engineering Design		1065	01-Feb-15 A	15-Aug-17 A	01-Feb-15 A, 15-Aug-17 A, Engineering Design																															
CT30000	CIPP Specifications & Scope to MDWASD - 2015/2016 Fiscal Year	18	01-Feb-15 A	18-Feb-15 A	CIPP Specifications & Scope to MDWASD - 2015/2016 Fiscal Year																															
CT30090	CIPP Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (PO 168)	55	01-May-16 A	24-Jun-16 A	CIPP Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (PO 168)																															
CT30220	CIPP Specifications & Scope to MDWASD - 2017/2018 Fiscal Year	245	01-May-17 A	15-Aug-17 A	CIPP Specifications & Scope to MDWASD - 2017/2018 Fiscal Year																															
Procurement		730	01-Feb-15 A	31-Jan-17 A	01-Feb-15 A, 31-Jan-17 A, Procurement																															
CT30010	CIPP Contractor Procurement - 2015/2016 Fiscal Year	303	01-Feb-15 A	30-Nov-15 A	CIPP Contractor Procurement - 2015/2016 Fiscal Year																															
CT30120	CIPP Contractor Procurement - 2016/2017 Fiscal Year (RPQ PO 193)	183	02-Aug-16 A	31-Jan-17 A	CIPP Contractor Procurement - 2016/2017 Fiscal Year (RPQ PO 193)																															
Construction		968	07-Dec-15 A	31-Jul-18 A	07-Dec-15 A, 31-Jul-18 A, Construction																															
CT30060	CIPP Contract (Construction) - 2015/2016 Fiscal Year (PO 168)	446	07-Dec-15 A	24-Feb-17 A	CIPP Contract (Construction) - 2015/2016 Fiscal Year (PO 168)																															
CT30150	CIPP Contract (Construction) - 2016/2017 Fiscal Year (PO 193)	365	01-Aug-17 A	31-Jul-18 A	CIPP Contract (Construction) - 2016/2017 Fiscal Year (PO 193)																															
Project Administration		3673	01-Feb-15 A	31-Jul-18 A	01-Feb-15 A, 31-Jul-18 A, Project Administration																															
CT80720	WASD Project Administration - PMCM CIPP II Repairs	3673	01-Feb-15 A	31-Jul-18 A	WASD Project Administration - PMCM CIPP II Repairs																															
4.01 (1.1) - PMCM Dig & Replace II Repairs		3624	01-Mar-15 A	22-Jul-18 A	01-Mar-15 A, 22-Jul-18 A, PMCM Dig & Replace II Repairs																															
Engineering Design		1037	01-Mar-15 A	15-Aug-17 A	01-Mar-15 A, 15-Aug-17 A, Engineering Design																															
CT30020	Dig & Replace Specifications & Scope to MDWASD - 2015/2016 Fiscal Year	10	01-Mar-15 A	10-Mar-15 A	Dig & Replace Specifications & Scope to MDWASD - 2015/2016 Fiscal Year																															
CT30100	Dig & Replace Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (T2229)	93	01-May-16 A	01-Aug-16 A	Dig & Replace Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (T2229)																															
CT30180	Dig & Replace Specifications & Scope to MDWASD - 2017/2018 Fiscal Year	185	30-Jun-17 A	15-Aug-17 A	Dig & Replace Specifications & Scope to MDWASD - 2017/2018 Fiscal Year																															
Procurement		687	01-Mar-15 A	16-Jan-17 A	01-Mar-15 A, 16-Jan-17 A, Procurement																															
CT38000	Dig & Replace Contractor B Procurement - 2015/2016 Fiscal Year	232	01-Mar-15 A	18-Oct-15 A	Dig & Replace Contractor B Procurement - 2015/2016 Fiscal Year																															
CT30040	Dig & Replace Contractor A Procurement - 2015/2016 Fiscal Year	239	01-Mar-15 A	25-Oct-15 A	Dig & Replace Contractor A Procurement - 2015/2016 Fiscal Year																															
CT38010	Dig & Replace Contractor C Procurement - 2015/2016 Fiscal Year	324	01-Mar-15 A	18-Jan-16 A	Dig & Replace Contractor C Procurement - 2015/2016 Fiscal Year																															
CT30130	Dig & Replace Contractor Procurement - 2016/2017 Fiscal Year (T2229)	168	02-Aug-16 A	16-Jan-17 A	Dig & Replace Contractor Procurement - 2016/2017 Fiscal Year (T2229)																															
Construction		981	19-Oct-15 A	22-Jul-18 A	19-Oct-15 A, 22-Jul-18 A, Construction																															
CT38020	Dig & Replace Contract B (Construction) - 2015/2016 Fiscal Year	366	19-Oct-15 A	18-Oct-16 A	Dig & Replace Contract B (Construction) - 2015/2016 Fiscal Year																															
CT30070	Dig & Replace Contract A (Construction) - 2015/2016 Fiscal Year	366	26-Oct-15 A	25-Oct-16 A	Dig & Replace Contract A (Construction) - 2015/2016 Fiscal Year																															
CT38030	Dig & Replace Contract C (Construction) - 2015/2016 Fiscal Year	365	18-Jan-16 A	16-Jan-17 A	Dig & Replace Contract C (Construction) - 2015/2016 Fiscal Year																															
CT30160	Dig & Replace Contract Countywide (Construction) - 2016/2017 Fiscal Year (T2229)	365	26-Jun-17 A	22-Jul-18 A	Dig & Replace Contract Countywide (Construction) - 2016/2017 Fiscal Year (T2229)																															
Project Administration		3624	01-Mar-15 A	25-Jan-18 A	01-Mar-15 A, 25-Jan-18 A, Project Administration																															
CT80730	WASD Project Administration - PMCM Dig & Replace II Repairs	3624	01-Mar-15 A	25-Jan-18 A	WASD Project Administration - PMCM Dig & Replace II Repairs																															
4.01 (1.2) - PMCM SSES II		1462	01-Mar-15 A	28-Nov-17 A	01-Mar-15 A, 28-Nov-17 A, PMCM SSES II																															
Engineering Design		536	01-Mar-15 A	18-Aug-16 A	01-Mar-15 A, 18-Aug-16 A, Engineering Design																															
CT30030	SSES Specifications & Scope to MDWASD - 2015/2016 Fiscal Year	10	01-Mar-15 A	10-Mar-15 A	SSES Specifications & Scope to MDWASD - 2015/2016 Fiscal Year																															
CT30110	SSES Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (T2231)	74	06-Jun-16 A	18-Aug-16 A	SSES Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (T2231)																															
Procurement		726	01-Mar-15 A	24-Feb-17 A	01-Mar-15 A, 24-Feb-17 A, Procurement																															
CT38040	SSES (CCTV) Procurement - 2015/2016 Fiscal Year	360	01-Mar-15 A	23-Feb-16 A	SSES (CCTV) Procurement - 2015/2016 Fiscal Year																															
CT30140	SSES Contractor Procurement - 2016/2017 Fiscal Year (T2231)	191	18-Aug-16 A	24-Feb-17 A	SSES Contractor Procurement - 2016/2017 Fiscal Year (T2231)																															
Construction		780	14-Mar-16 A	18-Aug-17 A	14-Mar-16 A, 18-Aug-17 A, Construction																															

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CT38050	SSES Construction (CCTV) - 2015/2016 Fiscal Year (T2101)	366	14-Mar-16 A	14-Mar-17 A	SSES Construction (CCTV) - 2015/2016 Fiscal Year (T2101)																																	
CT30170	SSES Contract (Construction) - 2016/2017 Fiscal Year (T2231)	395	03-Apr-17 A	18-Aug-17 A	SSES Contract (Construction) - 2016/2017 Fiscal Year (T2231)																																	
Project Administration					Project Administration																																	
CT80740	WASD Project Administration - PMCM SSES VI	1462	01-Mar-15 A	28-Nov-17 A	WASD Project Administration - PMCM SSES VI																																	
4.01 (2) - PSIP Program VI Repairs					4.01 (2) - PSIP Program VI Repairs																																	
Construction					Construction																																	
CT22790	Construction - PSIP Program VI Repair (MDWASD)	1188	01-Oct-13 A	31-Dec-16 A	Construction - PSIP Program VI Repair (MDWASD)																																	
Project Administration					Project Administration																																	
CT80750	WASD Project Administration - PSIP Program VI Repair (MDWASD)	1188	01-Oct-13 A	31-Dec-16 A	WASD Project Administration - PSIP Program VI Repair (MDWASD)																																	
4.01 (3) - MDWASD CM Team VI Repairs					4.01 (3) - MDWASD CM Team VI Repairs																																	
Construction					Construction																																	
CT33301	Construction -MDWASD CM Team VI Repair (MDWASD)	3736	01-Oct-13 A	27-Sep-27	Construction -MDWASD CM Team VI Repair (MDWASD)																																	
Project Administration					Project Administration																																	
CT80760	WASD Project Administration -MDWASD CM Team VI Repair (MDWASD)	3736	01-Oct-13 A	27-Sep-27	WASD Project Administration -MDWASD CM Team VI Repair (MDWASD)																																	
4.01 (4) - WWCTLD WASD In-House VI Repairs					4.01 (4) - WWCTLD WASD In-House VI Repairs																																	
Construction					Construction																																	
CT33302	Construction - WWCTLD WASD In-House VI Repair (MDWASD)	3742	01-Oct-13 A	27-Sep-27	Construction - WWCTLD WASD In-House VI Repair (MDWASD)																																	
Project Administration					Project Administration																																	
CT80770	WASD Project Administration - WWCTLD WASD In-House VI Repair (MDWASD)	3742	01-Oct-13 A	27-Sep-27	WASD Project Administration - WWCTLD WASD In-House VI Repair (MDWASD)																																	
4.02 Government Cut FM - Phase 1&2					4.02 Government Cut FM - Phase 1&2																																	
Construction					Construction																																	
CT71240	EPA Start Date for Construction - Government Cut FM Phase 1 & 2	0	01-Oct-12 A	30-Sep-13 A	EPA Start Date for Construction - Government Cut FM Phase 1 & 2																																	
CT10010	Construction - Government Cut FM Phase 1 & 2	731	01-Oct-11 A	30-Sep-13 A	Construction - Government Cut FM Phase 1 & 2																																	
CT10030	Substantial Completion (CD Compliance Date 9/30/13) - Government Cut FM Phase 1 & 2	0		30-Sep-13 A	Substantial Completion (CD Compliance Date 9/30/13) - Government Cut FM Phase 1 & 2																																	
CT50600	EPA Compliance Date for Construction - Government Cut FM Phase 1 & 2	0		30-Sep-13 A	EPA Compliance Date for Construction - Government Cut FM Phase 1 & 2																																	
Project Administration					Project Administration																																	
CT80780	WASD Project Administration - Government Cut FM Phase 1 & 2	731	01-Oct-11 A	30-Sep-13 A	WASD Project Administration - Government Cut FM Phase 1 & 2																																	
4.03 Government Cut FM - Phase 3					4.03 Government Cut FM - Phase 3																																	
Engineering Design					Engineering Design																																	
CT71250	EPA Start Date for Engineering Design - Government Cut FM Phase 3	0	30-Jan-13 A	22-Jan-14 A	EPA Start Date for Engineering Design - Government Cut FM Phase 3																																	
CT10000	Engineering Design (DCP) - Government Cut FM Phase 3	358	30-Jan-13 A	22-Jan-14 A	Engineering Design (DCP) - Government Cut FM Phase 3																																	
CT50610	EPA Compliance Date for Engineering Design - Government Cut FM Phase 3	0		22-Jan-14 A	EPA Compliance Date for Engineering Design - Government Cut FM Phase 3																																	
Procurement					Procurement																																	
CT10170	Procurement - Government Cut FM Phase 3	798	28-Feb-13 A	07-May-15 A	Procurement - Government Cut FM Phase 3																																	
CT71260	EPA Start Date for Procurement - Government Cut FM Phase 3	0	08-May-14 A		EPA Start Date for Procurement - Government Cut FM Phase 3																																	
CT50620	EPA Compliance Date for Procurement - Government Cut FM Phase 3	0		07-May-15 A	EPA Compliance Date for Procurement - Government Cut FM Phase 3																																	
Design-Build					Design-Build																																	
CT71270	EPA Start Date for Construction - Government Cut FM Phase 3	0	08-May-15 A		EPA Start Date for Construction - Government Cut FM Phase 3																																	
CT10020	Permitting - Government Cut FM Phase 3	444	02-May-14 A	19-Jul-15 A	Permitting - Government Cut FM Phase 3																																	
CT22250	Final Design (Design-Builder) - Government Cut FM Phase 3	589	23-Jan-14 A	03-Sep-15 A	Final Design (Design-Builder) - Government Cut FM Phase 3																																	
CT10250	Construction - Government Cut FM Phase 3	916	23-May-14 A	23-Nov-16 A	Construction - Government Cut FM Phase 3																																	
CT10360	Substantial Completion (CD Compliance Date 4/08/17) - Government Cut FM Phase 3	0		23-Nov-16 A	Substantial Completion (CD Compliance Date 4/08/17) - Government Cut FM Phase 3																																	
CT40380	Project Closeout - Government Cut FM Phase 3	90	24-Nov-16 A	21-Feb-17 A	Project Closeout - Government Cut FM Phase 3																																	
CT50630	EPA Compliance Date for Construction - Government Cut FM Phase 3	0		08-Apr-17 A	EPA Compliance Date for Construction - Government Cut FM Phase 3																																	
Project Administration					Project Administration																																	
CT38440	WASD Project Administration - Government Cut FM Phase 3	1483	30-Jan-13 A	21-Feb-17 A	WASD Project Administration - Government Cut FM Phase 3																																	
4.04 North Dade 72 inch PCCP FM Rehabilitation					4.04 North Dade 72 inch PCCP FM Rehabilitation																																	
Engineering Design					Engineering Design																																	
CT71290	EPA Start Date for Engineering Design - North Dade 72" PCCP FM Rehab	0	01-Oct-13 A		EPA Start Date for Engineering Design - North Dade 72" PCCP FM Rehab																																	
CT10050	Engineering Design (DCP) - North Dade 72" PCCP FM Rehab	279	13-May-13 A	15-Feb-14 A	Engineering Design (DCP) - North Dade 72" PCCP FM Rehab																																	
CT50640	EPA Compliance Date for Engineering Design - North Dade 72" PCCP FM Rehab	0		06-Mar-14 A	EPA Compliance Date for Engineering Design - North Dade 72" PCCP FM Rehab																																	
Permitting					Permitting																																	
CT71300	EPA Start Date for Permitting - North Dade 72" PCCP FM Rehab	0	04-Oct-14 A		EPA Start Date for Permitting - North Dade 72" PCCP FM Rehab																																	
CT50650	EPA Compliance Date for Permitting - North Dade 72" PCCP FM Rehab**	0		06-Mar-15 A	EPA Compliance Date for Permitting - North Dade 72" PCCP FM Rehab**																																	
CT10150	Permitting - North Dade 72" PCCP FM Rehab	263	10-Mar-15 A	27-Nov-15 A	Permitting - North Dade 72" PCCP FM Rehab																																	
Procurement					Procurement																																	
CT10230	Procurement - North Dade 72" PCCP FM Rehab	761	03-Feb-14 A	05-Mar-16 A	Procurement - North Dade 72" PCCP FM Rehab																																	
CT71310	EPA Start Date for Procurement - North Dade 72" PCCP FM Rehab	0	07-Mar-15 A		EPA Start Date for Procurement - North Dade 72" PCCP FM Rehab																																	
CT50660	EPA Compliance Date for Procurement - North Dade 72" PCCP FM Rehab	0		05-Mar-16 A	EPA Compliance Date for Procurement - North Dade 72" PCCP FM Rehab																																	
Design-Build					Design-Build																																	
CT22240	Final Design (Design-Builder) - North Dade 72" PCCP FM Rehab	1117	10-Mar-15 A	05-Mar-18 A	Final Design (Design-Builder) - North Dade 72" PCCP FM Rehab																																	
CT10310	Construction - North Dade 72" PCCP FM Rehab	179	10-Mar-15 A	04-Sep-15 A	Construction - North Dade 72" PCCP FM Rehab																																	
CT10410	Substantial Completion (CD Compliance Date 3/05/18) - North Dade 72" PCCP FM Rehab	219	30-Sep-15 A	05-May-16 A	Substantial Completion (CD Compliance Date 3/05/18) - North Dade 72" PCCP FM Rehab																																	
CT40390	Project Closeout - North Dade 72" PCCP FM Rehab	0		05-May-16 A	Project Closeout - North Dade 72" PCCP FM Rehab																																	
CT71320	EPA Start Date for Construction - North Dade 72" PCCP FM Rehab	240	06-May-16 A	31-Dec-16 A	EPA Start Date for Construction - North Dade 72" PCCP FM Rehab																																	
CT50670	EPA Compliance Date for Construction - North Dade 72" PCCP FM Rehab	0		09-Jul-17 A	EPA Compliance Date for Construction - North Dade 72" PCCP FM Rehab																																	
Project Administration					Project Administration																																	
CT38430	WASD Project Administration - North Dade 72" PCCP FM Rehab	1328	13-May-13 A	31-Dec-16 A	WASD Project Administration - North Dade 72" PCCP FM Rehab																																	
4.05 South Dade 54 inch PCCP FM Rehabilitation					4.05 South Dade 54 inch PCCP FM Rehabilitation																																	
Engineering Design					Engineering Design																																	
CT71330	EPA Start Date for Engineering Design - South Dade 54" PCCP FM Rehab**	422	05-Aug-14 A	01-Oct-15 A	EPA Start Date for Engineering Design - South Dade 54" PCCP FM Rehab**																																	
CT50680	EPA Compliance Date for Engineering Design - South Dade 54" PCCP FM Rehab**	0		20-Feb-15 A	EPA Compliance Date for Engineering Design - South Dade 54" PCCP FM Rehab**																																	
CT10060	Engineering Design - South Dade 54" PCCP FM Rehab	423	05-Aug-14 A	01-Oct-15 A	Engineering Design - South Dade 54" PCCP FM Rehab																																	
Permitting					Permitting																																	
CT71340	EPA Start Date for Permitting - South Dade 54" PCCP FM Rehab	446	14-Oct-15 A	02-Jan-17 A	EPA Start Date for Permitting - South Dade 54" PCCP FM Rehab																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016 - 2024																																	
					2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CT50770	EPA Compliance Date for Permitting - Replace 18" DIP FM in Miami Lakes	0		05-Mar-15 A	EPA Compliance Date for Permitting - Replace 18" DIP FM in Miami Lakes																																	
Procurement		497	24-Oct-14 A	04-Mar-16 A	Procurement - Replace 18" DIP FM in Miami Lakes																																	
CT71430	EPA Start Date for Procurement - Replace 18" DIP FM in Miami Lakes	0	06-Mar-15 A		EPA Start Date for Procurement - Replace 18" DIP FM in Miami Lakes																																	
CT10220	Procurement - Replace 18" DIP FM in Miami Lakes	221	24-Oct-14 A	01-Jun-15 A	Procurement - Replace 18" DIP FM in Miami Lakes																																	
CT50780	EPA Compliance Date for Procurement - Replace 18" DIP FM in Miami Lakes	0		04-Mar-16 A	EPA Compliance Date for Procurement - Replace 18" DIP FM in Miami Lakes																																	
Construction		677	02-Jun-15 A	09-Apr-17 A	Construction - Replace 18" DIP FM in Miami Lakes																																	
CT10300	Construction - Replace 18" DIP FM in Miami Lakes	189	02-Jun-15 A	07-Dec-15 A	Construction - Replace 18" DIP FM in Miami Lakes																																	
CT10370	Substantial Completion (CD Compliance Date 4/09/17) - Replace 18" DIP FM in Miami Lakes	0		07-Dec-15 A	Substantial Completion (CD Compliance Date 4/09/17) - Replace 18" DIP FM in Miami Lakes																																	
CT71440	EPA Start Date for Construction - Replace 18" DIP FM in Miami Lakes	0	05-Mar-16 A		EPA Start Date for Construction - Replace 18" DIP FM in Miami Lakes																																	
CT40420	Project Closeout - Replace 18" DIP FM in Miami Lakes	220	08-Dec-15 A	14-Jul-16 A	Project Closeout - Replace 18" DIP FM in Miami Lakes																																	
CT50790	EPA Compliance Date for Construction - Replace 18" DIP FM in Miami Lakes	0		09-Apr-17 A	EPA Compliance Date for Construction - Replace 18" DIP FM in Miami Lakes																																	
Project Administration		1586	11-Mar-12 A	14-Jul-16 A	WASD Project Administration - Replace 18" DIP FM in Miami Lakes																																	
CT38400	WASD Project Administration - Replace 18" DIP FM in Miami Lakes	1587	11-Mar-12 A	14-Jul-16 A	WASD Project Administration - Replace 18" DIP FM in Miami Lakes																																	
4.08 Rehabilitation of 54 inch PCCP FM in the City					15-Jan-19, 4.08 Rehabilitation of 54 inch PCCP FM in the City																																	
Engineering Design		401	06-Oct-14 A	11-Nov-15 A	Engineering Design - Rehab 54" PCCP FM in the City**																																	
CT71450	EPA Start Date for Engineering Design - Rehab 54" PCCP FM in the City**	0	06-Oct-14 A		EPA Start Date for Engineering Design - Rehab 54" PCCP FM in the City**																																	
CT50800	EPA Compliance Date for Engineering Design - Rehab 54" PCCP FM in the City**	0		03-Apr-15 A	EPA Compliance Date for Engineering Design - Rehab 54" PCCP FM in the City**																																	
CT10080	Engineering Design (DCP) - Rehab 54" PCCP FM in the City	245	12-Mar-15 A	11-Nov-15 A	Engineering Design (DCP) - Rehab 54" PCCP FM in the City																																	
Permitting		269	04-Apr-15 A	29-Dec-15 A	Permitting - Rehab 54" PCCP FM in the City																																	
CT71460	EPA Start Date for Permitting - Rehab 54" PCCP FM in the City**	0	04-Apr-15 A		EPA Start Date for Permitting - Rehab 54" PCCP FM in the City**																																	
CT10130	Permitting - Rehab 54" PCCP FM in the City	12	11-Jul-15 A	22-Jul-15 A	Permitting - Rehab 54" PCCP FM in the City																																	
CT50820	EPA Compliance Date for Permitting - Rehab 54" PCCP FM in the City	0		29-Dec-15 A	EPA Compliance Date for Permitting - Rehab 54" PCCP FM in the City																																	
Procurement		570	06-Mar-15 A	26-Sep-16 A	Procurement - Rehab 54" PCCP FM in the City**																																	
CT71470	EPA Start Date for Procurement - Rehab 54" PCCP FM in the City**	0	06-Mar-15 A		EPA Start Date for Procurement - Rehab 54" PCCP FM in the City**																																	
CT50810	10/25/18	0		08-Jul-16 A	10/25/18																																	
CT10210	Procurement - Rehab 54" PCCP FM in the City	248	23-Jan-16 A	26-Sep-16 A	Procurement - Rehab 54" PCCP FM in the City																																	
Construction		269	20-Sep-16 A	16-Jun-17 A	Construction - Rehab 54" PCCP FM in the City																																	
CT71480	EPA Start Date for Construction - Rehab 54" PCCP FM in the City**	0	20-Sep-16 A		EPA Start Date for Construction - Rehab 54" PCCP FM in the City**																																	
CT50830	EPA Compliance Date for Construction - Rehab 54" PCCP FM in the City**	0		09-Apr-17 A	EPA Compliance Date for Construction - Rehab 54" PCCP FM in the City**																																	
CT10290	Construction - Rehab 54" PCCP FM in the City	263	27-Sep-16 A	16-Jun-17 A	Construction - Rehab 54" PCCP FM in the City																																	
4.08 (1) Rehab 2 Miles of 54 inch PCCP FM (Consent Decree)					16-Jun-17 A, 4.08 (1) Rehab 2 Miles of 54 inch PCCP FM (Consent Decree)																																	
Pre-Design		135	27-Oct-14 A	11-Mar-15 A	Design - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT22070	Pre-Design - Rehab 2 Miles of 54" PCCP FM in the City	136	27-Oct-14 A	11-Mar-15 A	Pre-Design - Rehab 2 Miles of 54" PCCP FM in the City																																	
Engineering Design		372	12-Mar-15 A	18-Mar-16 A	Engineering Design - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT22060	Basis of Design Report (BODR) - Rehab 2 Miles of 54" PCCP FM in the City	121	12-Mar-15 A	10-Jul-15 A	Basis of Design Report (BODR) - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT22620	BODR Design Review - Rehab 2 Miles of 54" PCCP FM in the City	12	11-Jul-15 A	22-Jul-15 A	BODR Design Review - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT38120	As-Built Design Submittal - Rehab 2 Miles of 54" PCCP FM in the City	42	01-Oct-15 A	11-Nov-15 A	As-Built Design Submittal - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT37350	Negotiate Scope & Fee of Remaining Design - Rehab 2 Miles of 54" PCCP FM in the City	260	30-Mar-15 A	14-Dec-15 A	Negotiate Scope & Fee of Remaining Design - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT80420	Engineering Design - Rehab 2 Miles of 54" PCCP FM in the City	373	12-Mar-15 A	18-Mar-16 A	Engineering Design - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT22100	Develop Performance Specifications - Rehab 2 Miles of 54" PCCP FM in the City	170	01-Oct-15 A	18-Mar-16 A	Develop Performance Specifications - Rehab 2 Miles of 54" PCCP FM in the City																																	
Permitting		11	11-Jul-15 A	22-Jul-15 A	Permitting - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT22110	Permitting - Rehab 2 Miles of 54" PCCP FM in the City	12	11-Jul-15 A	22-Jul-15 A	Permitting - Rehab 2 Miles of 54" PCCP FM in the City																																	
Procurement		247	23-Jan-16 A	26-Sep-16 A	Procurement - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT33021	Submit/Approve SBD Goals - Rehab 2 Miles of 54" PCCP FM in the City	21	23-Jan-16 A	12-Feb-16 A	Submit/Approve SBD Goals - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT33011	Design Documents Sent to Procurement - Rehab 2 Miles of 54" PCCP FM in the City	0	18-Apr-16 A		Design Documents Sent to Procurement - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT33031	Advertise Bid Package - Rehab 2 Miles of 54" PCCP FM in the City	0	25-May-16 A		Advertise Bid Package - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT33041	Bid Solicitation Period - Rehab 2 Miles of 54" PCCP FM in the City	43	25-May-16 A	06-Jul-16 A	Bid Solicitation Period - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT33051	Bids Due - Rehab 2 Miles of 54" PCCP FM in the City	0	07-Jul-16 A		Bids Due - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT33061	Bid Review Period - Rehab 2 Miles of 54" PCCP FM in the City	44	07-Jul-16 A	19-Aug-16 A	Bid Review Period - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT33071	Award Recommendation - Rehab 2 Miles of 54" PCCP FM in the City	0		19-Aug-16 A	Award Recommendation - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT50940	Bid Protest - Rehab 2 Miles of 54" PCCP FM in the City	31	24-Aug-16 A	23-Sep-16 A	Bid Protest - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT22120	Procurement - Rehab 2 Miles of 54" PCCP FM in the City	162	18-Apr-16 A	26-Sep-16 A	Procurement - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT33081	Final Approvals (BCC, Mayor, Risk Mgmt.) - Rehab 2 Miles of 54" PCCP FM in the City	3	24-Sep-16 A	26-Sep-16 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - Rehab 2 Miles of 54" PCCP FM in the City																																	
Construction		262	27-Sep-16 A	16-Jun-17 A	Construction - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT33091	Contractor Notice to Proceed (NTP) - Rehab 2 Miles of 54" PCCP FM in the City	0	27-Sep-16 A		Contractor Notice to Proceed (NTP) - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT22650	Construction - Rehab 2 Miles of 54" PCCP FM in the City	263	27-Sep-16 A	28-May-17 A	Construction - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT10380	Substantial Completion (CD Compliance Date 05/28/17) - Rehab 2 Miles of 54" PCCP FM in the City	0		16-Jun-17 A	Substantial Completion (CD Compliance Date 05/28/17) - Rehab 2 Miles of 54" PCCP FM in the City																																	
Project Administration		828	12-Mar-15 A	16-Jun-17 A	WASD Project Administration - Rehab 2 Miles of 54" PCCP FM in the City																																	
CT38390	WASD Project Administration - Rehab 2 Miles of 54" PCCP FM in the City	828	12-Mar-15 A	16-Jun-17 A	WASD Project Administration - Rehab 2 Miles of 54" PCCP FM in the City																																	
4.08 (2) Rehab/Replace an Additional 2 Miles of 54" PCCP FM (Non-Consent Decree)					15-Jan-19, 4.08 (2) Rehab/Replace an Additional 2 Miles of 54" PCCP FM (Non-Consent Decree)																																	
Pre-Design		135	27-Oct-14 A	11-Mar-15 A	Design - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT22660	Pre-Design - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	136	27-Oct-14 A	11-Mar-15 A	Pre-Design - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
Engineering Design		372	12-Mar-15 A	18-Mar-16 A	Engineering Design - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT22670	Basis of Design Report (BODR) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	121	12-Mar-15 A	10-Jul-15 A	Basis of Design Report (BODR) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT22680	BODR Design Review - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	12	11-Jul-15 A	22-Jul-15 A	BODR Design Review - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT80430	Engineering Design - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	373	12-Mar-15 A	18-Mar-16 A	Engineering Design - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT22710	Develop Performance Specifications - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	170	01-Oct-15 A	18-Mar-16 A	Develop Performance Specifications - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
Permitting		21	01-Jul-15 A	22-Jul-15 A	Permitting - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT22740	Permitting - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	22	01-Jul-15 A	22-Jul-15 A	Permitting - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
Procurement		247	23-Jan-16 A	26-Sep-16 A	Procurement - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT35200	Submit/Approve SBD Goals and Request to Advertise - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	21	23-Jan-16 A	12-Feb-16 A	Submit/Approve SBD Goals and Request to Advertise - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT35190	Design Documents Sent to Procurement - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0	18-Apr-16 A		Design Documents Sent to Procurement - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT35210	Advertise Bid Package - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0	25-May-16 A		Advertise Bid Package - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT35220	Bid Solicitation Period - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	43	25-May-16 A	06-Jul-16 A	Bid Solicitation Period - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	
CT35230	Bids Due - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0	07-Jul-16 A		Bids Due - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CT31001	30% Design Submittal - 4.09 (20-21)	34	01-May-15 A	03-Jun-15 A	Submittal - 4.09 (20-21)																																	
CT31011	60% Design Submittal - 4.09 (20-21)	28	04-Jun-15 A	01-Jul-15 A	Design Submittal - 4.09 (20-21)																																	
CT31021	90% Design Submittal - 4.09 (20-21)	22	02-Jul-15 A	23-Jul-15 A	Design Submittal - 4.09 (20-21)																																	
CT12401	Engineering Design - 4.09 (20-21)	152	30-Apr-15 A	29-Sep-15 A	Engineering Design - 4.09 (20-21)																																	
Permitting					21-Dec-15 A, Permitting																																	
CT12411	Permitting - 4.09 (20-21)	84	29-Sep-15 A	21-Dec-15 A	Permitting - 4.09 (20-21)																																	
Procurement					09-Jun-16 A, Procurement																																	
CT35370	100% Design Documents Sent to Procurement - 4.09 (20-21)	170	22-Dec-15 A	09-Jun-16 A	100% Design Documents Sent to Procurement - 4.09 (20-21)																																	
CT35380	Submit/Approve SBD Goals and Request to Advertise - 4.09 (20-21)	76	22-Dec-15 A	06-Mar-16 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (20-21)																																	
CT35390	Advertise Bid Package - 4.09 (20-21)	0	07-Mar-16 A		Advertise Bid Package - 4.09 (20-21)																																	
CT35400	Bid Solicitation Period - 4.09 (20-21)	30	07-Mar-16 A	05-Apr-16 A	Bid Solicitation Period - 4.09 (20-21)																																	
CT35410	Bids Due - 4.09 (20-21)	0	06-Apr-16 A		Bids Due - 4.09 (20-21)																																	
CT35420	Bid Review Period - 4.09 (20-21)	23	06-Apr-16 A	28-Apr-16 A	Bid Review Period - 4.09 (20-21)																																	
CT35430	Award Recommendation - 4.09 (20-21)	0		28-Apr-16 A	Award Recommendation - 4.09 (20-21)																																	
CT12421	Procurement - 4.09 (20-21)	171	22-Dec-15 A	09-Jun-16 A	Procurement - 4.09 (20-21)																																	
CT35440	Final Approvals - 4.09 (20-21)	43	28-Apr-16 A	09-Jun-16 A	Final Approvals - 4.09 (20-21)																																	
CT50960	P.O. Issued - 4.09 (20-21)	0		09-Jun-16 A	P.O. Issued - 4.09 (20-21)																																	
Construction					31-Jan-19, Construction																																	
CT35450	Contractor Notice to Proceed (NTP) - 4.09 (20-21)	0	22-Aug-16 A		Contractor Notice to Proceed (NTP) - 4.09 (20-21)																																	
CT12431	Construction - 4.09 (20-21)	197	22-Aug-16 A	06-Mar-17 A	Construction - 4.09 (20-21)																																	
CT12441	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (20-21)	0		06-Mar-17 A	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (20-21)																																	
CT40470	Project Closeout - 4.09 (20-21)	212	07-Mar-17 A	31-Jan-19*	Project Closeout - 4.09 (20-21)																																	
Project Administration					31-Jan-19, Project Administration																																	
CT38350	WASD Project Administration - 4.09 (20-21)	888	01-May-15 A	31-Jan-19	WASD Project Administration - 4.09 (20-21)																																	
4.09 (22) Replacement of 2,013 LF of 6" ACP FM from PS#358 to PS#0352					02-Aug-18 A, 4.09 (22) Replacement of 2,013 LF of 6" ACP FM from PS#358 to PS#0352																																	
Pre-Design					01-Nov-14 A, Pre-Design																																	
CT22280	Pre-Design - 4.09 (22)	180	01-Nov-14 A	30-Apr-15 A	Pre-Design - 4.09 (22)																																	
Engineering Design					01-May-15 A, Engineering Design																																	
CT37360	30% Design Submittal - 4.09 (22)	87	01-May-15 A	27-Jul-15 A	30% Design Submittal - 4.09 (22)																																	
CT37370	60% Design Submittal - 4.09 (22)	29	01-May-15 A	29-May-15 A	60% Design Submittal - 4.09 (22)																																	
CT37380	90% Design Submittal - 4.09 (22)	26	01-Jun-15 A	26-Jun-15 A	90% Design Submittal - 4.09 (22)																																	
CT12451	Engineering Design - 4.09 (22)	29	29-Jun-15 A	27-Jul-15 A	Engineering Design - 4.09 (22)																																	
Permitting					18-Dec-15 A, Permitting																																	
CT12461	Permitting - 4.09 (22)	126	14-Aug-15 A	18-Dec-15 A	Permitting - 4.09 (22)																																	
Procurement					20-May-16 A, Procurement																																	
CT35460	Design Documents Sent to Procurement - 4.09 (22)	154	18-Dec-15 A	20-May-16 A	Design Documents Sent to Procurement - 4.09 (22)																																	
CT35470	Submit/Approve SBD Goals and Request to Advertise - 4.09 (22)	80	18-Dec-15 A	06-Mar-16 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (22)																																	
CT35480	Advertise Bid Package - 4.09 (22)	0	07-Mar-16 A		Advertise Bid Package - 4.09 (22)																																	
CT35490	Bid Solicitation Period - 4.09 (22)	28	07-Mar-16 A	03-Apr-16 A	Bid Solicitation Period - 4.09 (22)																																	
CT35500	Bids Due - 4.09 (22)	0	04-Apr-16 A		Bids Due - 4.09 (22)																																	
CT35510	Bid Review Period - 4.09 (22)	7	04-Apr-16 A	10-Apr-16 A	Bid Review Period - 4.09 (22)																																	
CT35520	Award Recommendation - 4.09 (22)	0		11-Apr-16 A	Award Recommendation - 4.09 (22)																																	
CT12471	Procurement - 4.09 (22)	155	18-Dec-15 A	20-May-16 A	Procurement - 4.09 (22)																																	
CT35530	Final Approvals - 4.09 (22)	39	12-Apr-16 A	20-May-16 A	Final Approvals - 4.09 (22)																																	
CT50970	P.O. Issued - 4.09 (22)	0		20-May-16 A	P.O. Issued - 4.09 (22)																																	
Construction					02-Aug-18 A, Construction																																	
CT35540	Contractor Notice to Proceed (NTP) - 4.09 (22)	363	03-Oct-16 A	02-Aug-18 A	Contractor Notice to Proceed (NTP) - 4.09 (22)																																	
CT12481	Construction - 4.09 (22)	150	03-Oct-16 A	01-Mar-17 A	Construction - 4.09 (22)																																	
CT12491	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (22)	0		01-Mar-17 A	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (22)																																	
CT40480	Project Closeout - 4.09 (22)	213	02-Mar-17 A	02-Aug-18 A	Project Closeout - 4.09 (22)																																	
Project Administration					02-Aug-18 A, Project Administration																																	
CT38340	WASD Project Administration - 4.09 (22)	884	01-May-15 A	02-Aug-18 A	WASD Project Administration - 4.09 (22)																																	
4.09 (23) Replacment of 1857 LF of 8" ACP FM from PS#1022 to SW 352nd St & 286LF Along 187 Ave.					31-Jan-19, 4.09 (23) Replacment of 1857 LF of 8" ACP FM from PS#1022 to SW 352nd St & 286LF Along 187 Ave.																																	
Pre-Design					14-Dec-15 A, Pre-Design																																	
CT22290	Pre-Design - 4.09 (23)	194	03-Jun-15 A	14-Dec-15 A	Pre-Design - 4.09 (23)																																	
Engineering Design					27-Jul-16 A, Engineering Design																																	
CT35001	30% Design Submittal - 4.09 (23)	226	14-Dec-15 A	27-Jul-16 A	30% Design Submittal - 4.09 (23)																																	
CT35011	60% Design Submittal - 4.09 (23)	71	17-Dec-15 A	25-Feb-16 A	60% Design Submittal - 4.09 (23)																																	
CT12501	Engineering Design - 4.09 (23)	30	25-Feb-16 A	25-Mar-16 A	Engineering Design - 4.09 (23)																																	
CT35021	90% Design Submittal - 4.09 (23)	137	14-Dec-15 A	28-Apr-16 A	90% Design Submittal - 4.09 (23)																																	
CT50310	90% Design Review - 4.09 (23)	34	26-Mar-16 A	28-Apr-16 A	90% Design Review - 4.09 (23)																																	
CT50540	100% Design Submittal Permit Ready - 4.09 (23)	8	29-Apr-16 A	06-May-16 A	100% Design Submittal Permit Ready - 4.09 (23)																																	
Permitting					28-Jul-16 A, Permitting																																	
CT50230	Public Works Permit - 4.09 (23)	92	28-Jul-16 A	28-Oct-16 A	Public Works Permit - 4.09 (23)																																	
CT12511	Permitting - 4.09 (23)	93	28-Jul-16 A	28-Oct-16 A	Permitting - 4.09 (23)																																	
CT50220	RER DERM Permit - 4.09 (23)	93	28-Jul-16 A	28-Oct-16 A	RER DERM Permit - 4.09 (23)																																	
Procurement					07-Dec-17 A, Procurement																																	
CT80270	GMOU submittal and approval - 4.09 (23)	380	02-Dec-16 A	07-Dec-17 A	GMOU submittal and approval - 4.09 (23)																																	
CT80290	Internal Bid Package Review - 4.09 (23)	23	02-Dec-16 A	24-Dec-16 A	Internal Bid Package Review - 4.09 (23)																																	
CT35550	Design Documents Sent to Procurement - 4.09 (23)	6	16-Mar-17 A	21-Mar-17 A	Design Documents Sent to Procurement - 4.09 (23)																																	
CT35560	Submit/Approve SBD Goals and Request to Advertise - 4.09 (23)	0	21-Mar-17 A		Submit/Approve SBD Goals and Request to Advertise - 4.09 (23)																																	
CT35570	Advertise Bid Package - 4.09 (23)	29	21-Mar-17 A	18-Apr-17 A	Advertise Bid Package - 4.09 (23)																																	
CT35580	Bid Solicitation Period - 4.09 (23)	0	19-Apr-17 A		Bid Solicitation Period - 4.09 (23)																																	
CT35590	Bids Due - 4.09 (23)	56	19-Apr-17 A	13-Jun-17 A	Bids Due - 4.09 (23)																																	
CT35600	Bid Review Period - 4.09 (23)	0	14-Jun-17 A		Bid Review Period - 4.09 (23)																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Procurement					20-Dec-18 A, Procurement																																	
CT80190	Internal Bid Package Review - 4.09 (34-43)	280	21-May-18 A	20-Dec-18 A	Internal Bid Package Review - 4.09 (34-43)																																	
CT36180	Design Documents Sent to Procurement - 4.09 (34-43)	0	11-Jul-18 A		Design Documents Sent to Procurement - 4.09 (34-43)																																	
CT36190	Submit/Approve SBD Goals and Request to Advertise - 4.09 (34-43)	45	11-Jul-18 A	20-Aug-18 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (34-43)																																	
CT36200	Advertise Bid Package - 4.09 (34-43)	0	21-Aug-18 A		Advertise Bid Package - 4.09 (34-43)																																	
CT36210	Bid Solicitation Period - 4.09 (34-43)	45	21-Aug-18 A	24-Sep-18 A	Bid Solicitation Period - 4.09 (34-43)																																	
CT36220	Bids Due - 4.09 (34-43)	0	25-Sep-18 A		Bids Due - 4.09 (34-43)																																	
CT36230	Bid Review Period - 4.09 (34-43)	30	25-Sep-18 A	09-Nov-18 A	Bid Review Period - 4.09 (34-43)																																	
CT36240	Award Recommendation - 4.09 (34-43)	0		09-Nov-18 A	Award Recommendation - 4.09 (34-43)																																	
CT12971	Procurement - 4.09 (34-43)	210	11-Jul-18 A	20-Dec-18 A	Procurement - 4.09 (34-43)																																	
CT36250	Final Approvals - 4.09 (34-43)	34	10-Nov-18 A	20-Dec-18 A	Final Approvals - 4.09 (34-43)																																	
Construction					20-Mar-20, Construction																																	
CT36260	Contractor Notice to Proceed (NTP) - 4.09 (34-43)	0	31-Jan-19		Contractor Notice to Proceed (NTP) - 4.09 (34-43)																																	
CT12981	Construction - 4.09 (34-43)	365	31-Jan-19	30-Jan-20	Construction - 4.09 (34-43)																																	
CT12991	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (34-43)	0		30-Jan-20*	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (34-43)																																	
CT40570	Project Closeout - 4.09 (34-43)	50	31-Jan-20	20-Mar-20*	Project Closeout - 4.09 (34-43)																																	
Project Administration					20-Mar-20, Project Administration																																	
CT38250	WASD Project Administration - 4.09 (34-43)	1005	23-Sep-16 A	20-Mar-20	WASD Project Administration - 4.09 (34-43)																																	
4.09 (46) Replacement of 157 LF of 6" ACP FM from SW107th Ct/155th St to SW 107th Ave./155th St.					20-Mar-20, 4.09 (46) Replacement of 157 LF of 6" ACP FM from SW 107th Ct/155th St to SW 107th Ave./155th St.																																	
Pre-Design					23-Sep-16 A, Pre-Design																																	
CT22400	Pre-Design - 4.09 (46)	478	03-Jun-15 A	23-Sep-16 A	Pre-Design - 4.09 (46)																																	
Engineering Design					30-Apr-18 A, Engineering Design																																	
CT37910	30% Design Submittal - 4.9 (46)	90	23-Sep-16 A	21-Dec-16 A	30% Design Submittal - 4.9 (46)																																	
CT50450	30% Design Review - 4.09 (46)	37	22-Dec-16 A	27-Jan-17 A	30% Design Review - 4.09 (46)																																	
CT37920	60% Design Submittal - 4.09 (46)	39	28-Jan-17 A	07-Mar-17 A	60% Design Submittal - 4.09 (46)																																	
CT50460	60% Design Review - 4.09 (46)	48	08-Mar-17 A	24-Apr-17 A	60% Design Review - 4.09 (46)																																	
CT37930	90% Design Submittal - 4.09 (46)	42	25-Apr-17 A	05-Jun-17 A	90% Design Submittal - 4.09 (46)																																	
CT50470	90% Design Review - 4.09 (46)	148	06-Jun-17 A	20-Oct-17 A	90% Design Review - 4.09 (46)																																	
CT13101	Engineering Design - 4.09 (46)	431	23-Sep-16 A	30-Apr-18 A	Engineering Design - 4.09 (46)																																	
CT80520	100% Design/Permit Ready Submittal - 4.09 (46)	27	21-Oct-17 A	30-Apr-18 A	100% Design/Permit Ready Submittal - 4.09 (46)																																	
Permitting					27-Aug-18 A, Permitting																																	
CT50580	Public Works Permit - 4.09 (46)	90	10-Mar-17 A	11-Apr-17 A	Public Works Permit - 4.09 (46)																																	
CT13111	Permitting - 4.09 (46)	90	10-Mar-17 A	27-Aug-18 A	Permitting - 4.09 (46)																																	
CT50570	RER (DERM) Permit - 4.09 (46)	45	08-Jun-18 A	27-Aug-18 A	RER (DERM) Permit - 4.09 (46)																																	
Procurement					20-Dec-18 A, Procurement																																	
CT80310	GMOU submittal and approval - 4.09 (46)	22	15-Aug-17 A	05-Sep-17 A	GMOU submittal and approval - 4.09 (46)																																	
CT80200	Internal Bid Package Review - 4.09 (46)	3	21-May-18 A	10-Jul-18 A	Internal Bid Package Review - 4.09 (46)																																	
CT36270	Design Documents Sent to Procurement - 4.09 (46)	0	11-Jul-18 A		Design Documents Sent to Procurement - 4.09 (46)																																	
CT36280	Submit/Approve SBD Goals and Request to Advertise - 4.09 (46)	45	11-Jul-18 A	20-Aug-18 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (46)																																	
CT36290	Advertise Bid Package - 4.09 (46)	0	21-Aug-18 A		Advertise Bid Package - 4.09 (46)																																	
CT36300	Bid Solicitation Period - 4.09 (46)	45	21-Aug-18 A	24-Sep-18 A	Bid Solicitation Period - 4.09 (46)																																	
CT36310	Bids Due - 4.09 (46)	0	25-Sep-18 A		Bids Due - 4.09 (46)																																	
CT36320	Bid Review Period - 4.09 (46)	30	25-Sep-18 A	09-Nov-18 A	Bid Review Period - 4.09 (46)																																	
CT36330	Award Recommendation - 4.09 (46)	0		09-Nov-18 A	Award Recommendation - 4.09 (46)																																	
CT13121	Procurement - 4.09 (46)	210	11-Jul-18 A	20-Dec-18 A	Procurement - 4.09 (46)																																	
CT36340	Final Approvals - 4.09 (46)	34	10-Nov-18 A	20-Dec-18 A	Final Approvals - 4.09 (46)																																	
Construction					20-Mar-20, Construction																																	
CT36350	Contractor Notice to Proceed (NTP) - 4.09 (46)	0	31-Jan-19		Contractor Notice to Proceed (NTP) - 4.09 (46)																																	
CT13131	Construction - 4.09 (46)	365	31-Jan-19	30-Jan-20	Construction - 4.09 (46)																																	
CT13191	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (46)	0		30-Jan-20*	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (46)																																	
CT40590	Project Closeout - 4.09 (46)	50	31-Jan-20	20-Mar-20*	Project Closeout - 4.09 (46)																																	
Project Administration					20-Mar-20, Project Administration																																	
CT38240	WASD Project Administration - 4.09 (46)	839	23-Sep-16 A	20-Mar-20	WASD Project Administration - 4.09 (46)																																	
4.09 (47) Replacement of 1023 LF of 8" ACP FM from PS#0869 to SW 122nd Ave./88th St.					23-Jan-18 A, 4.09 (47) Replacement of 1023 LF of 8" ACP FM from PS#0869 to SW 122nd Ave./88th St.																																	
Pre-Design					30-Apr-15 A, Pre-Design																																	
CT22410	Pre-Design - 4.09 (47)	77	12-Feb-15 A	30-Apr-15 A	Pre-Design - 4.09 (47)																																	
Engineering Design					15-Sep-15 A, Engineering Design																																	
CT37450	30% Design Submittal - 4.09 (47)	54	01-May-15 A	23-Jun-15 A	30% Design Submittal - 4.09 (47)																																	
CT37460	60% Design Submittal - 4.09 (47)	37	24-Jun-15 A	30-Jul-15 A	60% Design Submittal - 4.09 (47)																																	
CT13151	Engineering Design - 4.09 (47)	138	01-May-15 A	15-Sep-15 A	Engineering Design - 4.09 (47)																																	
CT37470	90% Design Submittal - 4.09 (47)	44	03-Aug-15 A	15-Sep-15 A	90% Design Submittal - 4.09 (47)																																	
Permitting					21-Dec-15 A, Permitting																																	
CT13161	Permitting - 4.09 (47)	83	29-Sep-15 A	21-Dec-15 A	Permitting - 4.09 (47)																																	
Procurement					27-May-16 A, Procurement																																	
CT36360	Design Documents Sent to Procurement - 4.09 (47)	0	22-Dec-15 A		Design Documents Sent to Procurement - 4.09 (47)																																	
CT36370	Submit/Approve SBD Goals and Request to Advertise - 4.09 (47)	84	22-Dec-15 A	14-Mar-16 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (47)																																	
CT36380	Advertise Bid Package - 4.09 (47)	0	15-Mar-16 A		Advertise Bid Package - 4.09 (47)																																	
CT36390	Bid Solicitation Period - 4.09 (47)	30	15-Mar-16 A	13-Apr-16 A	Bid Solicitation Period - 4.09 (47)																																	
CT36400	Bids Due - 4.09 (47)	0	14-Apr-16 A		Bids Due - 4.09 (47)																																	
CT36410	Bid Review Period - 4.09 (47)	15	14-Apr-16 A	28-Apr-16 A	Bid Review Period - 4.09 (47)																																	
CT36420	Award Recommendation - 4.09 (47)	0		28-Apr-16 A	Award Recommendation - 4.09 (47)																																	
CT13171	Procurement - 4.09 (47)	158	22-Dec-15 A	27-May-16 A	Procurement - 4.09 (47)																																	
CT36430	Final Approvals - 4.09 (47)	29	29-Apr-16 A	27-May-16 A	Final Approvals - 4.09 (47)																																	
Construction					23-Jan-18 A, Construction																																	
CT36440	Contractor Notice to Proceed (NTP) - 4.09 (47)	0	26-Sep-16 A		Contractor Notice to Proceed (NTP) - 4.09 (47)																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PS20002	Basis of Design Report (BODR) - PS#0415	127	09-Feb-15 A	15-Jun-15 A	Basis of Design Report (BODR) - PS#0415																																			
PS20012	BODR Review Period - PS#0415	120	16-Jun-15 A	13-Oct-15 A	BODR Review Period - PS#0415																																			
PS31260	Negotiate Scope & Fee of Remaining Design - PS#0415	134	27-Jul-15 A	07-Dec-15 A	Negotiate Scope & Fee of Remaining Design - PS#0415																																			
PS20022	30% Design Submittal - PS#0415	76	14-Oct-15 A	28-Dec-15 A	30% Design Submittal - PS#0415																																			
PS20032	30% Design Review - PS#0415	14	29-Dec-15 A	11-Jan-16 A	30% Design Review - PS#0415																																			
PS20042	60% Design Submittal - PS#0415	46	12-Jan-16 A	26-Feb-16 A	60% Design Submittal - PS#0415																																			
PS20052	60% Design Review - PS#0415	14	27-Feb-16 A	11-Mar-16 A	60% Design Review - PS#0415																																			
PS50980	EPA Compliance Date for Engineering Design - PS#0415**	0		24-Apr-16 A	EPA Compliance Date for Engineering Design - PS#0415**																																			
PS10110	Engineering Design - PS#0415	477	09-Feb-15 A	30-May-16 A	Engineering Design - PS#0415																																			
PS20062	100% Design Submittal - PS#0415	80	12-Mar-16 A	30-May-16 A	100% Design Submittal - PS#0415																																			
Permitting					Permitting - PS#0415																																			
PS51710	EPA Start Date for Permitting - PS#0415**	0	10-Aug-14 A		EPA Start Date for Permitting - PS#0415**																																			
PS50250	DERM Permit Submittal - PS#0415	0	31-May-16 A		DERM Permit Submittal - PS#0415																																			
PS50270	DERM Permit Submittal Review - PS#0415	62	01-Jun-16 A	01-Aug-16 A	DERM Permit Submittal Review - PS#0415																																			
PS50310	A/E Prepares/Submits Responses to DERM Permit Submittal - PS#0415	31	02-Aug-16 A	01-Sep-16 A	A/E Prepares/Submits Responses to DERM Permit Submittal - PS#0415																																			
PS50260	Municipality Bldg. Dept. Submittal - PS#0415	0	28-Sep-16 A		Municipality Bldg. Dept. Submittal - PS#0415																																			
PS50330	DERM Permit Approval - PS#0415	104	02-Sep-16 A	14-Dec-16 A	DERM Permit Approval - PS#0415																																			
PS50290	Municipality Bldg. Dept. Submittal Review - PS#0415	186	28-Sep-16 A	01-Apr-17 A	Municipality Bldg. Dept. Submittal Review - PS#0415																																			
PS50320	A/E Prepares/Submits Responses to Municipality Bldg. Dept. Submittal - PS#0415	34	02-Apr-17 A	05-May-17 A	A/E Prepares/Submits Responses to Municipality Bldg. Dept. Submittal - PS#0415																																			
PS10270	Permitting - PS#0415	365	31-May-16 A	30-May-17 A	Permitting - PS#0415																																			
PS50340	Municipality Bldg. Dept. Submittal Approval - PS#0415	25	06-May-17 A	30-May-17 A	Municipality Bldg. Dept. Submittal Approval - PS#0415																																			
PS50990	EPA Compliance Date for Permitting - PS#0415	0		30-Aug-17 A	EPA Compliance Date for Permitting - PS#0415																																			
Procurement					Procurement - PS#0415																																			
PS32380	Design Documents Sent to Procurement - PS#0415	0	17-Nov-16 A		Design Documents Sent to Procurement - PS#0415																																			
PS51720	EPA Start Date for Procurement - PS#0415	0	03-Dec-16 A		EPA Start Date for Procurement - PS#0415																																			
PS32390	Submit/Approve SBD Goals and Request to Advertise - PS#0415	197	17-Nov-16 A	01-Jun-17 A	Submit/Approve SBD Goals and Request to Advertise - PS#0415																																			
PS32400	Advertise Bid Package - PS#0415	0	02-Jun-17 A		Advertise Bid Package - PS#0415																																			
PS32410	Bid Solicitation Period - PS#0415	56	02-Jun-17 A	27-Jul-17 A	Bid Solicitation Period - PS#0415																																			
PS32420	Bids Due - PS#0415	0	28-Jul-17 A		Bids Due - PS#0415																																			
PS32430	Bid Review Period - PS#0415	54	28-Jul-17 A	19-Sep-17 A	Bid Review Period - PS#0415																																			
PS32440	Award Recommendation - PS#0415	0		19-Sep-17 A	Award Recommendation - PS#0415																																			
PS10440	Procurement - PS#0415	328	17-Nov-16 A	10-Oct-17 A	Procurement - PS#0415																																			
PS32450	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0415	21	20-Sep-17 A	10-Oct-17 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0415																																			
PS51000	EPA Compliance Date for Procurement - PS#0415	0		15-Oct-17 A	EPA Compliance Date for Procurement - PS#0415																																			
Construction					Construction - PS#0415																																			
PS32460	Contractor Notice to Proceed (NTP) - PS#0415	672	11-Oct-17 A	02-Sep-19	Contractor Notice to Proceed (NTP) - PS#0415																																			
PS51730	EPA Start Date for Construction - PS#0415	0	16-Oct-17 A		EPA Start Date for Construction - PS#0415																																			
PS10640	Construction - PS#0415	421	11-Oct-17 A	13-Jul-19	Construction - PS#0415																																			
PS723020	Commissioning - PS#0415	60	15-May-19	13-Jul-19	Commissioning - PS#0415																																			
PS10870	Substantial Completion (CD Compliance Date 9/02/19) - PS#0415	0		13-Jul-19*	Substantial Completion (CD Compliance Date 9/02/19) - PS#0415																																			
PS40000	Project Closeout - PS#0415	30	14-Jul-19	12-Aug-19*	Project Closeout - PS#0415																																			
PS51010	EPA Compliance Date for Construction - PS#0415	0		02-Sep-19*	EPA Compliance Date for Construction - PS#0415																																			
Project Administration					Project Administration - PS#0415																																			
PS35320	WASD Project Administration - PS#0415	1456	09-Feb-15 A	12-Aug-19	WASD Project Administration - PS#0415																																			
5.06 Replacement of Switchgear PS#0416					5.06 Replacement of Switchgear PS#0416																																			
Pre-Design					Pre-Design - PS#0416																																			
PS20260	Pre-Design - PS#0416	110	18-Oct-14 A	05-Feb-15 A	Pre-Design - PS#0416																																			
Engineering Design					Engineering Design - PS#0416																																			
PS51740	EPA Start Date for Engineering Design - PS#0416**	0	07-Oct-14 A		EPA Start Date for Engineering Design - PS#0416**																																			
PS51020	EPA Compliance Date for Engineering Design - PS#0416**	0		13-May-15 A	EPA Compliance Date for Engineering Design - PS#0416**																																			
PS30600	Basis of Design Report (BODR) - PS#0416	117	06-Feb-15 A	02-Jun-15 A	Basis of Design Report (BODR) - PS#0416																																			
PS30610	BODR Review Period - PS#0416	34	03-Jun-15 A	06-Jul-15 A	BODR Review Period - PS#0416																																			
PS31270	Negotiate Scope & Fee of Remaining Design - PS#0416	153	08-Jul-15 A	07-Dec-15 A	Negotiate Scope & Fee of Remaining Design - PS#0416																																			
PS30620	30% Design Submittal - PS#0416	77	29-Sep-15 A	14-Dec-15 A	30% Design Submittal - PS#0416																																			
PS30630	30% Design Review - PS#0416	10	15-Dec-15 A	24-Dec-15 A	30% Design Review - PS#0416																																			
PS30640	60% Design Submittal - PS#0416	46	25-Dec-15 A	08-Feb-16 A	60% Design Submittal - PS#0416																																			
PS30650	60% Design Review - PS#0416	21	09-Feb-16 A	29-Feb-16 A	60% Design Review - PS#0416																																			
PS10080	Engineering Design - PS#0416	474	06-Feb-15 A	24-May-16 A	Engineering Design - PS#0416																																			
PS30660	100% Design Submittal - PS#0416	99	16-Feb-16 A	24-May-16 A	100% Design Submittal - PS#0416																																			
Permitting					Permitting - PS#0416																																			
PS51750	EPA Start Date for Permitting - PS#0416**	0	14-May-15 A		EPA Start Date for Permitting - PS#0416**																																			
PS50130	DERM Permit Submittal - PS#0416	0	25-May-16 A		DERM Permit Submittal - PS#0416																																			
PS50150	DERM Permit Submittal Review - PS#0416	23	25-May-16 A	16-Jun-16 A	DERM Permit Submittal Review - PS#0416																																			
PS50190	A/E Prepares/Submits Responses to DERM Permit Submittal - PS#0416	77	17-Jun-16 A	01-Sep-16 A	A/E Prepares/Submits Responses to DERM Permit Submittal - PS#0416																																			
PS50120	Bldg. Dept. Permit Submittal - PS#0416	0	29-Sep-16 A		Bldg. Dept. Permit Submittal - PS#0416																																			
PS50160	Bldg. Dept. Permit Submittal Review - PS#0416	55	29-Sep-16 A	22-Nov-16 A	Bldg. Dept. Permit Submittal Review - PS#0416																																			
PS50210	DERM Permit Approval - PS#0416	104	02-Sep-16 A	14-Dec-16 A	DERM Permit Approval - PS#0416																																			
PS50180	A/E Prepares/Submits Responses to Bldg. Dept. Permit Submittal - PS#0416	144	23-Nov-16 A	15-Apr-17 A	A/E Prepares/Submits Responses to Bldg. Dept. Permit Submittal - PS#0416																																			
PS10230	Permitting - PS#0416	351	24-May-16 A	09-May-17 A	Permitting - PS#0416																																			
PS50230	Bldg. Dept. Permit Approval - PS#0416	24	16-Apr-17 A	09-May-17 A	Bldg. Dept. Permit Approval - PS#0416																																			
PS51030	EPA Compliance Date for Permitting - PS#0416	0		31-May-17 A	EPA Compliance Date for Permitting - PS#0416																																			
Procurement					Procurement - PS#0416																																			
PS51760	EPA Start Date for Procurement - PS#0416**	0	08-Jun-15 A		EPA Start Date for Procurement - PS#0416**																																			
PS32470	Design Documents Sent to Procurement - PS#0416	0	15-Nov-16 A		Design Documents Sent to Procurement - PS#0416																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2016																				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2												
PS30770	30% Design Review - PS#0107	6	04-Jul-15 A	09-Jul-15 A	[Gantt bar for PS30770]																																																	
PS30780	60% Design Submittal - PS#0107	32	10-Jul-15 A	10-Aug-15 A	[Gantt bar for PS30780]																																																	
PS30790	60% Design Review - PS#0107	7	11-Aug-15 A	17-Aug-15 A	[Gantt bar for PS30790]																																																	
PS30800	100% Design Submittal - PS#0107	37	11-Aug-15 A	16-Sep-15 A	[Gantt bar for PS30800]																																																	
PS10150	Engineering Design - PS#0107	100	08-Jun-15 A	16-Sep-15 A	[Gantt bar for PS10150]																																																	
PS51100	EPA Compliance Date for Engineering Design - PS#0107	0		09-Sep-16 A	[Gantt bar for PS51100]																																																	
Permitting					[Gantt bar for Permitting Phase]																																																	
PS51830	EPA Start Date for Permitting - PS#0107**	0	10-Aug-14 A		[Gantt bar for PS51830]																																																	
PS10310	Permitting - PS#0107	164	13-Oct-15 A	24-Mar-16 A	[Gantt bar for PS10310]																																																	
PS51110	EPA Compliance Date for Permitting - PS#0107	0		08-Mar-17 A	[Gantt bar for PS51110]																																																	
Procurement					[Gantt bar for Procurement Phase]																																																	
PS33030	Design Documents Sent to Procurement - PS#0107	0	12-Apr-16 A		[Gantt bar for PS33030]																																																	
PS33040	Submit/Approve SBD Goals and Request to Advertise - PS#0107	13	12-Apr-16 A	24-Apr-16 A	[Gantt bar for PS33040]																																																	
PS33050	Advertise Bid Package - PS#0107	0	25-Apr-16 A		[Gantt bar for PS33050]																																																	
PS33060	Bid Solicitation Period - PS#0107	43	25-Apr-16 A	06-Jun-16 A	[Gantt bar for PS33060]																																																	
PS33070	Bids Due - PS#0107	0	07-Jun-16 A		[Gantt bar for PS33070]																																																	
PS33080	Bid Review Period - PS#0107	15	07-Jun-16 A	21-Jun-16 A	[Gantt bar for PS33080]																																																	
PS33090	Award Recommendation - PS#0107	0		29-Jul-16 A	[Gantt bar for PS33090]																																																	
PS10480	Procurement - PS#0107	174	24-Mar-16 A	13-Sep-16 A	[Gantt bar for PS10480]																																																	
PS33100	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#0107	46	30-Jul-16 A	13-Sep-16 A	[Gantt bar for PS33100]																																																	
PS51530	P.O. Issued - PS#0107	0		13-Sep-16 A	[Gantt bar for PS51530]																																																	
PS51840	EPA Start Date for Procurement - PS#0107	0	09-Mar-17 A		[Gantt bar for PS51840]																																																	
PS51120	EPA Compliance Date for Procurement - PS#0107	0		03-Dec-17 A	[Gantt bar for PS51120]																																																	
Construction					[Gantt bar for Construction Phase]																																																	
PS33110	Contractor Notice to Proceed (NTP) - PS#0107	0	03-Nov-16 A		[Gantt bar for PS33110]																																																	
PS51850	EPA Start Date for Construction - PS#0107	0	04-Dec-17 A		[Gantt bar for PS51850]																																																	
PS10680	Construction - PS#0107	352	03-Nov-16 A	03-Feb-18 A	[Gantt bar for PS10680]																																																	
PS10890	Substantial Completion (CD Compliance Date 1/27/19) - PS#0107	0		03-Feb-18 A	[Gantt bar for PS10890]																																																	
PS40830	Project Closeout - PS#0107	90	24-Feb-18 A	24-Aug-18 A	[Gantt bar for PS40830]																																																	
PS51130	EPA Compliance Date for Construction - PS#0107	0		27-Jan-19*	[Gantt bar for PS51130]																																																	
Project Administration					[Gantt bar for Project Administration Phase]																																																	
PS35290	WASD Project Administration - PS#0107	955	08-Jun-15 A	24-Aug-18 A	[Gantt bar for PS35290]																																																	
5.09 Replacement of Pumping and Electrical Equipment at PS#0301 (w/ Updated EPA Dates)					[Gantt bar for 5.09 Replacement of Pumping and Electrical Equipment]																																																	
Pre-Design					[Gantt bar for Pre-Design Phase]																																																	
PS20280	Pre-Design - PS#0301	1242	08-Sep-14 A	01-Jun-18 A	[Gantt bar for PS20280]																																																	
PS72770	TA Revision for New PS - PS#0301 Construction	74	08-Sep-14 A	20-Nov-14 A	[Gantt bar for PS72770]																																																	
Engineering Design					[Gantt bar for Engineering Design Phase]																																																	
PS51860	EPA Start Date for Engineering Design - PS#0301**	0	07-Oct-14 A		[Gantt bar for PS51860]																																																	
PS30810	Basis of Design Report (BODR) - PS#0301	151	24-Nov-14 A	23-Apr-15 A	[Gantt bar for PS30810]																																																	
PS30820	BODR Review Period - PS#0301	39	24-Apr-15 A	01-Jun-15 A	[Gantt bar for PS30820]																																																	
PS31290	Negotiate Scope & Fee of Remaining Design (HDR) - PS#0301	67	17-May-15 A	22-Jul-15 A	[Gantt bar for PS31290]																																																	
PS30830	30% Design Submittal - PS#0301	92	23-Jul-15 A	22-Oct-15 A	[Gantt bar for PS30830]																																																	
PS30840	30% Design Review - PS#0301	8	23-Oct-15 A	30-Oct-15 A	[Gantt bar for PS30840]																																																	
PS30850	60% Design Submittal - PS#0301	70	31-Oct-15 A	08-Jan-16 A	[Gantt bar for PS30850]																																																	
PS30860	60% Design Review - PS#0301	17	09-Jan-16 A	25-Jan-16 A	[Gantt bar for PS30860]																																																	
PS10070	Engineering Design - PS#0301	548	24-Nov-14 A	24-May-16 A	[Gantt bar for PS10070]																																																	
PS30870	100% Design Submittal - PS#0301	120	26-Jan-16 A	24-May-16 A	[Gantt bar for PS30870]																																																	
PS51260	EPA Compliance Date for Engineering Design - PS#0301	0		31-Oct-17 A	[Gantt bar for PS51260]																																																	
PS72630	Project on Hold - PS#0301 Construction	96	28-Jul-17 A	22-Dec-17 A	[Gantt bar for PS72630]																																																	
PS72610	100% Revised Design/Permit Ready Submittal - PS#0301 Construction	62	20-Mar-18 A	18-Dec-18 A	[Gantt bar for PS72610]																																																	
PS72890	Final Bid Set Submittal - PS#0301 Construction	30	10-Feb-19*	11-Mar-19	[Gantt bar for PS72890]																																																	
Permitting					[Gantt bar for Permitting Phase]																																																	
PS41620	DERM Permit - PS#0301	920	23-May-16 A	10-Mar-19	[Gantt bar for PS41620]																																																	
PS41660	Municipality Bldg. Dept. Permit Approval - PS#0301	64	23-May-16 A	04-Nov-16 A	[Gantt bar for PS41660]																																																	
PS51870	EPA Start Date for Permitting - PS#0301 Construction	8	29-Sep-16 A	07-Dec-16 A	[Gantt bar for PS51870]																																																	
PS51270	EPA Compliance Date for Permitting - PS#0301 Construction	0		29-Apr-18 A	[Gantt bar for PS51270]																																																	
PS72780	Site Plan Approval for Revised Drawings - PS#0301 Construction	60	04-Jun-18 A	21-Jun-18 A	[Gantt bar for PS72780]																																																	
PS72620	DERM/RER Permit Approval for Revised Drawings - PS#0301 Construction	60	10-Aug-18 A	14-Jan-19	[Gantt bar for PS72620]																																																	
PS723760	Wetland Delineation Permit - PS#0301 Construction	30	07-Nov-18 A	14-Jan-19	[Gantt bar for PS723760]																																																	
PS723770	Tree Permit - PS#0301 Construction	30	07-Nov-18 A	14-Jan-19	[Gantt bar for PS723770]																																																	
PS10220	Permitting for Revised Drawings - PS#0301 Construction	117	10-Aug-18 A	10-Mar-19	[Gantt bar for PS10220]																																																	
PS72790	MCD Fire/DERM Env Permit for Revised Drawings - PS#0301 Construction	60	10-Jan-19*	10-Mar-19	[Gantt bar for PS72790]																																																	
PS72800	City of Sunny Isle Bldg Permit Approval for Revised Drawings - PS#0301 Construction	60	10-Jan-19	10-Mar-19	[Gantt bar for PS72800]																																																	
Procurement					[Gantt bar for Procurement Phase]																																																	
PS32650	Design Documents Sent to Procurement - PS#0301	0	08-Dec-16 A		[Gantt bar for PS32650]																																																	
PS32660	Submit/Approve SBD Goals and Request to Advertise - PS#0301	105	08-Dec-16 A	22-Mar-17 A	[Gantt bar for PS32660]																																																	
PS32670	Advertise Bid Package - PS#0301	0	23-Mar-17 A		[Gantt bar for PS32670]																																																	
PS32680	Bid Solicitation Period - PS#0301	35	23-Mar-17 A	26-Apr-17 A	[Gantt bar for PS32680]																																																	
PS32690	Bids Due - PS#0301	0	27-Apr-17 A		[Gantt bar for PS32690]																																																	
PS32700	Bid Review Period - PS#0301	93	27-Apr-17 A	28-Jul-17 A	[Gantt bar for PS32700]																																																	
PS32710	Scope Change Letter sent to EPA - PS#0301	0		28-Jul-17 A	[Gantt bar for PS32710]																																																	
PS51880	EPA Start Date for Procurement - PS#0301 Construction	0	30-Apr-18 A		[Gantt bar for PS51880]																																																	
PS51280	EPA Compliance Date for Procurement - PS#0301 Construction	0		26-Oct-18 A	[Gantt bar for PS51280]																																																	
PS72820	Design Documents Sent to Procurement - PS#0301 Construction	0	11-Mar-19		[Gantt bar for PS72820]																																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Construction					26-Mar-19, Construction																																	
PS33290	Contractor Notice to Proceed (NTP) - PS#0187	0	09-Mar-17 A	26-Mar-19	◆ Contractor Notice to Proceed (NTP) - PS#0187																																	
PS71600	EPA Start Date for Construction - Replace S/G at PS#0187	0	01-Apr-17 A		◆ EPA Start Date for Construction - Replace S/G at PS#0187																																	
PS10560	Construction - Replace S/G at PS#0187	416	09-Mar-17 A	31-Jan-19	Construction - Replace S/G at PS#0187																																	
PS723070	Commissioning - PS#0187	35	04-Nov-18 A	31-Jan-19	■ Commissioning - PS#0187																																	
PS10820	Substantial Completion (CD Compliance Date 3/26/19) - Replace S/G at PS#0187	0		31-Jan-19*	◆ Substantial Completion (CD Compliance Date 3/26/19) - Replace S/G at PS#0187																																	
PS40870	Project Closeout - PS#0187	35	01-Feb-19	07-Mar-19*	■ Project Closeout - PS#0187																																	
PS51140	EPA Compliance Date for Construction - Replace S/G at PS#0187	0		26-Mar-19*	◆ EPA Compliance Date for Construction - Replace S/G at PS#0187																																	
Project Administration					07-Mar-19, Project Administration																																	
PS35250	WASD Project Administration - Replace S/G at PS#0187	1194	24-Feb-15 A	07-Mar-19	■ WASD Project Administration - Replace S/G at PS#0187																																	
5.13 Refurbish Emergency Generators and Controls at Regional Pump Stations					20-Jul-16 A, 5.13 Refurbish Emergency Generators and Controls at Regional Pump Stations																																	
Engineering Design					g Design																																	
PS71610	EPA Start Date for Engineering Design - Refurbish Emer Gen Controls at Pumpstations**	99	02-Sep-14 A	10-Dec-14 A	Design - Refurbish Emer Gen Controls at Pumpstations**																																	
PS10030	Engineering Design (NA) - Refurbish Emer Gen Controls at Pumpstations	40	12-Sep-14 A	21-Oct-14 A) - Refurbish Emer Gen Controls at Pumpstations																																	
PS51300	EPA Compliance Date for Engineering Design - Refurbish Emer Gen Controls at Pumpstations	0		10-Dec-14 A	r Engineering Design - Refurbish Emer Gen Controls at Pumpstations																																	
Permitting					mitting																																	
PS10180	Permitting (NA) - Refurbish Emer Gen Controls at Pumpstations	209	12-Sep-14 A	09-Apr-15 A	- Refurbish Emer Gen Controls at Pumpstations																																	
PS71620	EPA Start Date for Permitting - Refurbish Emer Gen Controls at Pumpstations	0	11-Dec-14 A		Permitting - Refurbish Emer Gen Controls at Pumpstations																																	
PS51310	EPA Compliance Date for Permitting - Refurbish Emer Gen Controls at Pumpstations	0		09-Apr-15 A	Date for Permitting - Refurbish Emer Gen Controls at Pumpstations																																	
Procurement					22-Jun-16 A, Procurement																																	
PS30390	5.13 (14) Procurement - Refurbish PS#0522 Emergency Generator & Controls	649	12-Sep-14 A	22-Jun-16 A	Refurbish PS#0522 Emergency Generator & Controls																																	
PS30480	5.13 (17) Procurement - Refurbish PS#0683 Emergency Generator & Controls	40	12-Sep-14 A	21-Oct-14 A	Refurbish PS#0683 Emergency Generator & Controls																																	
PS30360	5.13 (13) Procurement - Refurbish PS#0517 Emergency Generator & Controls	40	19-Sep-14 A	28-Oct-14 A	Refurbish PS#0517 Emergency Generator & Controls																																	
PS30510	5.13 (18) Procurement - Refurbish PS#685 Emergency Generator & Controls	40	19-Sep-14 A	28-Oct-14 A	Refurbish PS#685 Emergency Generator & Controls																																	
PS30180	5.13 (7) Procurement - Refurbish PS#0422 Emergency Generator & Controls	38	07-Oct-14 A	13-Nov-14 A	Refurbish PS#0422 Emergency Generator & Controls																																	
PS71630	EPA Start Date for Procurement - Refurbish Emer Gen Controls at Pumpstations	0	03-Jan-15 A		Refurbish PS#0422 Emergency Generator & Controls																																	
PS30450	5.13 (16) Procurement - Refurbish PS#0681 Emergency Generator & Controls	77	22-Oct-14 A	06-Jan-15 A	Procurement - Refurbish Emer Gen Controls at Pumpstations																																	
PS30420	5.13 (15) Procurement - Refurbish PS#0571 Emergency Generator & Controls	77	22-Oct-14 A	06-Jan-15 A	- Refurbish PS#0681 Emergency Generator & Controls																																	
PS30300	5.13 (11) Procurement - Refurbish PS#0426 Emergency Generator & Controls	77	22-Oct-14 A	06-Jan-15 A	- Refurbish PS#0571 Emergency Generator & Controls																																	
PS30240	5.13 (9) Procurement - Refurbish PS#0424 Emergency Generator & Controls	59	02-Feb-15 A	01-Apr-15 A	- Refurbish PS#0426 Emergency Generator & Controls																																	
PS30120	5.13 (5) Procurement - Refurbish PS#0348 Emergency Generator & Controls	73	20-Jan-15 A	02-Apr-15 A	Procurement - Refurbish PS#0424 Emergency Generator & Controls																																	
PS30090	5.13 (4) Procurement - Refurbish PS#0347 Emergency Generator & Controls	52	16-Feb-15 A	08-Apr-15 A	Procurement - Refurbish PS#0348 Emergency Generator & Controls																																	
PS30330	5.13 (12) Procurement - Refurbish PS#0516 Emergency Generator & Controls	102	05-Jan-15 A	16-Apr-15 A	Procurement - Refurbish PS#0347 Emergency Generator & Controls																																	
PS30150	5.13 (6) Procurement - Refurbish PS#0421 Emergency Generator & Controls	2	22-Apr-15 A	23-Apr-15 A	Procurement - Refurbish PS#0516 Emergency Generator & Controls																																	
PS30000	5.13 (1) Procurement - Refurbish PS#0306 Emergency Generator & Controls	136	22-Dec-14 A	06-May-15 A	Procurement - Refurbish PS#0421 Emergency Generator & Controls																																	
PS30030	5.13 (2) Procurement - Refurbish PS#0345 Emergency Generator & Controls	26	04-May-15 A	29-May-15 A	Procurement - Refurbish PS#0306 Emergency Generator & Controls																																	
PS30270	5.13 (10) Procurement - Refurbish PS#0425 Emergency Generator & Controls	26	04-May-15 A	29-May-15 A	Procurement - Refurbish PS#0345 Emergency Generator & Controls																																	
PS30540	5.13 (19) Procurement - Refurbish PS#1072 Emergency Generator & Controls	22	15-Jun-15 A	06-Jul-15 A	Procurement - Refurbish PS#0425 Emergency Generator & Controls																																	
PS30210	5.13 (8) Procurement - Refurbish PS#0423 Emergency Generator & Controls	22	15-Jun-15 A	06-Jul-15 A	Procurement - Refurbish PS#1072 Emergency Generator & Controls																																	
PS30570	5.13 (20) Procurement - Refurbish PS#1073 Emergency Generator & Controls	31	10-Aug-15 A	09-Sep-15 A	Procurement - Refurbish PS#0423 Emergency Generator & Controls																																	
PS10340	Procurement (Summary) - Refurbish Emer Gen Controls at Pumpstations	364	12-Sep-14 A	10-Sep-15 A	20) Procurement - Refurbish PS#1073 Emergency Generator & Controls																																	
PS30060	5.13 (3) Procurement - Refurbish PS#0346 Emergency Generator & Controls	32	10-Aug-15 A	10-Sep-15 A	Procurement (Summary) - Refurbish Emer Gen Controls at Pumpstations																																	
PS51320	EPA Compliance Date for Procurement - Refurbish Emer Gen Controls at Pumpstations	0		22-Jun-16 A	3) Procurement - Refurbish PS#0346 Emergency Generator & Controls																																	
Construction					20-Jul-16 A, Construction																																	
PS30490	5.13 (17) Construction - Refurbish PS#0683 Emergency Generator & Controls	637	22-Oct-14 A	20-Jul-16 A	Refurbish PS#0683 Emergency Generator & Controls																																	
PS30520	5.13 (18) Construction - Refurbish PS#0685 Emergency Generator & Controls	29	29-Oct-14 A	26-Nov-14 A	Refurbish PS#0685 Emergency Generator & Controls																																	
PS30190	5.13 (7) Construction - Refurbish PS#0422 Emergency Generator & Controls	18	14-Nov-14 A	01-Dec-14 A	Refurbish PS#0422 Emergency Generator & Controls																																	
PS30370	5.13 (13) Construction - Refurbish PS#0517 Emergency Generator & Controls	25	14-Nov-14 A	08-Dec-14 A	Refurbish PS#0517 Emergency Generator & Controls																																	
PS30400	5.13 (14) Construction - Refurbish PS#0522 Emergency Generator & Controls	27	14-Nov-14 A	10-Dec-14 A	Refurbish PS#0522 Emergency Generator & Controls																																	
PS30310	5.13 (11) Construction - Refurbish PS#0426 Emergency Generator & Controls	83	22-Oct-14 A	12-Jan-15 A	- Refurbish PS#0426 Emergency Generator & Controls																																	
PS30460	5.13 (16) Construction - Refurbish PS#0681 Emergency Generator & Controls	29	07-Jan-15 A	04-Feb-15 A	n - Refurbish PS#0681 Emergency Generator & Controls																																	
PS30430	5.13 (15) Construction - Refurbish PS#0571 Emergency Generator & Controls	29	13-Jan-15 A	10-Feb-15 A	on - Refurbish PS#0571 Emergency Generator & Controls																																	
PS30160	5.13 (6) Construction - Refurbish PS#0421 Emergency Generator & Controls	29	20-Jan-15 A	17-Feb-15 A	on - Refurbish PS#0421 Emergency Generator & Controls																																	
PS30100	5.13 (4) Construction - Refurbish PS#0347 Emergency Generator & Controls	2	22-Apr-15 A	23-Apr-15 A	uction - Refurbish PS#0347 Emergency Generator & Controls																																	
PS30250	5.13 (9) Construction - Refurbish PS#0424 Emergency Generator & Controls	29	09-Apr-15 A	07-May-15 A	uction - Refurbish PS#0424 Emergency Generator & Controls																																	
PS30130	5.13 (5) Construction - Refurbish PS#0348 Emergency Generator & Controls	29	10-Apr-15 A	08-May-15 A	uction - Refurbish PS#0348 Emergency Generator & Controls																																	
PS30040	5.13 (2) Construction - Refurbish PS#0345 Emergency Generator & Controls	55	03-Apr-15 A	27-May-15 A	struction - Refurbish PS#0345 Emergency Generator & Controls																																	
PS30280	5.13 (10) Construction - Refurbish PS#0425 Emergency Generator & Controls	10	01-Jun-15 A	10-Jun-15 A	struction - Refurbish PS#0425 Emergency Generator & Controls																																	
PS30010	5.13 (1) Construction - Refurbish PS#0306 Emergency Generator & Controls	12	01-Jun-15 A	12-Jun-15 A	struction - Refurbish PS#0306 Emergency Generator & Controls																																	
PS30550	5.13 (19) Construction - Refurbish PS#1072 Emergency Generator & Controls	81	12-May-15 A	31-Jul-15 A	Construction - Refurbish PS#1072 Emergency Generator & Controls																																	
PS30220	5.13 (8) Construction - Refurbish PS#0423 Emergency Generator & Controls	29	07-Jul-15 A	04-Aug-15 A) Construction - Refurbish PS#0423 Emergency Generator & Controls																																	
PS30580	5.13 (20) Construction - Refurbish PS#1073 Emergency Generator & Controls	29	07-Jul-15 A	04-Aug-15 A	Construction - Refurbish PS#1073 Emergency Generator & Controls																																	
PS30070	5.13 (3) Construction - Refurbish PS#0346 Emergency Generator & Controls	19	10-Sep-15 A	28-Sep-15 A	(20) Construction - Refurbish PS#0346 Emergency Generator & Controls																																	
PS71640	EPA Start Date for Construction - Refurbish Emer Gen Controls at Pumpstations	29	11-Sep-15 A	09-Oct-15 A	(3) Construction - Refurbish PS#0346 Emergency Generator & Controls																																	
PS10520	Construction (Summary) - Refurbish Emer Gen Controls at Pumpstations	0	03-Jan-16 A		◆ EPA Start Date for Construction - Refurbish Emer Gen Controls at Pumpstations																																	
PS30340	5.13 (12) Construction - Refurbish PS#0516 Emergency Generator & Controls	464	29-Oct-14 A	04-Feb-16 A	Construction (Summary) - Refurbish Emer Gen Controls at Pumpstations																																	
PS10630	Substantial Completion (CD Compliance Date 7/20/16) - Refurbish Emer Gen Controls at Pumpstations	269	12-May-15 A	04-Feb-16 A	■ 5.13 (12) Construction - Refurbish PS#0516 Emergency Generator & Controls																																	
PS51330	EPA Compliance Date for Construction - Refurbish Emer Gen Controls at Pumpstations	0		20-Jul-16 A	◆ Substantial Completion (CD Compliance Date 7/20/16) - Refurbish Emer Gen Controls at Pumpstations																																	
Project Administration					04-Feb-16 A, Project Administration																																	
PS72640	WASD Project Administration - Refurbish Emergency Generator & Controls	268	12-May-15 A	04-Feb-16 A	■ WASD Project Administration - Refurbish Emergency Generator & Controls																																	
5.14 Upgrade of PS#0086, 0492																																						
Procurement																																						
PS10000	Procurement - Upgrade PS#0086, 0492	383	19-Mar-12 A	06-Apr-13 A																																		
PS71650	EPA Start Date for Procurement - Upgrade PS#0086, 0492	183	19-Mar-12 A	17-Sep-12 A																																		

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
PS12082	Construction - PS#0201 Compliance Project	169	20-Mar-15 A	04-Sep-15 A	Construction - PS#0201 Compliance Project																																	
PS12092	Substantial Completion (CD Compliance Date 12/31/15) - PS#0201 Compliance Project	0		04-Sep-15 A	Substantial Completion (CD Compliance Date 12/31/15) - PS#0201 Compliance Project																																	
Project Administration																																						
PS72750	WASD Project Administration - PS#0201 Compliance Project	976	01-Jan-13 A	04-Sep-15 A	WASD Project Administration - PS#0201 Compliance Project																																	
5.15 (3) Pump Station 0334 Compliance Project																																						
Engineering Design																																						
PS12102	Engineering Design - PS#0334 Compliance Project	367	01-Jan-13 A	03-Jan-14 A	Engineering Design - PS#0334 Compliance Project																																	
Permitting																																						
PS12112	Permitting - PS#0334 Compliance Project	368	01-Jan-13 A	03-Jan-14 A	Permitting - PS#0334 Compliance Project																																	
Procurement																																						
PS12122	Procurement - PS#0334 Compliance Project	172	06-Jan-14 A	27-Jun-14 A	Procurement - PS#0334 Compliance Project																																	
Construction																																						
PS12132	Construction - PS#0334 Compliance Project	232	17-Jun-14 A	04-Feb-15 A	Construction - PS#0334 Compliance Project																																	
PS12142	Substantial Completion (CD Compliance Date 12/31/15) - PS#0334 Compliance Project	233	17-Jun-14 A	04-Feb-15 A	Substantial Completion (CD Compliance Date 12/31/15) - PS#0334 Compliance Project																																	
Project Administration																																						
PS72690	WASD Project Administration - PS#0334 Compliance Project	328	05-Feb-15 A	30-Dec-15 A	WASD Project Administration - PS#0334 Compliance Project																																	
5.15 (3.1) FM for Pump Station 0334																																						
Engineering Design																																						
PS12152	Engineering Design - FM for Pump Station 0334	1093	01-Jan-13 A	30-Dec-15 A	Engineering Design - FM for Pump Station 0334																																	
Permitting																																						
PS12162	Permitting - FM for Pump Station 0334	367	01-Jan-13 A	03-Jan-14 A	Permitting - FM for Pump Station 0334																																	
Procurement																																						
PS12172	Procurement - FM for Pump Station 0334	219	06-Jan-14 A	13-Aug-14 A	Procurement - FM for Pump Station 0334																																	
Construction																																						
PS12182	Construction - FM for Pump Station 0334	220	06-Jan-14 A	13-Aug-14 A	Construction - FM for Pump Station 0334																																	
PS12192	Substantial Completion (CD Compliance Date 12/31/15) - FM for Pump Station 0334	146	30-Jun-14 A	23-Nov-14 A	Substantial Completion (CD Compliance Date 12/31/15) - FM for Pump Station 0334																																	
Project Administration																																						
PS72700	WASD Project Administration - FM for Pump Station 0334	147	30-Jun-14 A	23-Nov-14 A	WASD Project Administration - FM for Pump Station 0334																																	
5.15 (4) Pump Station No. 0374 Upgrade																																						
Engineering Design																																						
PS12202	Engineering Design - PS#0374 Upgrade	154	24-Nov-14 A	27-Apr-15 A	Engineering Design - PS#0374 Upgrade																																	
Permitting																																						
PS12212	Permitting - PS#0374 Upgrade	155	24-Nov-14 A	27-Apr-15 A	Permitting - PS#0374 Upgrade																																	
Procurement																																						
PS12222	Procurement - PS#0374 Upgrade	846	01-Jan-13 A	27-Apr-15 A	Procurement - PS#0374 Upgrade																																	
Construction																																						
PS12232	Construction - PS#0374 Upgrade - Completed In-House	847	01-Jan-13 A	27-Apr-15 A	Construction - PS#0374 Upgrade - Completed In-House																																	
PS12242	Substantial Completion (CD Compliance Date 12/31/15) - PS#0374 Upgrade	1118	12-Dec-10 A	03-Jan-14 A	Substantial Completion (CD Compliance Date 12/31/15) - PS#0374 Upgrade																																	
Project Administration																																						
PS72710	WASD Project Administration - PS#0374 Upgrade - Completed In-House	1119	12-Dec-10 A	03-Jan-14 A	WASD Project Administration - PS#0374 Upgrade - Completed In-House																																	
5.15 (4.1) Pump Station No. 0374 FM Installation																																						
Engineering Design																																						
PS12252	Engineering Design - PS#0374 FM Installation	1118	12-Dec-10 A	03-Jan-14 A	Engineering Design - PS#0374 FM Installation																																	
Permitting																																						
PS12262	Permitting - PS#0374 FM Installation	1119	12-Dec-10 A	03-Jan-14 A	Permitting - PS#0374 FM Installation																																	
Procurement																																						
PS12272	Procurement - PS#0374 FM Installation	1118	12-Dec-10 A	03-Jan-14 A	Procurement - PS#0374 FM Installation																																	
Construction																																						
PS12282	Construction - PS#0374 FM Installation - Completed In-House	1119	12-Dec-10 A	03-Jan-14 A	Construction - PS#0374 FM Installation - Completed In-House																																	
PS12292	Substantial Completion (CD Compliance Date 12/31/15) - PS#0374 FM Installation	0		03-Jan-14 A	Substantial Completion (CD Compliance Date 12/31/15) - PS#0374 FM Installation																																	
Project Administration																																						
PS72680	WASD Project Administration - PS#0374 FM Installation	1119	12-Dec-10 A	03-Jan-14 A	WASD Project Administration - PS#0374 FM Installation																																	
5.15 (5) Pump Station 0607 Compliance Project																																						
Engineering Design																																						
PS12302	Engineering Design - PS#0607 Compliance Project	1025	01-Jan-13 A	23-Oct-15 A	Engineering Design - PS#0607 Compliance Project																																	
Permitting																																						
PS12312	Permitting - PS#0607 Compliance Project	367	01-Jan-13 A	03-Jan-14 A	Permitting - PS#0607 Compliance Project																																	
Procurement																																						
PS12322	Procurement - PS#0607 Compliance Project	151	06-Jan-14 A	06-Jun-14 A	Procurement - PS#0607 Compliance Project																																	
Construction																																						
PS12332	Construction - PS#0607 Compliance Project	210	30-Jun-14 A	26-Jan-15 A	Construction - PS#0607 Compliance Project																																	
PS12342	Substantial Completion (CD Compliance Date 12/31/15) - PS#0607 Compliance Project	211	30-Jun-14 A	26-Jan-15 A	Substantial Completion (CD Compliance Date 12/31/15) - PS#0607 Compliance Project																																	
Project Administration																																						
PS72670	WASD Project Administration - PS#0607 Compliance Project	269	27-Jan-15 A	23-Oct-15 A	WASD Project Administration - PS#0607 Compliance Project																																	
5.16 Upgrade of PS#0198, 0437, 0466, 0680																																						
Engineering Design																																						
PS71710	EPA Start Date for Engineering Design - Upgrade PS#0198, 0437, 0466, 0680**	273	02-Jan-15 A	02-Oct-15 A	EPA Start Date for Engineering Design - Upgrade PS#0198, 0437, 0466, 0680**																																	
PS51400	EPA Compliance Date for Engineering Design - Upgrade PS#0198, 0437, 0466, 0680**	0		06-Sep-15 A	EPA Compliance Date for Engineering Design - Upgrade PS#0198, 0437, 0466, 0680**																																	
PS10330	Engineering Design - Upgrade PS#0198, 0437, 0466, 0680	155	01-May-15 A	02-Oct-15 A	Engineering Design - Upgrade PS#0198, 0437, 0466, 0680																																	
Permitting																																						
PS71720	EPA Start Date for Permitting - Upgrade PS#0198, 0437, 0466, 0680	140	10-Aug-15 A	28-Dec-15 A	EPA Start Date for Permitting - Upgrade PS#0198, 0437, 0466, 0680																																	
PS51410	EPA Compliance Date for Permitting - Upgrade PS#0198, 0437, 0466, 0680**	0		07-Sep-15 A	EPA Compliance Date for Permitting - Upgrade PS#0198, 0437, 0466, 0680**																																	
PS10430	Permitting - Upgrade PS#0198, 0437, 0466, 0680	141	10-Aug-15 A	28-Dec-15 A	Permitting - Upgrade PS#0198, 0437, 0466, 0680																																	
Procurement																																						
PS71730	EPA Start Date for Procurement - Upgrade PS#0198, 0437, 0466, 0680	229	04-Nov-15 A	20-Jun-16 A	EPA Start Date for Procurement - Upgrade PS#0198, 0437, 0466, 0680																																	
PS51420	EPA Compliance Date for Procurement - Upgrade PS#0198, 0437, 0466, 0680**	0		06-Dec-15 A	EPA Compliance Date for Procurement - Upgrade PS#0198, 0437, 0466, 0680**																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2016		2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
PS10490	Procurement - Upgrade PS#0198, 0437, 0466, 0680	230	04-Nov-15 A	20-Jun-16 A	Procurement - Upgrade PS#0198, 0437, 0466, 0680																															
Construction					31-Dec-18, Construction																															
PS17140	EPA Start Date for Construction - Upgrade PS#0198, 0437, 0466, 0680	0	03-Jun-16 A		EPA Start Date for Construction - Upgrade PS#0198, 0437, 0466, 0680																															
PS10540	Construction - Upgrade PS#0198, 0437, 0466, 0680	562	18-Apr-16 A	24-Jan-18 A	Construction - Upgrade PS#0198, 0437, 0466, 0680																															
PS10700	Substantial Completion (CD Compliance Date 12/31/18) - Upgrade PS#0198, 0437, 0466, 0680	0		24-Jan-18 A	Substantial Completion (CD Compliance Date 12/31/18) - Upgrade PS#0198, 0437, 0466, 0680																															
PS51430	EPA Compliance Date for Construction - Upgrade PS#0198, 0437, 0466, 0680**	0		31-Dec-18*	EPA Compliance Date for Construction - Upgrade PS#0198, 0437, 0466, 0680**																															
5.16 (1) Pump Station 0198 Compliance Project					28-Feb-19, 5.16 (1) Pump Station 0198 Compliance Project																															
Pre-Design																																				
PS20290	Pre-Design - PS#0198 Compliance Project	179	03-Nov-14 A	30-Apr-15 A	Pre-Design - PS#0198 Compliance Project																															
Engineering Design																																				
PS12352	Engineering Design - PS#0198 Compliance Project	96	01-May-15 A	04-Aug-15 A	Engineering Design - PS#0198 Compliance Project																															
Permitting																																				
PS12362	Permitting - PS#0198 Compliance Project	67	10-Aug-15 A	15-Oct-15 A	Permitting - PS#0198 Compliance Project																															
Procurement																																				
PS33300	Design Documents Sent to Procurement - PS#0198 Compliance Project	0	04-Nov-15 A		Design Documents Sent to Procurement - PS#0198 Compliance Project																															
PS33310	Submit/Approve SBD Goals and Request to Advertise - PS#0198 Compliance Project	26	04-Nov-15 A	29-Nov-15 A	Submit/Approve SBD Goals and Request to Advertise - PS#0198 Compliance Project																															
PS33320	Advertise Bid Package - PS#0198 Compliance Project	0	07-Dec-15 A		Advertise Bid Package - PS#0198 Compliance Project																															
PS33330	Bid Solicitation Period - PS#0198 Compliance Project	31	07-Dec-15 A	06-Jan-16 A	Bid Solicitation Period - PS#0198 Compliance Project																															
PS33340	Bids Due - PS#0198 Compliance Project	0	06-Jan-16 A		Bids Due - PS#0198 Compliance Project																															
PS33350	Bid Review Period - PS#0198 Compliance Project	20	06-Jan-16 A	25-Jan-16 A	Bid Review Period - PS#0198 Compliance Project																															
PS41140	Bid Cancellation - PS#0198 Compliance Project	3	26-Jan-16 A	28-Jan-16 A	Bid Cancellation - PS#0198 Compliance Project																															
PS41150	Re-Bid Solicitation - PS#0198 Compliance Project	30	09-Feb-16 A	09-Mar-16 A	Re-Bid Solicitation - PS#0198 Compliance Project																															
PS41160	Re-Bids Due - PS#0198 Compliance Project	0	10-Mar-16 A		Re-Bids Due - PS#0198 Compliance Project																															
PS41170	Re-Bid Review Period - PS#0198 Compliance Project	14	10-Mar-16 A	23-Mar-16 A	Re-Bid Review Period - PS#0198 Compliance Project																															
PS33360	Award Recommendation - PS#0198 Compliance Project	0		23-Mar-16 A	Award Recommendation - PS#0198 Compliance Project																															
PS12372	Procurement - PS#0198 Compliance Project	163	04-Nov-15 A	14-Apr-16 A	Procurement - PS#0198 Compliance Project																															
PS33370	Final Approvals - PS#0198 Compliance Project	22	24-Mar-16 A	14-Apr-16 A	Final Approvals - PS#0198 Compliance Project																															
PS50780	P.O. Issued - PS#0198 Compliance Project	0		14-Apr-16 A	P.O. Issued - PS#0198 Compliance Project																															
Construction					28-Feb-19, Construction																															
PS33380	Contractor Notice to Proceed (NTP) - PS#0198 Compliance Project	0	25-Apr-16 A		Contractor Notice to Proceed (NTP) - PS#0198 Compliance Project																															
PS12382	Construction - PS#0198 Compliance Project	562	18-Apr-16 A	24-Jan-18 A	Construction - PS#0198 Compliance Project																															
PS12392	Substantial Completion - PS#0198 Compliance Project	0		24-Jan-18 A	Substantial Completion - PS#0198 Compliance Project																															
PS40880	Project Closeout - PS#0198 Compliance Project	90	25-Jan-18 A	28-Feb-19*	Project Closeout - PS#0198 Compliance Project																															
Project Administration																																				
PS35240	WASD Project Administration - PS#0198 Compliance Project	1005	01-May-15 A	28-Feb-19	WASD Project Administration - PS#0198 Compliance Project																															
5.16 (2) Pump Station No. 0437 Upgrade					28-Feb-19, 5.16 (2) Pump Station No. 0437 Upgrade																															
Pre-Design																																				
PS20300	Pre-Design - PS#0437 Upgrade	179	03-Nov-14 A	30-Apr-15 A	Pre-Design - PS#0437 Upgrade																															
Engineering Design																																				
PS12402	Engineering Design - PS#0437 Upgrade	96	01-May-15 A	04-Aug-15 A	Engineering Design - PS#0437 Upgrade																															
Permitting																																				
PS12412	Permitting - PS#0437 Upgrade	67	10-Aug-15 A	16-Oct-15 A	Permitting - PS#0437 Upgrade																															
Procurement																																				
PS33390	Design Documents Sent to Procurement - PS#0437 Upgrade	0	24-Nov-15 A		Design Documents Sent to Procurement - PS#0437 Upgrade																															
PS33410	Advertise Bid Package - PS#0437 Upgrade	0	09-Dec-15 A		Advertise Bid Package - PS#0437 Upgrade																															
PS33400	Submit/Approve SBD Goals and Request to Advertise - PS#0437 Upgrade	46	24-Nov-15 A	08-Jan-16 A	Submit/Approve SBD Goals and Request to Advertise - PS#0437 Upgrade																															
PS33420	Bid Solicitation Period - PS#0437 Upgrade	31	09-Dec-15 A	08-Jan-16 A	Bid Solicitation Period - PS#0437 Upgrade																															
PS33430	Bids Due - PS#0437 Upgrade	0	09-Jan-16 A		Bids Due - PS#0437 Upgrade																															
PS33440	Bid Review Period - PS#0437 Upgrade	12	09-Jan-16 A	20-Jan-16 A	Bid Review Period - PS#0437 Upgrade																															
PS33450	Award Recommendation - PS#0437 Upgrade	0		20-Jan-16 A	Award Recommendation - PS#0437 Upgrade																															
PS33460	Final Approvals - PS#0437 Upgrade	28	21-Jan-16 A	17-Feb-16 A	Final Approvals - PS#0437 Upgrade																															
PS50790	P.O. Issued - PS#0437 Upgrade	0		17-Feb-16 A	P.O. Issued - PS#0437 Upgrade																															
PS12422	Procurement - PS#0437 Upgrade	146	24-Nov-15 A	17-Apr-16 A	Procurement - PS#0437 Upgrade																															
Construction					28-Feb-19, Construction																															
PS33470	Contractor Notice to Proceed (NTP) - PS#0437 Upgrade	0	18-Apr-16 A		Contractor Notice to Proceed (NTP) - PS#0437 Upgrade																															
PS12432	Construction - PS#0437 Upgrade	243	02-May-16 A	30-Dec-16 A	Construction - PS#0437 Upgrade																															
PS12442	Substantial Completion (CD Compliance Date 12/31/18) - PS#0437 Upgrade	0		30-Dec-16 A	Substantial Completion (CD Compliance Date 12/31/18) - PS#0437 Upgrade																															
PS40890	Project Closeout - PS#0437 Upgrade	274	31-Dec-16 A	28-Feb-19*	Project Closeout - PS#0437 Upgrade																															
Project Administration																																				
PS35230	WASD Project Administration - PS#0437 Upgrade	884	01-May-15 A	28-Feb-19	WASD Project Administration - PS#0437 Upgrade																															
5.16 (3) Pump Station 0466 Compliance Project					27-Oct-17 A, 5.16 (3) Pump Station 0466 Compliance Project																															
Pre-Design																																				
PS20310	Pre-Design - PS#0466 Compliance Project	264	03-Nov-14 A	24-Jul-15 A	Pre-Design - PS#0466 Compliance Project																															
Engineering Design																																				
PS12452	Engineering Design - PS#0466 Compliance Project	67	27-Jul-15 A	02-Oct-15 A	Engineering Design - PS#0466 Compliance Project																															
Permitting																																				
PS12462	Permitting - PS#0466 Compliance Project	1	02-Oct-15 A	02-Oct-15 A	Permitting - PS#0466 Compliance Project																															
Procurement																																				
PS33480	Design Documents Sent to Procurement - PS#0466 Compliance Project	0	26-Feb-16 A		Design Documents Sent to Procurement - PS#0466 Compliance Project																															
PS33490	Submit/Approve SBD Goals and Request to Advertise - PS#0466 Compliance Project	18	26-Feb-16 A	14-Mar-16 A	Submit/Approve SBD Goals and Request to Advertise - PS#0466 Compliance Project																															
PS33500	Advertise Bid Package - PS#0466 Compliance Project	0	15-Mar-16 A		Advertise Bid Package - PS#0466 Compliance Project																															
PS33510	Bid Solicitation Period - PS#0466 Compliance Project	32	15-Mar-16 A	15-Apr-16 A	Bid Solicitation Period - PS#0466 Compliance Project																															
PS33520	Bids Due - PS#0466 Compliance Project	0	15-Apr-16 A		Bids Due - PS#0466 Compliance Project																															
PS33530	Bid Review Period - PS#0466 Compliance Project	8	15-Apr-16 A	22-Apr-16 A	Bid Review Period - PS#0466 Compliance Project																															
PS33540	Award Recommendation - PS#0466 Compliance Project	0		22-Apr-16 A	Award Recommendation - PS#0466 Compliance Project																															

Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
PS12472	Procurement - PS#0466 Compliance Project	116	26-Feb-16 A	20-Jun-16 A	Procurement - PS#0466 Compliance Project																																	
PS33550	Final Approvals - PS#0466 Compliance Project	59	23-Apr-16 A	20-Jun-16 A	Final Approvals - PS#0466 Compliance Project																																	
PS50810	P.O. Issued - PS#0466 Compliance Project	0	20-Jun-16 A		P.O. Issued - PS#0466 Compliance Project																																	
Construction																																						
PS33560	Contractor Notice to Proceed (NTP) - PS#0466 Compliance Project	0	11-Jul-16 A	27-Oct-17 A	Contractor Notice to Proceed (NTP) - PS#0466 Compliance Project																																	
PS12482	Construction - PS#0466 Compliance Project	103	11-Jul-16 A	21-Oct-16 A	Construction - PS#0466 Compliance Project																																	
PS12492	Substantial Completion (CD Compliance Date 12/31/18) - PS#0466 Compliance Project	0		21-Oct-16 A	Substantial Completion (CD Compliance Date 12/31/18) - PS#0466 Compliance Project																																	
PS40900	Project Closeout - PS#0466 Compliance Project	344	22-Oct-16 A	27-Oct-17 A	Project Closeout - PS#0466 Compliance Project																																	
Project Administration																																						
PS35220	WASD Project Administration - PS#0466 Compliance Project	797	27-Jul-15 A	27-Oct-17 A	WASD Project Administration - PS#0466 Compliance Project																																	
5.16 (4) Pump Station 0680 Upgrade																																						
Pre-Design																																						
PS20320	Pre-Design - PS#0680 Upgrade	179	03-Nov-14 A	30-Apr-15 A	Pre-Design - PS#0680 Upgrade																																	
Engineering Design																																						
PS12502	Engineering Design - PS#0680 Upgrade	96	01-May-15 A	04-Aug-15 A	Engineering Design - PS#0680 Upgrade																																	
Permitting																																						
PS12512	Permitting - PS#0680 Upgrade	140	10-Aug-15 A	28-Dec-15 A	Permitting - PS#0680 Upgrade																																	
Procurement																																						
PS33570	Design Documents Sent to Procurement - PS#0680 Upgrade	0	24-Nov-15 A		Design Documents Sent to Procurement - PS#0680 Upgrade																																	
PS33580	Submit/Approve SBD Goals and Request to Advertise - PS#0680 Upgrade	16	24-Nov-15 A	09-Dec-15 A	Submit/Approve SBD Goals and Request to Advertise - PS#0680 Upgrade																																	
PS33590	Advertise Bid Package - PS#0680 Upgrade	0	09-Dec-15 A		Advertise Bid Package - PS#0680 Upgrade																																	
PS33600	Bid Solicitation Period - PS#0680 Upgrade	31	09-Dec-15 A	08-Jan-16 A	Bid Solicitation Period - PS#0680 Upgrade																																	
PS33610	Bids Due - PS#0680 Upgrade	0	09-Jan-16 A		Bids Due - PS#0680 Upgrade																																	
PS33620	Bid Review Period - PS#0680 Upgrade	12	09-Jan-16 A	20-Jan-16 A	Bid Review Period - PS#0680 Upgrade																																	
PS33630	Award Recommendation - PS#0680 Upgrade	0		20-Jan-16 A	Award Recommendation - PS#0680 Upgrade																																	
PS12522	Procurement - PS#0680 Upgrade	86	24-Nov-15 A	17-Feb-16 A	Procurement - PS#0680 Upgrade																																	
PS33640	Final Approvals - PS#0680 Upgrade	28	21-Jan-16 A	17-Feb-16 A	Final Approvals - PS#0680 Upgrade																																	
PS50800	P.O. Issued - PS#0680 Upgrade	0		17-Feb-16 A	P.O. Issued - PS#0680 Upgrade																																	
Construction																																						
PS33650	Contractor Notice to Proceed (NTP) - PS#0680 Upgrade	0	18-Apr-16 A	30-Jan-19	Contractor Notice to Proceed (NTP) - PS#0680 Upgrade																																	
PS12532	Construction - PS#0680 Upgrade	228	18-Apr-16 A	01-Dec-16 A	Construction - PS#0680 Upgrade																																	
PS12542	Substantial Completion (CD Compliance Date 12/31/18) - PS#0680 Upgrade	0		01-Dec-16 A	Substantial Completion (CD Compliance Date 12/31/18) - PS#0680 Upgrade																																	
PS40910	Project Closeout - PS#0680 Upgrade	303	02-Dec-16 A	30-Jan-19*	Project Closeout - PS#0680 Upgrade																																	
Project Administration																																						
PS35210	WASD Project Administration - PS#0680 Upgrade	884	01-May-15 A	30-Jan-19	WASD Project Administration - PS#0680 Upgrade																																	
5.17 Upgrade of PS#0037, 0351, 0370, 0403																																						
Engineering Design																																						
PS71750	EPA Start Date for Engineering Design - Upgrade PS#0037, 0351, 0370, 0403	0	02-Jan-16 A		EPA Start Date for Engineering Design - Upgrade PS#0037, 0351, 0370, 0403																																	
PS10510	Engineering Design - Upgrade PS#0037, 0351, 0370, 0403	337	05-Oct-15 A	05-Sep-16 A	Engineering Design - Upgrade PS#0037, 0351, 0370, 0403																																	
PS51440	EPA Compliance Date for Engineering Design - Upgrade PS#0037, 0351, 0370, 0403	0		05-Sep-16 A	EPA Compliance Date for Engineering Design - Upgrade PS#0037, 0351, 0370, 0403																																	
Permitting																																						
PS71760	EPA Start Date for Permitting - Upgrade PS#0037, 0351, 0370, 0403	0	06-Sep-16 A		EPA Start Date for Permitting - Upgrade PS#0037, 0351, 0370, 0403																																	
PS10620	Permitting - Upgrade PS#0037, 0351, 0370, 0403	257	05-Jun-16 A	16-Feb-17 A	Permitting - Upgrade PS#0037, 0351, 0370, 0403																																	
PS51450	EPA Compliance Date for Permitting - Upgrade PS#0037, 0351, 0370, 0403	0		15-Apr-17 A	EPA Compliance Date for Permitting - Upgrade PS#0037, 0351, 0370, 0403																																	
Procurement																																						
PS71770	EPA Start Date for Procurement - Upgrade PS#0037, 0351, 0370, 0403	0	29-Dec-16 A		EPA Start Date for Procurement - Upgrade PS#0037, 0351, 0370, 0403																																	
PS10690	Procurement - Upgrade PS#0037, 0351, 0370, 0403	164	23-Nov-16 A	05-May-17 A	Procurement - Upgrade PS#0037, 0351, 0370, 0403																																	
PS51460	EPA Compliance Date for Procurement - Upgrade PS#0037, 0351, 0370, 0403	0		15-May-17 A	EPA Compliance Date for Procurement - Upgrade PS#0037, 0351, 0370, 0403																																	
Construction																																						
PS71780	EPA Start Date for Construction - Upgrade PS#0037, 0351, 0370, 0403	0	16-May-17 A		EPA Start Date for Construction - Upgrade PS#0037, 0351, 0370, 0403																																	
PS10720	Construction - Upgrade PS#0037, 0351, 0370, 0403	203	12-Apr-17 A	30-Apr-18 A	Construction - Upgrade PS#0037, 0351, 0370, 0403																																	
PS10750	Substantial Completion (CD Compliance Date 11/20/18) - Upgrade PS#0037, 0351, 0370, 0403	0		30-Apr-18 A	Substantial Completion (CD Compliance Date 11/20/18) - Upgrade PS#0037, 0351, 0370, 0403																																	
PS51470	EPA Compliance Date for Construction - Upgrade PS#0037, 0351, 0370, 0403	0		30-Nov-18 A	EPA Compliance Date for Construction - Upgrade PS#0037, 0351, 0370, 0403																																	
5.17 (1) Pump Station 0037 Compliance Project																																						
Pre-Design																																						
PS20330	Negotiate Design Scope & Fee - PS#0037 Compliance Project	69	31-Jan-16 A	08-Apr-16 A	Negotiate Design Scope & Fee - PS#0037 Compliance Project																																	
Engineering Design																																						
PS35020	Site Selection - PS#0037 Compliance Project	2	23-Nov-15 A	24-Nov-15 A	Site Selection - PS#0037 Compliance Project																																	
PS35010	Preliminary Engineering/Site Assessment Report - PS#0037 Compliance Project	79	05-Oct-15 A	22-Dec-15 A	Preliminary Engineering/Site Assessment Report - PS#0037 Compliance Project																																	
PS35030	Land Acquisition - PS#0037 Compliance Project	98	24-Nov-15 A	29-Feb-16 A	Land Acquisition - PS#0037 Compliance Project																																	
PS50480	30% Design Submittal - PS#0037 Compliance Project	53	12-Apr-16 A	03-Jun-16 A	30% Design Submittal - PS#0037 Compliance Project																																	
PS50490	30% Design Review - PS#0037 Compliance Project	7	04-Jun-16 A	10-Jun-16 A	30% Design Review - PS#0037 Compliance Project																																	
PS50500	90% Design Submittal - PS#0037 Compliance Project	56	11-Jun-16 A	05-Aug-16 A	90% Design Submittal - PS#0037 Compliance Project																																	
PS12552	Engineering Design - PS#0037 Compliance Project	316	05-Oct-15 A	15-Aug-16 A	Engineering Design - PS#0037 Compliance Project																																	
PS41180	90% Design Review - PS#0037 Compliance Project	10	06-Aug-16 A	15-Aug-16 A	90% Design Review - PS#0037 Compliance Project																																	
Permitting																																						
PS41700	Site Plan Approval - PS#0037 Compliance Project	103	05-Jun-16 A	15-Sep-16 A	Site Plan Approval - PS#0037 Compliance Project																																	
PS41730	FDOT Utility Permit - PS#0037 Compliance Project	20	14-Oct-16 A	02-Nov-16 A	FDOT Utility Permit - PS#0037 Compliance Project																																	
PS41710	RER DERM Permit - PS#0037 Compliance Project	108	16-Aug-16 A	01-Dec-16 A	RER DERM Permit - PS#0037 Compliance Project																																	
PS41740	City Of Miami Public Works Permit - PS#0037 Compliance Project	51	24-Oct-16 A	13-Dec-16 A	City Of Miami Public Works Permit - PS#0037 Compliance Project																																	
PS12562	Permitting - PS#0037 Compliance Project	256	05-Jun-16 A	15-Feb-17 A	Permitting - PS#0037 Compliance Project																																	
PS41720	City Of Miami Building Dept Permit - PS#0037 Compliance Project	115	24-Oct-16 A	15-Feb-17 A	City Of Miami Building Dept Permit - PS#0037 Compliance Project																																	
Procurement																																						
PS33660	Design Documents Sent to Procurement - PS#0037 Compliance Project	0	23-Nov-16 A		Design Documents Sent to Procurement - PS#0037 Compliance Project																																	
PS33670	Submit/Approve SBD Goals and Request to Advertise - PS#0037 Compliance Project	63	23-Nov-16 A	24-Jan-17 A	Submit/Approve SBD Goals and Request to Advertise - PS#0037 Compliance Project																																	

Appendix C
CMOM Program:
Financial Analysis Program Report

MIAMI-DADE WATER AND SEWER DEPARTMENT
Consolidated Financial Projection - Wastewater Systems (\$000)
Fiscal Year Actuals Year to Date (October - September 2018) Pre-Audit
(On an accrual basis for Budget Purposes)

<i>In Thousands</i>	Oct-Sep
Wastewater System	FY 17-18
	YTD Actual
Revenues:	
Wastewater System Operating Revenues	\$388,105
Interest Income	\$5,603
Other Adjustments (net change accruals&payables)	\$0
Transferred From WASD Water Operations (<i>occurs at Year-end flow of funds</i>)	\$0
Total Revenues:	\$393,708
Expenditures:	
Wastewater System Operating & Maintenance Expenditures	(\$243,111)
Debt Service - Existing (net of Swap receipts)	(\$143,869)
Operating Revenues Transferred To Wastewater Renewal & Replacement Capital Fund	(\$55,000)
Operating Revenues Transferred To Bond Required Reserve	(\$3,758)
Transferred To WASD Water Operations	\$0
Total Expenditures Operating and Non-Operating	(\$445,738)
Net Overage/(Deficit) in Wastewater System Revenues (<i>pending transfer from water</i>)*	(\$52,030)
% Increase for Net <i>Deficit</i>	0.00%

* YTD ACTUAL Note: Transfers among water and sewer occur at year-end flow of funds entry.

Water and Wastewater Reserve Balances Projected Fiscal Year-End In Thousands

Reserve Required By Bond Ordinance Water and Wastewater	\$74,199
Water and Wastewater Rate Stabilization Fund Balance	\$30,534
Water and Sewer General Reserve Fund Beginning Balance	\$57,563
Water System Transfer to/(from) General Reserve	\$9,843
Wastewater System Transfer to/(from) General Reserve	\$0
Water and Sewer General Reserve Fund Ending Balance	\$67,406

Miami-Dade Water and Sewer Department
Statement of Revenues, Expenses and Changes in Net Position
WASTEWATER - Wastewater Funds
For 12 Months Ending September 30, 2018

Report Id: WGL011-9
Run on: 01/03/19 01:29 PM
Source: GL

	Unaudited FY 2018			FY 2017	
	Actual	Budget	Variance Fav/(Unfav)	Actual	Variance Fav/(Unfav)
OPERATING REVENUES					
Retail Water	-	-	-	-	-
Retail Wastewater	295,563,765.83	303,747,072.00	(8,183,306.17)	288,909,881.12	6,653,884.71
Wholesale Water	-	-	-	-	-
Wholesale Wastewater	78,424,565.95	73,778,000.00	4,646,565.95	88,937,827.36	(10,513,261.41)
Other Revenues	14,116,436.21	13,576,453.00	539,983.21	13,438,967.30	677,468.91
TOTAL OPERATING REVENUES	388,104,767.99	391,101,525.00	(2,996,757.01)	391,286,675.78	(3,181,907.79)
OPERATING & MAINTENANCE EXPENSES					
Water Source of Supply	-	-	-	-	-
Water Pumping	-	-	-	-	-
Water Treatment and Purification	-	-	-	-	-
Water Transmission and Distribution	-	-	-	-	-
Sewer Collection	34,048,558.62	33,277,371.11	(771,187.51)	33,456,536.42	(592,022.20)
Sewer Pumping	43,499,331.88	43,334,079.19	(165,252.69)	42,542,930.40	(956,401.48)
Sewer Treatment and Disposal	100,728,223.15	108,596,394.44	7,868,171.29	92,346,695.18	(8,381,527.97)
Customer Accounting	4,950,828.80	3,914,561.92	(1,036,266.88)	4,347,913.79	(602,915.01)
Customer Service	10,535,760.34	10,026,629.94	(509,130.40)	10,746,370.66	210,610.32
General and Administration	49,348,599.03	52,938,315.64	3,589,716.61	48,556,003.53	(792,595.50)
Fringes and Overhead	-	-	-	-	-
Stores Overhead	-	-	-	-	-
Vehicle Overhead	-	-	-	-	-
TOTAL OPERATING & MAINTENANCE EXPENSES	243,111,301.82	252,087,352.24	8,976,050.42	231,996,449.98	(11,114,851.84)
OPERATING INCOME BEFORE DEPRECIATION	144,993,466.17	139,014,172.76	5,979,293.41	159,290,225.80	(14,296,759.63)
Depreciation	124,835,710.92	125,664,000.00	828,289.08	113,778,807.55	(11,056,903.38)
OPERATING INCOME (LOSS)	20,157,755.25	13,350,172.76	6,807,582.49	45,511,418.26	(25,353,663.00)

Miami-Dade Water and Sewer Department
Statement of Revenues, Expenses and Changes in Net Position
WASTEWATER - Wastewater Funds
For 12 Months Ending September 30, 2018

Report Id: WGL011-9
Run on: 01/03/19 01:29 PM
Source: GL

	Unaudited FY 2018			FY 2017	
	Actual	Budget	Variance Fav/(Unfav)	Actual	Variance Fav/(Unfav)
NON-OPERATING REVENUE (EXPENSE)					
Customer Connection Fees	27,821,795.83	-	27,821,795.83	21,223,416.34	6,598,379.49
Other Revenue	(8,183,033.23)	-	(8,183,033.23)	2,247,425.14	(10,430,458.37)
Other Expense	-	-	-	-	-
Change in Fair Value	(4,716,174.08)	-	(4,716,174.08)	(6,818,375.02)	2,102,200.94
Interest Income	6,118,835.21	3,010,660.00	3,108,175.21	2,347,693.38	3,771,141.83
Interest Expense	(74,120,412.88)	(68,010,000.00)	(6,110,412.88)	(70,735,860.37)	(3,384,552.51)
Capitalized Interest	47,417,198.76	45,000,000.00	2,417,198.76	62,191,237.77	(14,774,039.01)
Amortization of Debt Issue	(10,652,687.11)	(4,265,164.00)	(6,387,523.11)	(5,270,616.30)	(5,382,070.81)
Operating Disaster Revenue	-	-	-	-	-
Operating Grants	-	-	-	-	-
Job Order Recovery	555,452.87	-	555,452.87	381,605.77	173,847.10
Job Order Expenses	(628,222.91)	-	(628,222.91)	(547,723.26)	(80,499.65)
Gen Fund Admin Support Fee	-	-	-	-	-
Non-Operating Transfers	-	-	-	-	-
Non-Operating Activity	-	(5,671,793.73)	5,671,793.73	-	-
Non-O&M Activity	-	-	-	-	-
TOTAL NON-OPERATING REVENUE (EXPENSE)	(16,387,247.54)	(29,936,297.73)	13,549,050.19	5,018,803.45	(21,406,050.99)
INCOME (LOSS) BEFORE CAPITAL CONTRIBUTIONS	3,770,507.71	(16,586,124.97)	20,356,632.68	50,530,221.71	(46,759,713.99)
Capital Contributions	11,434,812.71	9,000,000.00	2,434,812.71	13,476,847.23	(2,042,034.52)
INCREASE (DECREASE) IN NET POSITION	15,205,320.42	(7,586,124.97)	22,791,445.39	64,007,068.94	(48,801,748.51)

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2018**

Report Id: WFR018
Run on: 01/04/19 08:24 AM
Source: GL

	Annual Budget 2018	CURRENT MONTH		YEAR-TO-DATE				
		Actual 2018	Budget 2018	Actual 2018	Budget 2018	Actual 2017	Budget 2017	
OPERATING & MAINTENANCE EXPENSES								
100057	OM Activity - GL use only (SC)	506,172	40,068	42,215	746,178	506,172	477,145	439,854
213005	Security Guard Services (SC)	-	-	-	-	-	-	-
260004	Security Services (SC)	780,000	86,361	81,666	556,192	780,000	521,545	750,000
260110	Communications (SC)	1,240,288	26,733	104,552	368,321	1,240,288	338,962	1,221,180
260402	Damages (SC)	23,730	5,472	2,024	138,231	23,730	131,125	17,558
320005	Sewer Collection & Trans (SC)	-	-	-	-	-	(63,721)	-
350105	Construction Mgmt (SC)	-	-	-	-	-	7,046	-
360002	Sewer Collection & Trans (SC)	-	-	-	135	-	325	-
520051	Disaster Coordination (SC)	-	-	-	320	-	-	-
520101	Install. of Elect Equip (SC)	-	-	-	2,693	-	2,006	-
520521	Grounds Installs/Landscp (SC)	500	-	52	93	500	759	500
520541	Grounds Maint. Services (SC)	-	180	-	681	-	1,267	-
520601	Indoor Air Qly Insp Compl (SC)	72,000	-	7,538	2,573	72,000	-	52,000
520621	Install Mech/Hvac-Refr Eq (SC)	-	(65)	-	2,820	-	9,655	-
520751	Install. of Plumb Equip (SC)	-	-	-	6	-	215	-
520777	Maint. of Plumbing Equip (SC)	500	2,403	52	10,165	500	6,361	3,000
520871	Misc Projects/Tasks (SC)	-	3,375	-	20,629	-	-	-
520901	Carpentry (SC)	-	-	-	514	-	4,809	-
520905	Locksmith Services (SC)	-	143	-	143	-	-	-
520913	Painting (SC)	-	-	-	31	-	1,082	-
520921	Structural Misc Task (SC)	-	-	-	309	-	11,471	-
620004	Sewer Collection & Trans (SC)	-	-	-	26,248	-	59,192	65,200
630117	Sewer Collection & Trans (SC)	5,000	(23,135)	524	-	5,000	-	5,000
650002	Sewer Collection & Trans (SC)	3,137,245	81,194	317,645	1,108,602	3,137,245	689,010	309,721
711301	Sewer Meter Related Work (SC)	450,759	281,478	39,051	1,006,925	450,759	662,913	553,935
711302	Maint Swr Meter Vaults (SC)	-	5,249	-	77,907	-	72,081	-
810002	Sewer Collection Actv (SC)	-	30,921	-	(189,198)	-	4,207,457	-
811015	Telemetry/SCADA (SC)	104,125	13,154	9,425	137,934	104,125	206,725	123,400
840001	Admin. & General (SC)	3,221,708	372,403	419,496	2,694,345	3,221,708	2,429,691	3,464,261
840002	Facilities Maint (SC)	10,400	-	1,089	10,363	10,400	8,872	10,000
840101	Cleaning (SC)	3,492,623	243,617	349,816	3,175,065	3,492,623	3,606,533	3,929,052
840102	Evaluation/Review (SC)	720,377	54,254	60,489	769,856	720,377	630,252	418,071
840103	Force Main Inspection (SC)	69,885	15,942	5,868	475,083	69,885	445,478	72,886
840104	Inspection-Repair Shop (SC)	424,219	81,365	42,537	817,169	424,219	718,280	415,284
840105	Joint Grouting (SC)	1,661,234	257,631	144,314	1,873,111	1,661,234	941,363	1,611,900
840106	Lateral TV Inspection (SC)	-	117,471	-	977,132	-	440,664	-

**Miami-Dade Water and Sewer Department
GL O&M Expense Analysis by O&M Activity
As of September 30, 2018**

Report Id: WFR018
Run on: 01/04/19 08:24 AM
Source: GL

		Annual Budget 2018	CURRENT MONTH		YEAR-TO-DATE			
			Actual 2018	Budget 2018	Actual 2018	Budget 2018	Actual 2017	Budget 2017
840107	Manhole Inspections (SC)	-	(2,672)	-	180,552	-	201,141	-
840108	Manhole Sealing (SC)	26,000	34,309	2,722	1,516,004	26,000	699,588	17,200
840109	Metering-Conductivity (SC)	415,191	12,902	37,662	164,956	415,191	176,667	353,133
840110	Metering-Night Flow (SC)	166,523	41,111	13,984	482,801	166,523	437,232	172,717
840111	Metering-Pre/Post (SC)	-	-	-	-	-	51,254	-
840112	Program Inspection (SC)	3,041,170	191,477	255,370	1,677,941	3,041,170	1,531,047	2,954,780
840113	Pump Station Improv Prog (SC)	-	-	-	-	-	-	50,500
840114	Smoke Test (SC)	326,749	7,998	27,467	37,203	326,749	(16,602)	198,505
840116	Wellfield Protect Inspec. (SC)	-	-	-	62,233	-	900,218	-
840117	I/I Contract - Inspection (SC)	500,000	305,531	52,350	2,858,302	500,000	2,519,651	1,500,700
840201	Air Rel Valve Maint & Ble (SC)	1,100	(2,855)	115	236,519	1,100	205,479	-
840202	Aut Air Rel Valve Install (SC)	-	-	-	959	-	1,872	-
840203	Autom Air Rel Valve Rep (SC)	-	16,059	-	452,929	-	515,672	-
840204	Dye Tests (SC)	-	6,739	-	33,119	-	19,787	50
840205	Force Main Installation (SC)	-	-	-	26,022	-	11,241	-
840206	Force Main Repairs (SC)	762,078	25,917	75,176	425,226	762,078	605,645	1,485,102
840207	Gravity Main Installation (SC)	-	-	-	3,821	-	1,139	-
840208	Gravity Main Point Reps (SC)	7,319,203	357,072	614,468	3,049,074	7,319,203	3,446,582	6,676,913
840209	Lateral Location (SC)	-	-	-	274	-	18,043	-
840210	Lateral Point Repairs (SC)	1,854,466	634,486	282,583	2,081,846	1,854,466	1,295,033	112,003
840211	Maint./Rep-Rep Shop (SC)	310,000	19,315	32,457	129,573	310,000	148,700	243,400
840212	Manhole Installation (SC)	-	-	-	781	-	18,079	-
840213	Manhole-Repairs (SC)	-	80,912	-	2,254,414	-	1,226,154	-
840214	Restoration (SC)	-	84,861	-	783,636	-	732,135	-
840215	Sewer Lateral Inspection (SC)	-	2,319	-	2,542	-	-	-
840216	Sewer Lateral Install. (SC)	-	3,577	-	9,118	-	55,947	-
840217	System Valve Exercising (SC)	1,382,877	102,033	116,122	1,762,219	1,382,877	1,458,664	1,394,925
840218	System Valve Installation (SC)	-	6,550	-	157,457	-	133,657	-
840219	System Valve Repair (SC)	-	3,434	-	316,845	-	2,332	-
840220	I/I Contract - Maint/Repr (SC)	1,200,000	199,456	125,640	472,874	1,200,000	349,690	3,600,000
840240	Assisting Other Divisions (SC)	-	(4)	-	58,592	-	81,104	-
850129	Metering (SC)	51,250	-	5,342	149	51,250	60,820	50,250
Sewer Collection		33,277,371	3,826,741	3,269,812	34,048,559	33,277,371	33,456,536	32,272,979
100058	OM Activity - GL use only (SP)	795,487	63,053	66,344	1,162,445	795,487	748,292	691,264
212006	Sewer Pumping (SP)	-	11,042	-	124,975	-	-	-
213006	Security Guard Services (SP)	-	-	-	-	-	-	-
260005	Security Services (SP)	1,800,000	53,321	188,460	487,391	1,800,000	757,586	1,500,000

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260120	Communications (SP)	363,499	37,224	30,926	471,990	363,499	438,430	346,498
350102	Construction Mgmt (SP)	-	-	-	-	-	962	-
360001	Sewer Pumping (SP)	1,753,706	52,582	157,131	641,269	1,753,706	1,090,939	291,408
520002	Admin. & General (SP)	17,600	(11,914)	1,467	21,269	17,600	12,231	-
520102	Install. of Elect Equip (SP)	10,765	-	897	39,538	10,765	69,605	-
520301	Fueling/Recovery Deliv (SP)	7,653	9,460	745	(30,024)	7,653	46,351	7,884
520462	Fire Protection System (SP)	-	1,199	-	1,199	-	-	-
520522	Grounds Installs/Landscp (SP)	500	-	52	404	500	2,097	2,106
520542	Grounds Maint. Services (SP)	231,517	89,730	19,882	189,524	231,517	279,741	83,426
520622	Install Mech/Hvac-Refr Eq (SP)	41,000	14,532	4,293	27,269	41,000	19,107	40,000
520662	Maint. of Mech Hvac Equip (SP)	39,600	(26)	4,146	16,116	39,600	16,198	38,100
520778	Maint. of Plumbing Equip (SP)	2,000	2,474	209	12,726	2,000	19,252	4,000
520872	Misc Projects/Tasks (SP)	1,500	(244)	157	20,611	1,500	31,082	1,000
520902	Carpentry (SP)	1,000	-	105	2,779	1,000	30,918	500
520906	Locksmith Services (SP)	-	-	-	100	-	1,078	-
520910	Masonry (SP)	-	-	-	789	-	354	-
520914	Painting (SP)	-	-	-	3,504	-	20,457	-
520922	Structural Misc Task (SP)	1,500	6,555	157	43,351	1,500	101,951	2,000
630111	Tank Maintenance Work (SP)	-	-	-	-	-	7,476	-
630112	Hazardous Waste Disposal (SP)	-	15,010	-	15,010	-	1,743	-
630114	Sewer Pumping (SP)	490,900	27,797	51,397	74,380	490,900	164,900	219,600
650001	Sewer Pumping (SP)	-	-	-	23,837	-	-	234,464
810001	Sewer Pumping Activities (SP)	-	9,014	-	(32,771)	-	592,927	50
811016	Telemetering/SCADA (SP)	1,846,594	159,108	167,818	2,133,299	1,846,594	2,203,567	1,915,679
830001	Adm&Gnl (SP)	2,237,868	145,204	256,667	1,964,492	2,237,868	1,625,700	1,969,643
830002	Adm&Gnl-Admin Support (SP)	1,173,082	35,450	98,503	451,472	1,173,082	337,087	335,374
830003	Adm&Gnl-Training (SP)	19,900	639	2,084	17,096	19,900	29,666	21,460
830004	Adm&Gnl-Supv (SP)	202,650	10,093	17,450	199,543	202,650	199,573	189,668
830005	Adm&Gnl-Other (SP)	352,088	88,592	35,316	1,153,239	352,088	1,224,205	1,558,867
830101	Odor Ctrl-Maintenance (SP)	-	-	-	-	-	-	66,100
830200	Operations (SP)	-	5,101	-	77,215	-	74,887	-
830201	OP-Shutdowns (SP)	100	-	8	1,389	100	-	-
830203	OP-Supv (SP)	1,022,215	87,939	85,718	985,978	1,022,215	1,095,392	1,051,831
830204	OP-Engineering (SP)	-	-	-	228	-	-	-
830205	OP-Operations (SP)	-	9,173	-	190,474	-	103,284	-
830206	OP-Other (SP)	6,187,334	151,003	520,049	1,919,186	6,187,334	2,374,239	6,156,820
830300	Equipment (SP)	7,255,300	362,391	632,229	6,046,362	7,255,300	6,345,460	6,233,650
830301	Equip-Routine (SP)	5,111,784	247,845	433,705	3,611,311	5,111,784	3,353,500	4,942,999

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830302 Equip-Preventive (SP)	32,100	48,625	3,359	728,225	32,100	367,661	19,000
830303 Equip-Predictive (SP)	900	2,571	94	42,985	900	27,453	3,500
830304 Equip-Corrective (SP)	6,159,010	1,296,863	606,341	13,529,248	6,159,010	11,445,552	4,847,437
830305 Equip-Engineering (SP)	200	65	21	77	200	449	-
830306 Equip-Supervision (SP)	823,228	73,905	69,066	874,411	823,228	1,127,826	906,718
830307 Equip-Other (SP)	186,300	34,592	19,497	463,303	186,300	435,595	157,000
830401 GroundsRoutine (SP)	-	-	-	4,516	-	9,947	-
830404 GroundsCorrective (SP)	700	768	73	11,192	700	4,665	600
830407 GroundsOther (SP)	-	-	-	10	-	454	-
830500 Structures (SP)	148,600	3,231	15,534	20,182	148,600	17,621	162,500
830501 Struct-Routine (SP)	72,100	77,032	7,547	1,052,888	72,100	897,059	96,800
830502 Struct-Preventive (SP)	200	115	21	1,119	200	(79)	200
830503 Struct-Predictive (SP)	-	1,888	-	14,552	-	99	-
830504 Struct-Corrective (SP)	159,955	84,160	15,127	971,608	159,955	1,210,209	141,504
830505 Struct-Engineering (SP)	(127,360)	-	(10,698)	14,202	(127,360)	12	-
830506 Struct-Supervision (SP)	810,552	43,241	68,054	525,712	810,552	433,689	1,037,699
830507 Struct-Other (SP)	2,274,845	74,085	191,790	996,499	2,274,845	986,687	2,371,476
830601 RemAct/Spil-Supv (SP)	-	-	-	1,461	-	-	-
830603 RemAct/Spil-Shutdowns (SP)	-	-	-	5	-	190	-
830700 Inspection (SP)	1,100	-	115	3,570	1,100	-	100
830703 Insp-ET's (SP)	27,200	30,519	2,846	236,601	27,200	149,648	25,500
830704 Insp-Prop Pump Stations (SP)	14,500	509	1,518	38,419	14,500	24,399	3,450
830900 Emergency (SP)	100	2,883	8	3,375	100	251	-
830901 Emerg - Hurrican Preparat (SP)	-	-	-	653	-	15,647	-
830902 Emerg-Hurricane Recovery (SP)	-	-	-	3,874	-	65,863	-
830904 Emergency - Run Generator (SP)	-	-	-	1,269	-	5,312	-
830906 Emergency - OPP (SP)	-	-	-	-	-	(2,110)	100
830907 Assist other Division (SP)	-	-	-	16,214	-	(7)	-
850130 Utilities Monitoring (SP)	1,435,700	66,688	126,174	1,302,310	1,435,700	1,422,194	1,378,000
850203 Assistance to Other Div (SP)	11,050	-	941	-	11,050	-	500
850205 Emerg Actv/Emg Gen-Stby (SP)	50	-	5	-	50	-	10,050
850209 Maint/Rep-Diesel Eqp/Gens(SP)	108,208	(875)	10,968	132,728	108,208	301,571	106,825
850213 Maint/Rep-Pump Stations (SP)	226,500	13,348	21,405	355,978	226,500	174,839	175,900
850220 Maint/Rep-Struct/Grounds (SP)	50	16	5	40	50	-	50
850222 Underground Piping/Valves (SP)	1,050	-	110	64,424	1,050	-	1,050
850224 Remedial Action/Spills (SP)	100	-	10	-	100	-	100
850226 Telemetry/SCADA (SP)	-	-	-	8,003	-	-	-
850228 Odor Control (SP)	-	-	-	10,716	-	-	-

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Sewer Pumping	43,334,079	3,537,576	3,925,846	43,499,332	43,334,079	42,542,930	39,350,449
100059 OM Activity - GL use only (ST)	1,525,102	47,289	127,194	2,331,244	1,525,102	1,369,698	1,325,286
212007 Sewer Treat and Disposal (ST)	-	22,447	-	311,182	-	-	-
213007 Security Guard Services (ST)	-	-	-	-	-	-	-
221001 High Level Disinfection (ST)	-	-	-	-	-	557	-
227001 Sewer Treatment Activity (ST)	445,767	487,728	37,430	623,758	445,767	1,403,326	142,781
228001 Sewer Treatment Activity (ST)	235,431	3,127	19,769	239,359	235,431	210,244	172,865
260006 Security Services (ST)	3,500,000	264,428	366,450	2,259,451	3,500,000	3,071,596	3,200,000
350107 Construction Mgmt (ST)	-	-	-	138	-	962	-
520302 Fueling/Recovery Deliv (ST)	10,000	5,143	1,047	(49,883)	10,000	38,304	10,000
520463 Fire Protection System (ST)	-	-	-	7,304	-	7,934	5,200
520501 Grounds Contract Services (ST)	322,000	50,970	33,713	453,481	322,000	320,679	684,200
520523 Grounds Installs/Landscp (ST)	6,400	13,529	670	20,259	6,400	14,035	6,400
520543 Grounds Maint. Services (ST)	1,564,176	6,369	133,781	1,549,029	1,564,176	921,990	1,313,662
520663 Maint. of Mech Hvac Equip (ST)	1,304,022	88,217	119,078	961,771	1,304,022	1,036,326	1,601,951
520779 Maint. of Plumbing Equip (ST)	-	24	-	692	-	432	-
520873 Misc Projects/Tasks (ST)	6,459	412	538	14,124	6,459	5,449	7,067
520923 Structural Misc Task (ST)	9,000	-	942	-	9,000	-	8,500
520974 Rentals-Other Divisions (ST)	633,000	84,898	66,275	781,397	633,000	713,445	350,000
610001 Sewer Treatment Plant (ST)	-	-	-	169,190	-	-	-
620001 Sewer Treatment Plant (ST)	1,500,000	304,113	157,050	1,215,931	1,500,000	1,326,519	1,500,200
630003 Admin. & General (ST)	-	-	-	-	-	(32)	-
630102 Hazardous Waste Disposal (ST)	-	-	-	-	-	5,750	-
630119 Sewer Treatment Plant (ST)	406,730	111,034	41,358	413,501	406,730	262,833	258,000
630503 License and Permit Fees (ST)	-	-	-	-	-	(3,615)	-
740001 LabS Treat & Disp Exp (ST)	3,070,972	231,872	268,368	2,774,339	3,070,972	2,555,365	3,187,370
810003 Sewer Treatment Actv (ST)	6,750,000	33,204	706,725	394,215	6,750,000	765,177	6,600,100
811017 Telemetry/SCADA (ST)	4,439,220	195,840	389,187	2,483,143	4,439,220	2,037,030	2,976,531
811018 Main/Rep-Rad/Com Eq (ST)	89,300	1,685	9,202	60,460	89,300	22,647	313,400
811021 Instl/Rep/Cam/Surv Eq (ST)	366,350	16,759	30,728	276,929	366,350	239,034	415,575
850001 Admin. & General (ST)	26,450,010	2,681,950	2,253,952	30,515,428	26,450,010	30,418,852	27,789,622
850002 Adm&Gnl-CMMS (ST)	585,238	32,991	49,319	445,688	585,238	551,921	601,919
850003 Adm&Gnl-Supervision (ST)*	150	-	16	-	150	-	150
850004 Adm & Gnl-Permitting (ST)	2,975	1,349	311	29,110	2,975	100,701	7,375
850005 CDL Random Testing (ST)	200	-	19	-	200	-	200
850006 Training (ST)	34,377	(134)	3,576	90,112	34,377	123,443	32,300
850007 Union Activities (ST)	200	-	21	-	200	-	250

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850103	Emerg Power Generation (ST)	6,653	2,531	651	2,037	6,653	5,578	1,750
850104	Odor Control (ST)	6,612,157	887,375	672,770	8,133,194	6,612,157	4,036,363	4,310,564
850105	Effluent Pumping (ST)	-	-	-	8,798	-	-	-
850106	Pumping Stations (ST)	72,553	-	7,424	302	72,553	21,197	161,400
850109	Training (ST)	60,140	1,731	5,140	130,513	60,140	157,478	63,160
850111	Purchased Treatment (ST)	1,100	-	115	-	1,100	-	250
850112	Reuse Facility (ST)	5,683	-	480	-	5,683	-	400
850114	Sludge Cons & Diges Ops (ST)	264,791	-	22,352	2,782	264,791	39,950	922,813
850115	Dewatering (ST)	2,966,868	308,287	288,142	3,485,573	2,966,868	2,545,599	1,699,886
850116	Solids Handling (ST)	15,075,364	1,750,494	1,266,875	11,023,274	15,075,364	11,518,447	10,191,548
850117	Headworks (ST)	-	-	-	11	-	1,947	325,082
850119	Secondary Clarification (ST)	103,659	-	9,115	15,519	103,659	88,976	557,954
850120	O2 Generation (ST)	1,083,551	5,941	101,789	463,035	1,083,551	470,280	1,340,573
850121	Non Emer Power Generation (ST)	947,016	23,335	79,456	253,898	947,016	506,069	884,319
850122	Final Station (ST)	250	-	26	1,471	250	-	250
850123	Deep Well Injection (ST)	1,210,400	287,700	126,727	991,220	1,210,400	72,234	260,400
850124	Tanker Duty (ST)	538	-	45	2,687	538	15,043	-
850125	Biosolids Processing (ST)	51,450	-	5,387	111	51,450	2,194	8,950
850127	Vessel Cleaning (ST)	195,970	(6,486)	16,378	147,143	195,970	111,259	114,920
850128	Special Projects (ST)	80,933	3,900	8,186	19,305	80,933	67,209	67,850
850202	Other Maintenance (ST)	455,531	90,424	47,353	500,375	455,531	461,120	515,775
850204	Assistance to Other Div (ST)	21,533	3,178	2,135	46,453	21,533	42,530	300
850206	Emerg Actv/Emerg Gen-Stby (ST)	44,763	15,465	4,070	116,239	44,763	152,873	103,710
850208	Maint/Rep-Co-Generation(ST)	145,071	104,909	13,899	1,235,037	145,071	816,949	129,350
850210	Maint/Rep-Diesel Eqp/Gens(ST)	2,744,278	264,476	241,032	2,459,508	2,744,278	2,174,449	2,499,191
850211	Maint/Rep-Plant Equipment (ST)	16,075,216	1,234,363	1,442,106	15,161,112	16,075,216	14,198,897	15,917,020
850212	Maint/Rep-Instr/Ctrls/Mtrs(ST)	2,032,542	31,681	176,079	1,515,765	2,032,542	2,477,221	1,406,856
850214	Maint/Rep-Pump Stations (ST)	4,050	-	422	2,116	4,050	-	11,750
850215	Maint/Rep-Radio/Comm (ST)	350	-	37	-	350	-	900
850216	Maint/Rep-Cryogenic Plant (ST)	17,781	4,863	1,800	90,428	17,781	41,907	64,790
850217	Maint/Rep-Sldg Concrt/Digs(ST)	209,580	6,029	21,872	50,738	209,580	329,958	27,000
850218	Maint/Rep-Sldg Dewatering(ST)	47,133	3,956	4,778	60,101	47,133	41,546	56,722
850219	Maint/Rep-Sludge Handling (ST)	713,932	-	59,958	59,215	713,932	25,668	754,743
850221	Maint/Rep-Struct/Grounds (ST)	2,829,312	290,636	243,117	3,628,485	2,829,312	2,718,742	2,570,437
850223	Underground Piping/Valves (ST)	521,506	116,641	44,879	478,699	521,506	366,812	258,949
850225	Remedial Action/Spills (ST)	1,750	-	171	-	1,750	-	2,300
850227	Telemetry/SCADA (ST)	200	(1,070)	21	74,895	200	45,819	200
850229	Odor Control (ST)	-	-	-	-	-	-	500,000

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850230 Special Projects (ST)	735,713	337,077	62,329	2,196,837	735,713	1,271,779	851,825
Sewer Treatment and Disposal	108,596,394	10,452,680	9,793,835	100,728,223	108,596,394	92,346,695	99,094,792
TOTAL O&M EXPENSES	445,194,203	44,417,068	41,414,301	412,782,001	445,194,203	398,529,930	429,828,472
FYTD Wastewater Functions (SC, SP, ST)				178,276,114		168,346,162	
				Oct-Sep FY 2018		Oct-Sep FY 2017	

**Miami Dade Water and Sewer
Sewer Capital Expenditures by Project/Subproject
OCTOBER 2017 to SEPTEMBER, 2018**

PROJECT NUMBER	PROJECT DESCRIPTION	SUBPROJECT NUMBER	SUB PROJECT DESCRIPTION	FYTD Oct 2017 to September 2018
1002	NORTH DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	101638	NDWWTP - INJECTION WELLS PS UPGRADE	\$4,568,414.35
1002	NORTH DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	102147	NDWWTP CONSTRUCTION MANAGEMENT TRAILERS	\$0.00
1003	CENTRAL DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	102146	CDWWTP - CONSTRUCTION MANAGEMENT TRAILERS	\$0.00
1009	CENTRAL MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102200	BISCAYNE BASIN PROJECTS RELATED TO CL-1	\$112,980.88
1010	SOUTH DISTRICT WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102035	6" FM FROM PS 1071 TO MH 7 SOUTH OF SW 186 ST ON 108 AVE	\$70,923.24
1010	SOUTH DISTRICT WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102050	UPGRADE 4" FM FROM PS 733 ON US1	\$309,173.58
1011	FLOW REDUCTION PROGRAM (FRP)	100050	REHABILITATION OF SEWER MAINS DUE TO I/I - SECTIONAL LINING	\$1,415,837.05
1011	FLOW REDUCTION PROGRAM (FRP)	101865	PEAK FLOW MANAGEMENT - PUMP STATION OPTIMIZATION PLAN (PSOP)	\$135,514.93
1012	SANITARY SEWER SYSTEM IMPROVEMENTS	100055	SPECIAL CONSTRUCTION - SANITARY SEWER IMPROVEMENTS	\$0.00
1012	SANITARY SEWER SYSTEM IMPROVEMENTS	102228	DESIGN BUILD REPLACEMENT OF GRAVITY MAIN IN SHENANDOAH AREA - PHASE A	\$3,904,706.49
1012	SANITARY SEWER SYSTEM IMPROVEMENTS	102229	DESIGN BUILD REPLACEMENT OF GRAVITY MAIN IN SHENANDOAH AREA - PHASE B	\$2,642,989.20
1013	WASTEWATER GENERAL MAINTENANCE AND OFFICE FACILITIES	101506	SOUTH MAINTENANCE CENTER	\$36,169.14
1013	WASTEWATER GENERAL MAINTENANCE AND OFFICE FACILITIES	101887	MEDLEY YARD BUILDING	\$1,257,417.40
1015	PUMP STATION IMPROVEMENTS PROGRAM	101454	PUMP STATION IMPROVEMENT PROGRAM	\$23,283,910.02
1015	PUMP STATION IMPROVEMENTS PROGRAM	101975	PUMP STATION IMPROVEMENT PROGRAM (PSIP)	\$2,442.17
1019	SANITARY SEWER SYSTEM EXTENSION	100877	SANITARY SEWER SYSTEM EXTENSION	\$1,545,672.22

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1019	SANITARY SEWER SYSTEM EXTENSION	101733	SANITARY SEWER SYSTEM EXTENSION FOR JPA's	\$59,869.40
1019	SANITARY SEWER SYSTEM EXTENSION	102128	6" FM FROM PS 746 TO SW 156 ST & US1	\$82,118.71
1023	WASTEWATER TELEMETERING SYSTEM	100621	TELEMETERING SYSTEM - WASTEWATER	\$105,705.48
1024	WASTEWATER SYSTEM MAINTENANCE AND UPGRADES	100622	WASTEWATER SYSTEM UPGRADES	\$15,559,322.97
	LIFT STATION UPGRADES AND STRUCTURAL MAINTENANCE		LIFT STATION STRUCTURAL MAINTENANCE &	
1025	IMPROVEMENTS	100623	UPGRADES	\$1,072,164.49
1027	WASTEWATER EQUIPMENT AND VEHICLES	100625	MISCELLANEOUS TOOLS AND EQUIPMENT	\$888,757.17
1027	WASTEWATER EQUIPMENT AND VEHICLES	101729	VEHICLES/TRANSPORTATION EQUIPMENT	\$4,727,438.95
1027	WASTEWATER EQUIPMENT AND VEHICLES	101730	HEAVY CONSTRUCTION EQUIPMENT	\$4,388,334.87
1029	WASTEWATER TREATMENT PLANTS REPLACEMENT AND RENOVATION	100627	WASTEWATER TREATMENT PLANTS REHABILITATION	\$8,383,412.29
1029	WASTEWATER TREATMENT PLANTS REPLACEMENT AND RENOVATION	101732	SECURITY PROJECTS	\$9,863.96
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102007	NDWWTP- BZ DEEP INJECTION WELLS (NE-2)	\$166,589.79
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102010	CDWWTP- BZ DEEP INJECTION WELLS (CE-2)	\$643,731.37
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102034	LAND ACQUISITION FOR WDWTP (WDWRRF) (WT-1L)	\$2,827,385.20
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102038	CDWWTP - CENTRATE INJECTION WELL (CE-4)	\$11,494,916.25
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102096	CDWWTP PUMP STATION FOR CENTRATE WELL (CE-3)	\$16,969,173.93
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102138	OWNERS REPRESENTATIVE SERVICES FOR OOL PROGRAM AND WASTEWATER SYSTEM	\$3,684,214.05
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102150	SE-2 SDWWTP BZ DEEP MUNICIPAL INJECTION WELLS	\$253,853.61
1041	GENERAL OBLIGATION BOND (GOB)	101612	SANITARY SEWER NEEDS ASSESSMENT	\$918,081.83
1042	WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS	101967	WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS	\$3,295,496.53

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1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102502	SDWWTP - Oxygenation Trains	\$1,326,686.77
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102504	SDWWTP - Effluent Pump Station	\$1,566,627.48
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102506	SDWWTP - Digesters and Control Buildings	\$625,096.39
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102507	SDWWTP - Dewatering Facility	\$158,158.92
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102508	SDWWTP - FOG Removal Facility	\$2,336,845.31
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102510	SDWWTP - General Electrical	\$779,562.32
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102511	SDWWTP - Chlorine Contact Chamber Structural	\$1,782,200.37
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102600	CDWWTP - Electrical Improvements	\$715,300.32
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102601	CDWWTP - Building improvements	\$785,116.55
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102602	Headworks Plant 1	\$4,403,128.25
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102603	CDWWTP - Headworks Plant 2	\$3,312,800.02
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102604	CDWWTP - Oxygenation Trains Plant 1	\$1,010,181.35
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102605	CDWWTP - Oxygenation Trains Plant 2	\$962,036.23
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102608	CDWWTP - RS Pump Stations Plant 1	\$110.60
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102609	CDWWTP - RS Pump Stations Plant 2	\$667,855.93

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1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102610	CDWWTP - Effluent Pump Station	\$317,066.56
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102613	CDWWTP - Digesters Plant 1	\$177,136.23
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102614	CDWWTP - Digesters Plant 2	\$17,993,367.07
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102615	CDWWTP - Dewatering Building	\$297,007.01
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102616	CDWWTP - Chlorination Facilities	\$4,860,752.76
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102617	CDWWTP - Odor Control Systems	\$800,666.16
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102618	CDWWTP - Co-Gen Facility	\$15,179,252.28
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102620	CDWWTP - Pump Station 1	\$569,212.44
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102621	CDWWTP - Pump Station 2	\$1,003,047.72
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102623	CDWWTP - Gas Monitoring	\$154,495.88
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102624	CDWWTP -Ventilation Improvements	\$218,205.88
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102626	CDWWTP - Oxygen Production	\$489,212.24
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102628	CONSENT DECREE PROGRAM MANAGEMENT & CONSTRUCTION MANAGEMENT	\$1,751,421.85
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102700	NDWWTP - Headworks and Sludge Degritting Transfer	\$4,995,196.93
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102701	NDWWTP - Primary Clarifiers and Odor Control	\$2,874,774.41

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PROJECT NUMBER	PROJECT DESCRIPTION	SUBPROJECT NUMBER	SUB PROJECT DESCRIPTION	FYTD Oct 2017 to September 2018
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102704	NDWWTP - Secondary Clarifiers	\$927,413.75
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102705	NDWWTP - Disinfection	\$355,278.78
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102706	NDWWTP - Effluent Disposal	\$939,854.90
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102800	Collection System I/I Repairs	\$14,284,928.44
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102802	Government Cut FM - Phase 3	\$7,043,688.74
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102804	South Dade 54 inch PCCP FM Rehabilitation	\$17,549,685.69
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102807	Rehabilitation of 54 inch PCCP FM in the City of Miami	\$6,547,820.80
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102808	Replace Approximately 25 miles of AC force mains	\$2,746,297.79
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102809	Opa-Locka Airport 48" PCCP force main replacement	\$5,198,848.18
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102900	DORAL BASIN - UPGRADE SEWAGE PS No. 418	\$3,897,726.79
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102902	Upgrade of PS#0692	\$923,576.89
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102903	Replacement of Switchgear PS#0414	\$2,443,188.69
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102904	Replacement of Switchgear and Rehabilitation of Wet well PS#0415	\$3,278,927.90
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102905	Replacement of Switchgear PS#0416	\$3,080,922.90
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102906	Replacement of Switchgear and Rehabilitation of Wet well PS#0417	\$573,810.81

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PROJECT NUMBER	PROJECT DESCRIPTION	SUBPROJECT NUMBER	SUB PROJECT DESCRIPTION	FYTD Oct 2017 to September 2018
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102907	Replacement of Electrical and Mechanical Equipment in PS#0107	\$816,571.72
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102908	Replacement of Plumbing and Electrical Equipment at PS#0301	\$70,417.68
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102910	Installation of 60 inch FM from Kendall Dr to PS#0536	\$480,527.02
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102911	Replacement of Switchgear at PS#0187	\$7,885,163.36
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102914	Upgrade of PS #0065, 0201, 0334, 0374, 0607	\$1,187,247.84
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102915	Upgrade of PS #00198, 0437, 0466, 0680	\$299,355.46
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102916	Upgrade of PS #0037, 0351, 0370, 0403	\$3,003,714.75
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102917	Upgrade of PS #0441, 0491, 0710, 0827, 0852, 1236	\$542,525.93
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103000	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT - GRAVITY AND FORCE MAINS	\$465,918.55
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103001	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT - PUMP STATIONS	\$473,890.63
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103002	SUPPLEMENTAL ENVIRONMENT PROJECT (SEP)	\$825,299.22
1048	OCEAN OUTFALL LEGISLATION CAPACITY	101757	48/36/42-INCH FM FROM INTERCEPTOR TO PS 2 DISCHARGE - BISCAYNE BASIN IMPROVEMENTS (CL-1)	\$13,029,918.46
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102045	P.S. 2 BASIN UPGRADE - PHASE 1 LOCAL	\$140,718.65
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102012	SOUTHWEST DADE BOOSTER STATION (SP-1)	\$453,118.23

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PROJECT NUMBER	PROJECT DESCRIPTION	SUBPROJECT NUMBER	SUB PROJECT DESCRIPTION	FYTD Oct 2017 to September 2018
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102055	ST-1 TO SDWWTP UPGRADES TO 121 MGD ADF	\$5,818,666.35
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102056	ST-2 SDWWTP UPGRADES FROM 121 MGD TO 131 MGD ADF	\$6,763,513.15
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102078	SL-3A TO 48"/54" FM FROM SP-1 TO INTERSECTION OF SW 137th AVE/SW 136th St.	\$656,729.91
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102079	SL-2 TO 54"/60" FM FROM SP-1 TO SL-1B	\$2,289,521.23
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102158	SL-3B TO 48"/54" FM ALONG 137th AVE FROM SW 136th St TO SW 104th ST	\$838,777.52
1048	OCEAN OUTFALL LEGISLATION CAPACITY	102192	OUT OF COMPLIANCE PUMP STATIONS	\$584,462.84
1049 (PSRP)	ESTABLISHED A PUMP STATION RESILIENCE PROGRAM	101710	MASTER PUMP STATION NO. 3 (FORMERLY P.S. 8)	\$343,070.47
1049 (PSRP)	ESTABLISHED A PUMP STATION RESILIENCE PROGRAM	100984	REFURBISH STRUCTURES IN PUMP STATIONS	\$0.00
Total Sewer FYTD from October 2017 to September 2018				\$303,690,203.77