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VIA ELECTRONIC CORRESPONDENCE

July 30, 2020

CCN: 63329
File No: 8.DC.20.33

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Environment and Natural Resources Division
U.S. Department of Justice
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Southeast District – West Palm Beach
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Attn: Compliance/Enforcement Section
Jason.Andreotta@dep.state.fl.us

**RE: Consent Decree (Case: No. 1:12-cv-24400-FAM),
Reference DOJ Case No. 90-5-1-1-4022/1,
Section IX – Reporting Requirements, Paragraph 33 – Semi-Annual Reports – 2020
Semi-Annual Report No. 1**

Dear Sir/Madam:

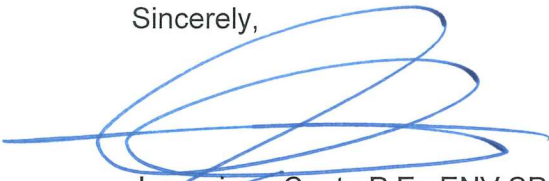
In accordance with the provisions of Paragraph 33 of the above referenced Consent Decree, on behalf of Miami-Dade County, the Water and Sewer Department (WASD) submits to both the United States Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) the 2020 Semi-Annual Report No. 1. The report includes the progress made in implementing the requirements of the aforementioned Consent Decree during the period of time from January 20, 2020 through June 30, 2020. The report also includes the anticipated work to be completed over the next two calendar quarters through December 31, 2020.

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,



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

Attachment: 2020 Semi-Annual Report No. 1

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2020 Semi-Annual Report No. 1 (Twelveth Semi-Annual Report)

January 1, 2020 through June 30, 2020

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
COVID-19	Novel Coronavirus Disease 2019
DOJ	Department of Justice
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FM	Force Main
FMOPMARP	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 Wastewater 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 Wastewater Treatment Plant
SEP	Supplemental Environmental Project
SORP	Sewer Overflow Response Plan
SSAMP	Sewer System Asset Management Program
SSO	Sanitary Sewer Overflow

Acronyms and Abbreviations (continued)

VFD	Variable Frequency Drive
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 (2) calendar quarters (January 1, 2020 through June 30, 2020), and also provides projections for significant projects and activities anticipated to be completed in the next two (2) calendar quarters (July 1, 2020 through December 31, 2020).

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 (2) calendar quarters, with the exception of submitting the Third Annual FOG Control Program Review Report and meeting the final deadlines for two (2) Appendix D Capital Improvement Projects (CIP): 1) CD CIP 2.19 – Co-Gen Facility at Central District Wastewater Treatment Plant (CDWWTP) (May 21, 2020) and 2) CD CIP 5.3 – Upgrade of Pump Station No. 0692 (June 17, 2020).

On June 25, 2020, the County electronically notified the EPA that the preparation of the Third Annual FOG Control Program Review Report was impacted by the Novel Coronavirus Disease 2019 (COVID-19) impacts. The County submitted a Delay Notification to EPA and FDEP on July 22, 2020. The County anticipates submitting the Third Annual FOG Control Program Review Report by September 30, 2020.

In accordance with Section IX, Paragraph 52 of the CD, on January 10, 2020, the County notified EPA/FDEP of a Delay Notification for CD CIP 2.19 – Co-Gen Facility because there is insufficient biogas available to conduct the testing and commissioning of the biogas treatment system installed. The biogas availability is contingent on the completion of the rehabilitation on the CD CIP 2.15(1) - Digester Plant 2 Cluster 1 project at the Central District WWTP. On May 21, 2020, the County provided a Project Status Update and Failure to Meet the Compliance Date

Notification for CD CIP 2.19 to EPA and FDEP. The compliance date for this project was May 21, 2020 and the County anticipates being able to complete the testing of the biogas treatment system in the Fall of 2021.

In accordance with Section IX, Paragraph 52 of the CD, on May 5, 2020, the County notified EPA/FDEP of the Force Majeure Delay Notification for CD CIP 5.3 – Upgrade of PS 0692 due to delays occurring in the execution of this project during the construction phase including Force Majeure Novel Coronavirus Disease 2019 (COVID-19) Pandemic impacts. On June 16, 2020, the County notified EPA/FDEP of the Failure to Meet Compliance Date for CD CIP 5.3 and provided an anticipated completion date of December 31, 2020. The compliance date for this project was June 17, 2020.

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. 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, forty-two (42) projects with a total cost of \$459 million have reached substantial completion and thirty-six (36) projects with an approximate total cost of \$1.34 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 (page 3). The upcoming projects, activities, milestones, and deliverables for the next two (2) calendar quarters are listed in Table 1-2 (page 5). 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 (1) 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 Delay Notification Letter for CD CIP 2.19 Co-Gen Facility	Section XI, para. 52 & Section XVII, para. 77	1/10/2020	1/10/2020	Yes
Post Delay Notification Letter for CD CIP 2.19 Co-Gen Facility in PDR	Section V, para. 9	1 business day after submittal	1/10/2020	Yes
Submit Payment of FDEP demand for Stipulated Penalties (2017 & 2018) Letter	Section X, para. 42(a) and Order Modifying Section X	Within 30 days of receipt (2/13/2020)	1/16/2020	Yes
Post Payment of FDEP demand for Stipulated Penalties (2017 & 2018) Letter in PDR	Section V, para. 9	1 business day after submittal	1/16/2020	Yes
Submit 2019 Quarterly Report No. 4	Section IX, para. 32	1/31/2020	1/31/2020	Yes
Post 2019 Quarterly Report No. 4 in PDR	Section IX, para. 36	1 business day after submittal	1/31/2020	Yes
Submit 2019 Semi-Annual Report No. 2	Section IX, para. 33	1/31/2020	1/31/2020	Yes

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)
Post 2019 Semi-Annual Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	1/31/2020	Yes
Submit 2019 Annual Report	Section IX, para. 34	3/2/2020	3/2/2020	Yes
Post 2019 Annual Report in PDR	Section IX, para. 36	1 business day after submittal	3/2/2020	Yes
Submit Notification of Completion for CD 2.2 – Building Improvements at CD WWTP	Section XI, para. 52 & Section XVII, para. 77	3/5/2020	3/5/2020 (Submittal Date)	Yes
Post Notification of Completion for CD 2.2 – Building Improvements at CD WWTP in PDR	Section VI, para. 19(i)	1 business day after submittal	3/5/2020	Yes
Submit 30-Day Extension for Payment of FDEP Demand for SSO Stipulated Penalties (2019) Letter	Section XI, para. 52 & Section XVII, para. 77	3/12/2020	3/12/2020	Yes
Post 30-Day Extension for Payment of FDEP Demand for SSO Stipulated Penalties (2019) Letter in PDR	Section V, para. 9	1 business day after submittal	3/12/2020	Yes
Submit Force Majeure Notification due to COVID-19 Impacts Letter	Section XI, para. 52 & Section XVII, para. 77	4/3/2020	4/3/2020	Yes
Post Force Majeure Notification due to COVID-19 Impacts in PDR	Section V, para. 9	1 business day after submittal	4/3/2020	Yes
Submit Project Status Update Letter for CD 2.22 – Pump Station No. 2 at CD WWTP	Section XI, para. 52 & Section XVII, para. 77	4/24/2020	4/24/2020 (Submittal Date)	Yes
Post Project Status Update Letter for CD 2.22 – Pump Station No. 2 at CD WWTP in PDR	Section V, para. 9	1 business day after submittal	4/24/2020	Yes
Submit 2020 Quarterly Report No. 1	Section IX, para. 32	4/30/2020	4/30/2020	Yes
Post 2020 Quarterly Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	4/30/2020	Yes

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)
Submit Force Majeure Delay Notification Letter for CD CIP 5.3 – PS 0692	Section VI, para. 19(i)	5/5/2020	5/5/2020	Yes
Post Force Majeure Delay Notification Letter for CD CIP 5.3 – PS 0692 in PDR	Section V, para. 9	1 business day after submittal	5/5/2020	Yes
Submit Force Majeure Delay Notification Letter for CD CIP 3.6 – Disinfection at NDWWTP	Section VI, para. 19(i)	5/5/2020	5/5/2020	Yes
Post Force Majeure Delay Notification Letter for CD CIP 3.6 – Disinfection at NDWWTP	Section V, para. 9	1 business day after submittal	5/5/2020	Yes
Submit Failure to Meet Compliance Date and Project Status Update Notification Letter for CD CIP 2.19 Co-Gen Facility	Section XI, para. 52 & Section XVII, para. 77	5/21/2020 (Project Compliance Date)	5/21/2020 (Submittal Date)	Yes
Post Failure to Meet Compliance Date and Project Status Update Notification Letter for CD CIP 2.19 Co-Gen Facility in PDR	Section V, para. 9	1 business day after submittal	5/21/2020	Yes
Submit Failure to Meet Compliance Date and Project Status Update Notification Letter for CD 5.3 CIP – Upgrade of PS 0692	Section XI, para. 52 & Section XVII, para. 77	6/17/2020 (Project Compliance Date)	6/16/2020 (Submittal Date)	Yes
Post Meet Compliance Date and Project Status Update Notification Letter for CD CIP 5.3 – Upgrade of PS 0692 in PDR	Section V, para. 9	1 business day after submittal	6/16/2020	Yes
Completion of CD CIP 2.2 – Building Improvements at CDWWTP	Section IX, para. 19(i)	9/26/2019	1/17/2020	No
Completion of CD CIP 2.19 – Co Gen Facility	Section IX, para. 19(i)	5/21/2020	Fall 2021	No
Completion of CD CIP 5.3 – Upgrade of PS 0692	Section IX, para. 19(i)	6/17/2020	12/31/20	No

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
Submit Third Annual FOG Control Program Review Report	Section VI, para. 19(a)	6/30/2020	9/30/2020
Post Third Annual FOG Control Program Review Report in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2020 Quarterly Report No. 2	Section IX, para. 32	7/30/2020	7/30/2020
Post 2020 Quarterly Report No. 2 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2020 Semi-Annual Report No. 1	Section IX, para. 33	7/30/2020	7/30/2020
Post 2020 Semi-Annual Report No. 1 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
Submit 2020 Quarterly Report No. 3	Section IX, para. 32	10/30/2020	10/30/2020
Post 2020 Quarterly Report No. 3 in PDR	Section IX, para. 36	1 business day after submittal	1 business day after submittal
CD CIP 2.19 Co-Gen Improvements at CDWWTP	Section VI, para. 19(i)	5/21/2020	Fall 2021
CD CIP 2.22 Pump Station No.2 at CDWWTP	Section VI, para. 19(i)	4/25/2019	12/31/2020
CD CIP 3.6 Disinfection at NDWWTP	Section VI, para. 19(i)	9/9/2020	11/25/2020
CD CIP 4.9 Replace approximately 25 miles of Asbestos Cement Force Main	Section VI, para. 19(i)	10/17/2020	10/17/2020
CD CIP 5.3 Upgrade of PS 0692	Section VI, para. 19(i)	6/17/2020	12/31/2020
CD CIP 5.7 Replacement of Switchgear and Rehabilitation of Wetwell at PS 0417	Section VI, para. 19(i)	7/25/2020	7/1/2020

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	7/20/2017	At the July 20, 2017 EPA/FDEP/WASD CD Program Update Meeting, WASD proposed a scope modification for CD 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 CD 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. On October 16, 2019, the County re-distributed the scope modification for CD CIP 5.9 letter as requested by EPA. This item is pending final decision.
2	2/13/2018	<p>On February 13, 2018, the County advised EPA, FDEP and Department of Justice (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>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.</p> <p>On August 1, 2019, the County electronically notified the EPA/FDEP that the PDR was unavailable to the public for an estimated 4 days due to a server failure. The new cloud-based PDR system was put into production on July 31, 2019 and by August 1, 2019 most of the library was restored. On October 4, 2019, the County submitted a letter detailing the timeline of the breach in PDR compliance.</p>
3	4/19/2018	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 (1) 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.”	EPA stated there may be a need to change that language in the CD and that the matter would be discussed with the DOJ. On December 19, 2019, the County provided SEP CD Language to EPA that is under consideration by DOJ. This item is pending final decision.

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
4	4/19/2018	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 CIP 2.15 will provide full digestion treatment capacity required for CDWWTP and no improvement for CD CIP 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.	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.
5	12/19/2019	EPA/FDEP to prioritize the review of the CMOM Program Implementation Schedule.	At the December 19, 2019 CD Program Update Meeting, WASD requested an update on the status of the approval for CMOM Program Implementation Schedule submitted on August 6, 2018. Brad Ammons (EPA) committed to prioritize the review of the CMOM Program Implementation Schedule.
6	2/20/2020	WASD to resend Response to FDEP's comments on the BODR for Thickening and Dewatering Project (CD CIP 1.6, 1.8, 2.12 2.13, 2.16 and 2.18(2))	In the February 2020, WASD required an update on the status of the FDEP's review and approval of the BODR for Thickening and Dewatering Project (CD CIP 1.6, 1.8, 2.12 2.13, 2.16 and 2.18(2)). FDEP requested that the Response to FDEP's comments be resent to facilitate their review. On February 20, 2020, WASD resent the October 2019 communication to FDEP. On March 5, 2020, FDEP issued a conditional approval.
7	2/20/2020	EPA/FDEP to consider WASD's request to discontinue the Semi-Annual Reporting as per CD Sect. IX Para. 33	In the February 2020 CD Program Update Meeting, WASD requested EPA and FDEP consider discontinuing the Semi-Annual Reporting as per CD Section IX, Paragraph 33: "Six year from the Effective Date of the CD and each subsequent year until termination, the United States, FDEP and Miami-Dade agree to consider whether to discontinue the Semi-Annual Reports." At the April 2020 CD Program Update Meeting, FDEP stated that they had no objection in discontinuing the Semi-Annual Reports. At the June 2020 CD Program Update Meeting, the County advised EPA/FDEP that this request was placed on hold for the time being.

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
8	4/16/2020	RER-DERM to provide EPA/FDEP with the Project Certifications for CD CIP 5.01 – PS 0418 and CD CIP 5.05 – PS 0415	At the April 2020 CD Program Update Meeting, FDEP requested that RER-DERM provide EPA/FDEP with the Project Certifications for CD CIP 5.01 – PS 0418 and CD 5.05 – PS 0415. On April 16, 2020, RER-DERM provided the requested Certifications.
9	4/16/2020	Discussion on Force Majeure impacts of COVID-19. The County to collect supporting documentation related to any COVID-19 Force Majeure Claim.	At the April 2020 CD Program Update Meeting, the County provided a summary of the impacts of COVID-19 on Consent Decree CIPs in construction, permitting and procurement phases. FDEP and EPA reiterated that supporting documentation will be needed to evaluate any COVID-19 Force Majeure Claim for delays.

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. The County 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 the 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 (6) years from the Effective Date of the Consent Decree and each subsequent year until termination, the United States, FDEP, and the County 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 (2) 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 (2) Calendar Quarters and the next two (2) 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 (2) Calendar Quarters and the next two (2) 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 National Pollutant Discharge Elimination System (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 (2) Calendar Quarters and the next two (2) 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 Wastewater Collection and Transmission Lines (WCTL) 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 construction of the SEP reached completion on December 26, 2018, ahead of the CD Compliance deadline of November 18, 2019. The County installed 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.

The SEP Completion Report was submitted on the CD Compliance deadline of December 18, 2019. The EPA/FDEP review and approval of the SEP Completion Report is pending. Some of the properties required to connect were able to establish sewer connections. At this time, RER-DERM advised that enforcement actions have been hindered by COVID-19 for SEP property owners with overdue Notice of Required Connection.

4.0 Additional Information

According to Paragraph 33(d), this report shall include "any additional information the County 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 primary approach to reduce outfall use is to install new injection wells at North and Central District Wastewater Treatment Plants (WWTPs).

The EPA, FDEP, and Miami-Dade County acknowledged that the County's implementation of the OOL may impact the scope of scheduling certain CIPs 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.

- At the CDWWTP work has started on drilling seven (7) new Class I municipal injection wells and is progressing ahead of schedule. Two (2) more wells are under a design contract and will be installed in the future for a total of nine (9) municipal wells. The design consultant is at the approximate seventy-five (75) percent design level for the municipal injection wells pump station and associated piping. This portion of the work is in the permitting review stage. WASD received approval to use a new industrial well system from the Underground Injection Control (UIC) section at FDEP and the new system started operation full time in the spring (2 wells). The site plan conceptual design improvements are finished, and coordination with the other designs is underway.
- The conceptual design of the NDWWTP improvements are complete. The designer for high-level disinfection and injection well pump station was started on May 2020. The design contracts for the site preparation and electrical buildings are pending approval. The municipal wells at NDWWTP are designed (100 percent completed), and a UIC construction permit has been received from FDEP. There is substantial permitting required for the site development which is underway. The early works will include installing injection wells on the upland portion of the site, while the wetland and stormwater management permits are being obtained. The COVID-19 related shut-down has delayed USACE's field review. The upland work is being permitted by the City of North Miami. The existing four (4) injection wells are functioning near maximum capacity after a series of capital improvements were completed in 2019 and one (1) well was re-rated in the spring to a higher peak flow rate. Substantial diversions from the outfall is being achieved (60 to 70 percent of daily flow).

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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) 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 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 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.
			3.1 Initiated coordination with IT to automatically generate Notification Letters to all Utilities and Private systems when they fail to submit ETs.	3.1. Continue Coordination with IT and Code Enforcement group in order to automate enforcement when utilities fail to submit Data on time.
			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.
			4.1 Initiated coordination with IT to automatically generate Notification Letters to all Utilities and Private systems when report TRIPLICATE ET readings.	4.1 Coordinate with IT and Code Enforcement group in order to automate enforcement when utilities fail to submit Data on time.
			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 in the WEB, by using the PS Estimator WEB Application.	5. Continue generating the monthly NAPOT Status & Sewer Allocation reports to Utilities and Building Officials for submittal to WASD for storing in Database repository for DEP access. The report provides the updated Moratorium status for each PS basin within the Utility service areas.
			6. Sewer Allocations were de-allocated manually for municipalities according to their monthly reports as submitted to RER-DERM. 6.1 Completed automatic de-allocations of reserved flows for projects that are 10 yrs. or more in the system.	6. Continue manually de-Allocations for all municipalities according to their completed monthly reports submitted to RER-DERM. 6.1 Continue coordination with IT Department to create a WEB Application to allow Building Officials to report on-line the monthly De-Allocation report.

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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) 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.	7. Due the COVID-19 the Quarterly Utility Round Table (URT) Meetings scheduled for April-2020 was not held. The utilities were notified that the next URT meeting (Virtual) was to be held in July-2020	7. Will hold two (2) Virtual 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 requiring/notifying all Utilities that propose or upgrade PS with 26 HP pumps, or larger, to submit ET readings for ALL-PUMPS ON and Midnight-to 5 am hours.
			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 Sewer System Evaluations Systems (SSES) reports 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.
			9.1 Initiated the update of the 3rd Cycle SSES Requirements / Guidelines due by 11/12/2022 for distribution to all utilities	9.1 Complete the update of the 3rd Cycle SSES Requirements / Guidelines due by 11/12/2022 for distribution to all utilities
			10. Completed the reviews of Water & Sewer As-Built / Atlas from the Utilities. In last URT meeting the Utilities were notified that a more detailed review of the submittals was to be performed. However, due to COVID-19 reviews were placed on hold.	10. Continue the review the GIS Water & Sewer As-Built / Atlases submitted by each Utility in January-2020 to assure compliance with Code requirements. Atlases are used by staff to determine Adequate Pumping, Transmission and Treatment capacity. A formal notification to the utilities will be sent.
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.			

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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) 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.	12. Initiated Electronic reviews for construction permits pertaining to new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's Miami-Dade Water and Sewer Department (WASD).	12. Continue electronic reviews for new construction permits or upgrades of Domestic Wastewater Collection and transmission systems for ALL utilities in the County.
			12.1 Due to COVID-19, electronic reviews for all other municipal utilities than WASD was established. All reviews for new or upgrades of Domestic Wastewater Collection and transmission systems were done electronically since the County started "work from home" program in April-2020.	
			13. Established and implemented a CONCURRENT review process for new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's Miami-Dade Water and Sewer Department (WASD).	13. Continue with CONCURRENCY reviews for new or upgrades of Domestic Wastewater Collection and transmission systems under the jurisdiction of the County's Miami-Dade Water and Sewer Department (WASD).
			14. Initiated coordination with IT to create a WEB Application to allow Building Officials to report the monthly De-Allocation report.	14. Continue coordination 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 December 31, 2020.

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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) 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 PSIP projects, CD projects, and CIP projects on operating conditions of the WASD WCTS. Updates were completed for the following projects: PSIP model updates were completed for the following pump stations: PS1008, PS0860, PS0456, PS0560, PS0742 and PS0173. The following new pump stations were added to the model along with pertinent force main network and inflow hydrographs as part of the CIP updates: PS1125, PS1308, PS1327, PS1258, PS1259.</p> <p>In addition, 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. The updates include:</p>	<p>Continue to support 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.</p> <p>-As part of this effort WCTS effective model inflows were updated based on WASD's 2019 Water Billing Data -The 2019 inflow hydrographs will be further updated with SCADA data from different volume sewer customers.</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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) 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>-Deletion of private pump stations PPS00542 and PPS00403 from force main network and adding inflows to PS0819 basin. -Addition of private pump stations PPS69361 and PPS60092. -Updates to point of connection for PS0464 -Updates to force main network in basin PS0125, PS0126, and PS0733. -Updates to location of Hialeah pump stations HIA.PS.200</p> <p>The CD PMCM team delivered an updated version of the WASD WCTS effective model to WASD Planning division, which incorporated all the changes listed above. -Pump Station Dashboard that provides a detailed summary/overview of the pump station results for existing scenario annual average daily flow condition was delivered along with the effective model. -The model inflow hydrographs were updated with 2019 SCADA data.</p> <p>This effort constitutes the compliance with Section VI, Paragraph (18).(c).(iv) of the Consent Decree.</p>	<p>Continue efforts to update hydraulic model with information available for improvement projects associated with Consent Decree, 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, 2035, and 2040 in the WASD hydraulic model.</p> <p>This effort constitutes the compliance with Section VI, Paragraph (18).(c).(iv) of the Consent Decree.</p>
18(d)	Spare Parts Program	<p>The Spare Parts Program is being implemented in accordance with Paragraph 18(d) of the CD. This program is a continuing inventory management program for spare parts for the WCTS and WWTPs.</p>	<p>Work on the program has been ongoing.</p>	<p>The existing program will be enhanced as the new CMOM Programs are implemented. Work on the program is ongoing and will continue beyond June 30, 2020.</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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) Quarters
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.	1. Monitored and tracked the monthly submittal of the Elapsed Time (ET) readings by each Volume Sewer Customer utility.	1. Continue Monitoring and tracking of the monthly submittal of the Elapsed Time (ET) readings by each Volume Sewer Customer utility.
			2. Placed under Moratorium Pump Stations (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).	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).
			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.	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.
			3.1 Initiated coordination with IT to automatically generate Notification Letters to all Utilities and Private systems when they fail to submit ETs.	3.1. Continue coordination with IT and Code Enforcement group in order to automate enforcement when volume sewer utilities fail to submit Data on time.
			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.	4. Continue updating Moratorium status of PS basins under the jurisdiction of the Volume Sewer Customer utilities for which the utilities complete and certify the Corrective Action Plan(s) (CAP) to bring basin's Nominal Average Pump Operating Time (NAPOT) below the 10 hours.
			5. Created the Volume Sewer Customer Utilities monthly Nominal Average Pump Operating Time (NAPOT) Status Report. Moratoriums were updated accordingly.	5. Continue to generate the Volume Sewer Customer monthly Certification of Nominal Average Pump Operating Time (NAPOT) Status report.
			6. Continued to use the PS system/database to track PS basin Moratoriums related to SSOs.	6. Continue to use the PS system/database to track PS basin Moratoriums related to SSOs.
			7. Issued enforcement letters or RFIs for SSO events reported or documented by DERM personnel, as needed. 7.1 Placed Moratoriums on basins that experienced multiple SSOs, in order to minimize or prevent additional SSOs.	7. Continue to issue enforcement letters or Requests for Information (RFIs) for SSO events reported or documented by DERM personnel, as needed. 7.1 Implement Moratoriums as needed to minimize or prevent additional SSOs.

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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) 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.	<p>8. Continued to review the Volume Sewer Customer's Sanitary Sewer System Evaluations (SSES), or Amendments, submitted by the Volume Sewer Customer utilities.</p> <p>Moratoriums status were reverted as the utilities demonstrated compliance with the SSES, Code requirement of 5,000 GPDIM.</p>	<p>8. Continue to review the Volume Sewer Customer's Sanitary Sewer System Evaluations (SSES), or Amendments, as submitted.</p> <p>PS moratoriums will be reverted if the utilities demonstrate compliance with the 5,000 GPDIM SSES Code requirement or the moratorium status remains if the utility does demonstrate compliance.</p>
			<p>9. Followed-up on the enforcement action against utilities that reported SSOs during this period. Moratoriums were placed on repeat SSO to prevent future discharges subject to the utility implementation of corrective actions.</p>	<p>9. Continue enforcement action against any utility that experiences repeat SSOs and implement monitoring and/or inspections, as needed, with the intend to prevent or minimize SSOs. Moratoriums will be placed in cases of repeat SSOs pending the submittal of corrective actions by the utility,</p>
			<p>10. Continued closed coordination with City of Opa-Locka management regarding the Consent Agreement (CA) completed and signed by the City officials for repeat SSOs during previous periods. The CA outlined actions to prevent SSOs and to complete needed rehabilitation to bring the sanitary sewer collection/transmission system into full compliance.</p>	<p>10. Continue coordination with the DERM Enforcement Group to assure the Volume Sewer Customer Utility of Opa-Locka complies with the CA specific requirements and deadlines to bring the utility into full compliance.</p>
			<p>11. No additional monitoring of the WCTS of Opa-Locka to assure system is operating under normal conditions was needed for this reporting period.</p>	<p>11. If needed, re-establish a close monitoring of the WCTS of Opa-Locka to assure system is operating under normal conditions.</p>
			<p>12. Due to COVID-19 no meetings were held with the Utility/Municipal Officials during this period.</p>	<p>12. As needed, schedule additional meetings with the Utility/Municipal officials.</p>
			<p>13. Implemented automatic De-Allocations of reserve flows that have been in the database for 10 years or more. This process provided additional flow capacity for new/future developments.</p>	<p>13. Continue to De-Allocate reserved flows that have been in the database for 10 years or more. This process provided additional flow capacity for new/future developments.</p>
			<p>14. All Volume Sewer Customer utilities and/or representatives were invited to the Virtual URT Meeting on July-2020</p>	<p>14. Continue to use the Virtual URT meeting to share with all Volume Sewer Customer utilities about Code Requirements, Compliance status, and ways to improve efficiency in all programs involving.</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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar (2) 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.	15. Reviewed Annual and Semi-annual reports submitted by the Volume Sewer Customer Utilities, which include Illicit Stormwater Connections, SSES and CMOM work related reports.	15. Review the Annual and semi-annual reports as submitted by the Volume Sewer Customer Utilities, for Illicit Stormwater Connections, SSES and CMOM work related reports.
			16. Compiled notes from the reviews completed of all Volume Sewer Customer Utilities about the GIS Water & Sewer As-Built / Atlases submitted.	16. Continue reviews of the GIS Water & Sewer As-Built / Atlases submitted by each Volume Sewer Customer Utility in January-2020 to assure compliance with Code requirements.
			17. Completed an inspection program of all public sanitary sewer pump stations in the County. The inspections included coordination with all utilities when requested to respond to issues encountered during the inspections.	17. Plan next inspection program of all public sanitary sewer pump stations.
				18. Complete review of the Sanitary Sewer System Model Survey/Report received from each Volume Sewer Customer Utilities. Enforcement actions to be implemented accordingly.
	19. Complete the review of televising reports received from the utilities having sanitary sewer collection and transmission systems within well field protection areas.			

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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 Outreach flyers. Flyers will be distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters.
			3. Continued FOG Outreach, including workshops (e.g., West Coast Inspectors Workshop, and FOG 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. Assigned FOG Inspectors to run eManifest Reports and schedule inspections based on findings.	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, and included training requirements.	5. Review FSE FOG Operating Permit (GDOs) conditions and update accordingly.
			6. Continued enforcement (and compliance assistance) with NGTs Food Service Establishments (FSE). Completed 93.9%.	6. Continue enforcement (and compliance assistance) with NGTs Food Service Establishments (FSE). Goal to achieve 100% compliance by June 2019 has been delayed. Facilities that remain out of compliance (6.1%) continue to be under enforcement.
			7. Discussed potential updates to the Liquid Waste Transporter (LWT) permit conditions.	7. Review LWT Permit conditions and update accordingly.
			8. Monitored "NO COMMINGLING of FOG" (implemented April 1, 2017) at the South District Wastewater Treatment Plant. Inspections include 1 day per week and one Saturday per month. These were performed up to March when because of COVID-19 they needed to be put on hold	8. Restart performing monitoring "NO COMMINGLING of FOG" and taking enforcement actions to correct violations, as applicable. Restart performing inspections at the South District Wastewater Treatment Plant. Inspections will include 1 day per week and one Saturday per month. All of this depending on COVID-19.
			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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
19(a)	Fats, Oils and Grease Control Program (Continued)	<p>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.</p>	<p>10. Continued to perform and track FOG Construction Inspections, and to document inspection results to improve FOG Plan Review procedures.</p> <p>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.</p> <p>12. Continued to work with equipment manufacturers to get FOG Control Devices approved for FOG2.0.</p> <p>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. Updated training requirements for disposal facilities.</p> <p>14. Continued to track/record Key Performance Indicators and Performance Measures to evaluate and improve the FOG Control Program, to be used for the 3rd FOG Control Program Annual Review Report.</p> <p>15. Developed or approved training programs for 2020 permitting cycle for LWTs and Disposal Facilities. Pending implementation by WASD.</p> <p>16. Continued the Public Outreach program in collaboration with MDC-WASD. Some events scheduled for the last two quarters were cancelled because of COVID-19.</p> <p>17. Contacted local business improvement districts (BIDs) to improve the outreach for businesses.</p>	<p>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.</p> <p>11. Continue to track FOG Hot Spots and identify sources(s) and root cause(s). Take enforcement as required to remedy FOG Hot Spots. Complaints will be reviewed and prioritized for inspections accordingly.</p> <p>12. Continue to work with equipment manufacturers to get FOG Control Devices approved for FOG2.0.</p> <p>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.</p> <p>14. Continue to track/record Key Performance Indicators and Performance Measures to evaluate and improve the FOG Control Program, to be used for the 4th FOG Control Program Annual Review Report.</p> <p>15. Continue developing or approving training programs for 2020 permitting cycle for LWTs and Disposal Facilities.</p> <p>16. Continue preparing and implementing Public Outreach program outline and schedule in collaboration with MDC-WASD. Implementation of the Residential Outreach program due by March 5, 2020 has been impacted by COVID-19. Its implementation might still be delayed by COVID-19.</p> <p>17. Coordinate meetings with local business improvement districts (BIDs) to improve the outreach for businesses.</p>

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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.	18. Continued working in collaboration with municipalities to reduce FOG impact in the Collection system, including sharing information and resources. Specifically City of Miami Beach, Town of Medley and Coral Gables.	18. Continue working in collaboration with municipalities to reduce FOG impact in the Collection system, including sharing information and resources. Specifically City of Miami Beach, Town of Medley and Coral Gables.
			19. Continued quarterly coordination meetings with the disposal facility (WASD) for the Liquid Waste Transporters program.	19. Continue quarterly coordination meetings with the disposal facility (WASD) for the Liquid Waste Transporters program.
			20. Continued enforcement (and compliance assistance) with FSEs to procure compliance with the current regulations. This includes unpermitted facilities, as well as existing facilities with FOG discharges over the minimum allowed, or not complying with operating permit conditions.	20. Continue enforcement (and compliance assistance) with FSEs to procure compliance with the current regulations. This includes unpermitted facilities, as well as existing facilities with FOG discharges over the minimum allowed, or not complying with operating permit conditions.
			21. Planned to implement annual routine inspections to the current 7,434 GDO permitted facilities.	21. Plan to implement annual routine inspections to the current 7,434 GDO permitted facilities, pending approval of additional staff.
			22. Collected data for Hot Spots from utilities and continued to perform complaints inspections. Because of COVID-19 these inspections are on hold.	22. Begin Hot Spot inspections and continue complaints inspections. Estimated as 336 inspections per year, pending approval of additional staff. Pending also on COVID-19.
			23. Planned to implement inspections to residential areas identified by the Utilities as potential sources of FOG blockages.	23. Implement inspections to residential areas identified by the Utilities as potential sources of FOG blockages, pending approval of additional staff.
				24. Begin confirmation inspections to facilities reported as closed. Estimated that 50% of the total 3,766 facilities are expected to be inspected by 2021, pending approval of additional staff. Also it will depend on COVID-19.
			25. Continued reviewing OL/CU/LBTR applications for FSEs. To assure compliance with FOG Control Program regulations.	25. Continue reviewing OL/CU/LBTR applications for FSEs. To assure compliance with FOG Control Program regulations.
			26. Continued reviewing construction plans for FSEs, to assure compliance with current regulations codified under 24-42.6(8) and (9).	26. Continue reviewing construction plans for FSEs, to assure compliance with current regulations codified under 24-42.6(8) and (9).
27. FOG Accelerated Maintenance Application was completed and implemented. However, it was found after implementation that updates were needed.	27. Complete update and re-implementation of FOG Accelerated Maintenance Application.			

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
19(a)	FOG Control Program (Continued)		28. Performed inspections in response to SSOs due to grease	28. Continue inspections in response to SSOs due to grease
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. 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 December 31, 2020.
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 performance measures and KPI tracking.	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond December 31, 2020.
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.	SPIDER manhole inspection solutions has been implemented and is currently being reconfigured to meeting changing procedural requirements. GIS integration in progress with 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 2020 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 2020 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.	Enhancing processes, including CAD, to facilitate automate CAD to GIS conversion. As-built LISP script validation completed. CAD auto-convert to GIS format completed. Enterprise GIS and eBuilder integration in progress.

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond December 31, 2020.
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. 2. CCTV contract to inspect for gravity sewer mains for Pump Station 0001 was awarded. 3. CCTV inspection matrix was developed for a 10 year cycle.	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond December 31, 2020.
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: Implementation of upgrades to the Pump Station Division's electronic asset management system to include Problem, Failure, Action, and Cause codes, and Preventative Maintenance schedules	Work on the program will include the activities listed in the CMOM Implementation Schedule and will continue beyond December 31, 2020. Review and revision of existing Equipment and Preventative Maintenance Schedules. Updates to Construction Management Business Process.
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 Assessment Program is pending approval of the Criticality Assessment and Prioritization Report (submitted to the EPA/FDEP on July 17, 2018). 2. Re-inspection cycle for 60-inch and 66-inch PPCP pipes in the south area of the County was completed	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond December 31, 2020. Re-inspection cycle for 72-inch PPCP pipes in the south area of the County to take place.

Table A-2.1 New CMOM Programs

Paragraph	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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.	<p>Work on the program was ongoing:</p> <ol style="list-style-type: none"> 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 January 15, 2020 and online via Microsoft Teams on June 3, 2020 to discuss Hauled Waste Program and any issues or concerns related to illicit hauled waste or discharges to the plant or collection system. 	<p>Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond December 31st, 2020.</p> <p>Next RER-DERM/WASD Coordination Meetings will be held on September 2, 2020 and November 25, 2020 to discuss Hauled Waste Program and any issues or concerns related to illicit hauled waste or discharges to the plant or collection system.</p>
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 FYTD October 2019 thru March 2020 can be found in Appendix C.	Work on the program will be ongoing and will continue beyond December 31, 2020.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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.	This project reached substantial completion on November 6, 2019 ahead of CD compliance date of February 23, 2020.	N/A
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 construct a new electrical building which include new electrical equipment, procure and install a new compression unit #4 and retrofit existing air compression unit #3.	Construction continued.	Construction will continue.
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 trains, (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) Construction Train 4 Oxygenation tanks structural rehab continued. 1.3(2) Permitting for Electrical Building Expansion and Oxygenation Trains Mixer Upgrades continued. 1.3(3) Design for oxygenation train - SS 5/6 and SS 15/16 continued.	1.3(1) Construction for Train 4 Oxygenation tanks structural rehab will be completed. 1.3(2) Permitting for Electrical Building Expansion and mixer upgrade will be completed. Procurement will commence. 1.3(3) Design for oxygenation train - SS 5/6 and SS 15/16 will be completed. Permitting will commence.
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.	Permitting continued. Procurement commenced	Permitting and procurement will be completed Construction 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 1 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) This child project reached substantial completion on May 26, 2020. 1.5(2) Construction continued. 1.5(3) Completed on January 23, 2016.	1.5(1) N/A 1.5(2) Construction will continue. 1.5(3) N/A
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 be completed. Design/Build Construction will commence.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
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 for Clusters 1 and 2; 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. This project also includes the construction of a new substation 7 & 8, a new Acid Phase Building and new Gas Flares.	Construction continued.	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 be completed. Design/Build Construction will commence.
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.	This project reached substantial completion on March 26, 2019 ahead of the CD compliance date of May 24, 2019.	N/A
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 serving Headworks Plant 1 and Plant 2.	Design was completed and permitting continued. Procurement commenced	Permitting and procurement will be completed. Construction will commence.
1.11	General Electrical	The SDWWTP General Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical equipment, controls and wiring as needed throughout the plant. 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 (Part of 1.05(2))	1.11(1.1) Procurement (Re-Bid) continued. 1.11(1.2) Procurement continued. 1.11(2) Construction continued.	1.11(1.1) Procurement (Re-Bid) will be completed and construction will commence. 1.11(1.2) Procurement will be completed. Construction will commence. 1.11(2) Construction will continued.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
1.12	Chlorine Contact Chamber Structural Rehabilitation	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>1.12(1) Actuator Replacement reached substantial completion on June 5, 2018.</p> <p>1.12(2) Construction for or Structural rehab. of contact chambers # 3 and #4 continued. Procurement for Structural rehab. of Contact Chamber #2 commenced.</p>	1.12(2) Construction for Structural rehab. of contact chambers # 3 and #4 will be completed. Procurement for Structural rehab. of contact chamber #2 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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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 to reflect 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> <ol style="list-style-type: none"> 2.1(1) Construction Sub-Stations 1 & 2 Completed on May 5, 2016. 2.1(2) Construction continued. 2.1(3) Construction continued. 2.1(4) Construction continued. 2.1(5) Construction continued. 2.1(6) Construction was completed on October 4, 2019. 2.1(7) Procurement was completed and construction commenced.. 	<ol style="list-style-type: none"> 2.1(2) Construction will continue. 2.1(3) Construction will continue. 2.1(4) Construction will continue. 2.1(5) Construction will continue. 2.1(7) Construction will continue.
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>This project reached substantial completion on January 17, 2020.</p> <ol style="list-style-type: none"> 2.2(1a) Completed on June 1, 2015. 2.2(1b) Construction was completed on January 17, 2018. 2.2(1c) Completed on October 19, 2016. 2.2(2) Completed on January 17, 2020. 	N/A
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>This project reached substantial completion on March 7, 2019 ahead of the CD compliance date of March 16, 2019.</p>	N/A
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>This project reached substantial completion on August 13, 2019 ahead of CD compliance date of August 23, 2019.</p>	N/A
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. Mixer retrofits were completed in early 2014. Structural rehabilitation work for Train #2 and Train #3 were performed by WASD in-house forces during the dry seasons.</p>	<p>This project reached substantial completion on June 22, 2018 ahead of the CD compliance date of April 12, 2019.</p>	N/A

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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.	Construction for Train #2 structural rehab continued. Procurement for Train #4 structural rehab continued.	Construction for Train #2 structural rehab will be completed. Procurement for Train #4 structural rehab will be completed and construction will commence.
2.7	Secondary Clarifiers Plant 1	The CDWWTP Secondary Clarifiers Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. 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 and permitting was completed. Procurement commenced 2.7(2) Construction continued. 2.7(3) Procurement and construction continued.	2.7(1) Procurement will continue. 2.7(2) Construction will continue. 2.7(3) Procurement and construction 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) Construction continued. 2.8(2) Construction continued. 2.8(3) Procurement and construction continued.	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.	Permitting was completed. Procurement commenced.	Procurement 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) Construction continued. 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.	Construction continued.	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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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 be completed. Design/Build Construction will commence.
2.13	Sludge Thickeners Plant 2	The CDWWTP Sludge Thickeners Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. 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 be completed. Design/Build Construction will commence.
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.
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) Construction continued. 2.15(3) Procurement temporarily suspended pending Cluster 1 or 2. 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) Procurement will resume.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
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 be completed. Design/Build Construction will commence.
2.17	Chlorination Facilities	The CDWWTP Chlorination Facilities project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the design and construction of a new bulk sodium hypochlorite storage and dosing system in separate outdoor structures to replace the existing chlorine gas system.	This project reached substantial completion on July 27, 2018 ahead of the CD compliance date of October 15, 2018.	N/A
2.18	Odor Control Systems	The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. This involves the replacement of the motor control center of the odor control buildings including air-conditioned electrical rooms. It also involves replacement of odor control chemical pumps, piping, valves and gas stripping tower media. 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).	2.18(1) This child project reached substantial completion on September 11, 2019. 2.18(2) Procurement continued. (Bid cancellation on May 30, 2018. (Project was readvertised in November, 2018.)	2.18(1) N/A 2.18(2) Procurement will be completed. Design/Build Construction will commence.
2.19	Co-Gen Facility	The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the installation of two new cogeneration engines, cogeneration building improvements, replacement of biogas pipeline and installation of biogas conditioning system. 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.	2.19(1) Project completed on January 27, 2016. 2.19(2a) Project paused at testing/commissioning stage due to lack of bio gas availability. EPA and FDEP notified of the delay on January 10, 2020 and May 21, 2020. 2.19(2b) Project completed on May 18, 2020	2.19(2a) Testing and Commissioning to resume pending bio gas availability.
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

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
2.21	Pump Station 1	The CDWWTP Pump Station No. 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the pump station for the odor control system and rehabilitate the bar screen mechanisms.	Construction was completed on December 19, 2019 ahead of the CD compliance date of February 26, 2021.	N/A
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 (Project 2.12, 2.13 and 2.16) 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) Procurement continued 2.25(2) Construction was completed. 2.25(3) Construction continued. 2.25(4) Construction was completed. 2.25(5) Construction continued.	2.25(1) Procurement will be completed and construction will commence. 2.25(2) N/A 2.25(3) Construction will continue. 2.25(4) N/A 2.25(5) Construction will be completed.
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.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
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) Design-Build continued.	2.27(2) Design-Build will continue.
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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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 of 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 was completed on February 20, 2019. 3.2(2) Construction continued.	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.	Design and permitting will be completed Procurement 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 and permitting will be completed Procurement will commence.
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) Secondary Clarifiers Remaining Scope of Work.	3.5(1) This child project was completed on March 30, 2017. 3.5(2) Construction continued.	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.	Construction continued.	Construction will be completed.
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

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
3.8	Plant Wide Electrical	<p>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:</p> <p>1) NDWWTP General Electrical In House Construction Feeders 1 and 2 have been replaced.</p> <p>2) Electrical Feeders 3-6 Feeders 3-6 will be replaced in conjunction with Project 3.1.</p> <p>3) Electrical Feeders 7-8 Feeders 7 and 8 will be replaced along with Projects 3.3 & 3.4.</p> <p>4) Electrical Feeders 9-10 & 13-14 Feeders 11 & 12 were completed due to recent upgrades performed on the deep injection well pump motors.</p>	<p>3.8(1) General Electrical In-house construction (Feeders 1-2) was completed on January 15, 2016.</p> <p>3.8(2) Electrical Feeders 3-6 (Project 3.1) was completed on December 6, 2017.</p> <p>3.8(3) Electrical Feeders 7-8 designed continued (scope considered under CD 3.3 and CD 3.4)</p> <p>3.8(4) Design and permitting was completed. Procurement commenced.</p>	<p>3.8(1) N/A</p> <p>3.8(2) N/A</p> <p>3.8(3) Electrical Feeders 7-8 design will be completed</p> <p>3.8(4) Procurement will be completed. Construction will commence.</p>
3.9	Flood Mitigation	<p>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.</p>	<p>This project was completed on June 24, 2016, ahead of the CD compliance date of August 13, 2017.</p>	N/A
3.10	Yard Piping Replacement	<p>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.</p>	<p>This project was completed on May 24, 2016, ahead of the CD compliance date of December 4, 2021.</p>	N/A
3.11	SCADA RTU Upgrades	<p>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.</p>	<p>This project was completed on November 26, 2014, ahead of the CD compliance date March 24, 2015.</p>	N/A

Table A-4.1 Wastewater Collection and Transmission Lines

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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 were completed. Construction continued. See individual status of each project in Table A-4.2.	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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
1	12	SW 112 Ave. & SW 104 St.	SW 112 Ave. & SW 112 St.	This project was complete on June 5, 2020.	N/A
2	8	NE 14 Ave. & 191 St.	NE 14 Ave. & Miami Gardens Dr.	This project was complete on June 5, 2020.	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
16	10	PS 427	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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
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	This project was complete on June 5, 2020.	N/A
28	8	PS 786	MH 5 @ PS 785	This project was complete on June 5, 2020.	N/A
29	12	PS 811	SW 107 Ave. & SW 76 St.	This project was completed on September 12, 2019.	N/A
30	12	PS 811	SW 102 Ave. & SW 81 St.	This project was completed on September 12, 2019.	N/A
31	10	PS 812	SW 102 Ave. & SW 84 St.	This project was completed on September 12, 2019.	N/A
32	12	SW 107 Ave. & SW 104 St.	SW 107 Ave. & Kendale Blvd.	This project was completed on October 13, 2017.	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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
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.	This project was completed on April 21, 2020.	N/A
35	6	SW 110 Ave. & Banyan St.	SW 95 Ave. & SW Banyan St.	This project was completed on April 21, 2020.	N/A
36	4	PS 721	US1 & Banyan St.	This project was completed on April 21, 2020.	N/A
37	4	PS 749	PS 731	This project was completed on April 21, 2020.	N/A
38	4	PS 747	US1 & East Indigo St.	This project was completed on April 21, 2020.	N/A
39	10	SW 102 Ave. & SW 176 St.	Homestead Ave. & West Jessamine	This project was completed on April 21, 2020.	N/A
40	8	PS 745	SW 102 Ave. & SW 175 St.	This project was completed on April 21, 2020.	N/A
41	4	PS 731	SW Duval Ave. & West Indigo St.	This project was completed on April 21, 2020.	N/A
42	10	SW 102 Ave. & West Jessamine	US1 & SW 184 St.	This project was completed on April 21, 2020.	N/A
43	12	Homestead Ave. & 180 St.	Railroad St. & SW 184 St.	This project was completed on April 21, 2020.	N/A
44	8	PS 810	SW 118 Pl. & SW 72 St.	This project was complete on June 5, 2020.	N/A
45	12	PS 793	SW 118 Pl. & SW 72 St.	This project was complete on June 5, 2020.	N/A
46	6	PS 724	SW 106 Ave. & SW 155 St.	This project was complete on April 21, 2020.	N/A
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.	This project was completed on September 12, 2019.	N/A
49	10	PS 1029	SW 132 Ave. & 268 St.	This project was completed on September 12, 2019.	N/A
50	8	SW 137 Ave. & SW 268 St.	SW 128 Ave. & 268 St.	This project was completed on September 12, 2019.	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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
51	10	PS 1028	SW 137 Ave. & 288 St.	This project was completed on September 12, 2019.	N/A
52	10	PS 1027	SW 132 Ave. & 280 St.	This project was completed on September 12, 2019.	N/A
53	8	PS 1018	MH 44A @ SW 132 Ave.	This project was completed on September 12, 2019.	N/A
54	12	SW 137 Ave. & SW 72 St.	SW 142 Ave. & SW 72 St.	This project was complete on June 5, 2020.	N/A
55	12	SW 142 Ave. & SW 72 St.	SW 147 Ave. & SW 72 St.	This project was complete on June 5, 2020.	N/A
56	8	PS 864	SW 147 Ave. & SW 72 St.	This project was complete on June 5, 2020.	N/A
57	8	SW 142 Ave. & Kendale Lakes Blvd.	SW 140 Ave. & Kendale Lakes Blvd.	This project was complete on June 5, 2020.	N/A
58	10	SW 140 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & Kendale Lakes Blvd.	This project was complete on June 5, 2020.	N/A
59	12	SW 137 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & SW 81 St.	This project was complete on June 5, 2020.	N/A
60	8	PS 1013	PS 1012	This project was completed on August 21, 2019.	N/A
61	10	PS 1012	SW 144 Ave. & SW 280 St.	This project was completed on August 21, 2019.	N/A
62	8	PS 1011	SW 144 Ct. & SW 280 St.	This project was completed on August 21, 2019.	N/A
63	10	SW 147 Ave. & SW 288 St.	SW 134 Pl. & SW 288 St.	This project was completed on September 12, 2019.	N/A
64	6	PS 1009	SW 147 Ave. & SW 296 St.	This project was complete on June 5, 2020.	N/A
65	6	PS 1006	PS 1005	This project was complete on December 12, 2019.	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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
66	8	PS 1002	SW 152 & SW 304 St.	This project was complete on June 5, 2020.	N/A

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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 completion was achieved on November 8, 2019.	N/A
5.2	Decommissioning 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 No. 0691. EPA and FDEP approved the request for modification in April 2016.	PS No. 0691 was decommissioned on November 8, 2019.	N/A
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.	The County notified EPA and FDEP on May 5, 2020 and on June 16, 2020 of Delay, Force Majeure and Failure to Meet the Compliance Date. Construction continued.	Construction will be completed.
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 No. 1310 and PS No. 0300. The purpose of this project is to convert PS No. 0414 into a booster type station and rehabilitate and replace the entire facility equipment (pumps, motors, electrical equipment, HVAC, valves, and piping).	Construction was completed on June 11, 2019, ahead of the CD compliance date of June 15, 2019.	N/A
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 No. 0415.	Construction completion was achieved on November 13, 2019.	N/A
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 was completed on June 11, 2019, ahead of the CD compliance date of June 13, 2019.	N/A
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 No. 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 (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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 No. 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 No. 0301. Phase 2 will include the construction of a new submersible pump station.	Construction continued.	Construction 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 No. 0559 and PS No. 0536. The purpose of this project was originally to install a 60 inch FM from Kendall Dr. to PS No. 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 was completed on February 13, 2019, ahead of CD compliance date of May 18, 2019.	N/A
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 was completed on March 25, 2019, ahead of the CD compliance date of March 26, 2019.	N/A
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
5.14	Upgrade of PSs Nos. 0086 and 0492	The Upgrade of PSs 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, PS 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 PS 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

Table A-5.1 Sewer Pump Station Systems

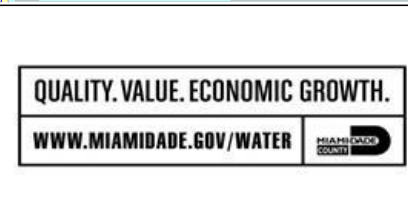
Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) Calendar Quarters
5.15	Upgrade of PSs Nos. 0065, 0201, 0334, 0374, 0607	The Upgrade of PSs No. 0065, 0201, 0334, 0374, 0607 project is being 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 No. 0198 is being upgraded to include new submersible pumps in a new triplex wet well, an electrical upgrade and flow isolation. PS No. 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 No. 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
5.17	Upgrade of PSs Nos. 0037, 0351, 0370, 0403	The Upgrade of PSs No. 0037, 0351, 0370, 0403 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0037 project involves the conversion to a new submersible type pump station and an electrical upgrade. The PS No. 0351 is being upgraded to include new submersible pumps, installation of a new valve box, an electrical upgrade and the replacement of 360 L.F. of 4 inch with 8 inch FM. The PS No. 0370 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 760 L.F. of new 8 inch FM. The PS No. 0403 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of an on-site generator. This project is split into four (4) different sub/child projects (one per pump station). 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	This project was completed on April 30, 2018 ahead of CD compliance date of November 20, 2018. 5.17(1) PS No. 0037: Construction was completed on November 14, 2017. 5.17(2) PS No. 0351: Construction was completed on December 1, 2017. 5.17(3) PS No. 0370: Construction was completed on January 11, 2018. 5.17(4) PS No. 0403: Construction was completed on April 30, 2018.	N/A

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two (2) Calendar Quarters	Anticipated Actions to Be Performed in the Next Two (2) 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) Construction was completed on August 14, 2019. 5.18(2) Construction was completed on November 15, 2019. 5.18(3) Construction was completed on August 14, 2019. 5.18(4) Construction was completed on November 18, 2019. 5.18(5) Construction was completed on July 26, 2019. 5.18(6) Construction was completed on May 1, 2017.</p>	N/A
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>	N/A

Appendix B Project Schedules Gantt Chart

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026																			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
WASD Consent Decree Schedule - June 2020 Update																								
0. General Compliance Activities																								
Program Milestones																								
General Compliance Activity																								
MC10000	Date of Lodging (DOL)	0	06-Jun-13 A	06-Jun-13 A																				
MC10010	Effective Date - 6 months from DOL	0	06-Jun-13 A	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																								
Quarterly Reports																								
General Compliance Activity																								
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 A	29-Jan-19 A																				
PM50580	2019 Quarterly Report No 1	32	31-Mar-19 A	29-Apr-19 A																				
PM50590	2019 Quarterly Report No 2	31	30-Jun-19 A	30-Jul-19 A																				
PM50600	2019 Quarterly Report No 3	31	30-Sep-19 A	30-Oct-19 A																				
PM50610	2019 Quarterly Report No 4	31	31-Dec-19 A	31-Jan-20 A																				
PM50650	2020 Quarterly Report No 1	32	31-Mar-20 A	30-Apr-20 A																				
PM50660	2020 Quarterly Report No 2	31	30-Jun-20 A	30-Jul-20																				
PM50670	2020 Quarterly Report No 3	31	30-Sep-20*	30-Oct-20																				
PM50680	2020 Quarterly Report No 4	33	31-Dec-20*	01-Feb-21																				
Semi Annual Reports																								
General Compliance Activity																								
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 A	31-Jan-19 A																				
PM50620	2019 Semi Annual Report No 1	31	30-Jun-19 A	30-Jul-19 A																				
PM50630	2019 Semi Annual Report No 2	32	31-Dec-19 A	31-Jan-20 A																				
PM50690	2020 Semi Annual Report No 1	31	30-Jun-20 A	30-Jul-20																				
PM50700	2020 Semi Annual Report No 2	33	31-Dec-20*	01-Feb-21																				
Annual Report																								
General Compliance Activity																								
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 A	01-Mar-19 A																				
PM50640	2019 Annual Report	63	31-Dec-19 A	02-Mar-20 A																				
PM50710	2020 Annual Report	62	31-Dec-20*	02-Mar-21																				
Program Management/Construction Management Support																								



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-Apr-20	Mar 2020 Update		
15-May-20	Apr 2020 Update		
15-Jun-20	May 2020 Update		
15-Jul-20	June 2020 Update		

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					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
General Compliance Activity					22-Feb-24, General Compliance Activity																																			
PM50000	Program Management/Construction Management	3549	06-Jun-14 A	22-Feb-24	Program Management/Construction Management																																			
1. South District WWTP					16-Nov-25, 1																																			
1.01 Headworks					15-Apr-20 A, 1.01 Headworks																																			
1.02 Oxygen Production					25-Feb-22, 1.02 Oxygen Production																																			
Pre-Design					08-Jan-18 A, Pre-Design																																			
SD11232	Pre-Design - SD Oxygen Production	143	17-Nov-14 A	08-Apr-15 A																																				
SD42420	Negotiations for ESDC & Stormwater Permit - SD Oxygen Production	497	14-Jul-15 A	21-Nov-16 A	Stormwater Permit - SD Oxygen Production																																			
SD44370	Allowance Request Proposal for Re-Bid - SD Oxygen Production	22	26-Oct-17 A	08-Jan-18 A	Allowance Request Proposal for Re-Bid - SD Oxygen Production																																			
Engineering Design					01-Jan-15 A, 29-May-16 A																																			
SD42960	EPA Start Date for Engineering Design - SD Oxygen Production**	0	01-Jan-15 A																																					
SD20180	Basis of Design Report (BODR) - SD Oxygen Production	100	03-Apr-15 A	11-Jul-15 A																																				
SD20190	BODR Review Period - SD Oxygen Production	14	12-Jul-15 A	25-Jul-15 A																																				
SD20200	30% Design Submittal - SD Oxygen Production	16	26-Jul-15 A	10-Aug-15 A																																				
SD20210	30% Design Review - SD Oxygen Production	7	11-Aug-15 A	17-Aug-15 A																																				
SD20220	60% Design Submittal - SD Oxygen Production	49	18-Aug-15 A	05-Oct-15 A																																				
SD30990	Develop Equipment Pre-Purchase Package - SD Oxygen Production	7	29-Sep-15 A	05-Oct-15 A	Oxygen Production																																			
SD20230	60% Design Review - SD Oxygen Production	9	05-Oct-15 A	13-Oct-15 A																																				
SD20240	100% Design Submittal - SD Oxygen Production	55	14-Oct-15 A	07-Dec-15 A																																				
SD10050	Engineering Design - SD Oxygen Production	311	03-Apr-15 A	07-Feb-16 A	duction																																			
SD40120	100% Design Review/Permit Ready Submittal - SD Oxygen Production	62	08-Dec-15 A	07-Feb-16 A	il - SD Oxygen Production																																			
SD41980	EPA Compliance Date for Engineering Design - SD Oxygen Production	0		29-May-16 A	g Design - SD Oxygen Production																																			
Permitting					08-Feb-16 A, 19-May-17 A																																			
SD42970	EPA Start Date for Permitting - SD Oxygen Production	0	30-May-16 A		Oxygen Production																																			
SD10090	Permitting - SD Oxygen Production	429	08-Feb-16 A	11-Apr-17 A	SD Oxygen Production																																			
SD41810	RER Derm Permit - SD Oxygen Production	429	08-Feb-16 A	11-Apr-17 A	nit - SD Oxygen Production																																			
SD42890	Building Dept. Permit - SD Oxygen Production	429	08-Feb-16 A	11-Apr-17 A	ermit - SD Oxygen Production																																			
SD41820	Stormwater Permit - SD Oxygen Production	141	22-Nov-16 A	11-Apr-17 A	mit - SD Oxygen Production																																			
SD41990	EPA Compliance Date for Permitting - SD Oxygen Production	0		19-May-17 A	ce Date for Permitting - SD Oxygen Production																																			
Procurement					15-Aug-15 A, 23-Sep-20, Procurement																																			
SD41250	Pre-Purchase Bid Package (Control Panels) - SD Oxygen Production	298	15-Aug-15 A	10-Dec-15 A	Oxygen Production																																			
SD42980	EPA Start Date for Procurement - SD Oxygen Production	0	26-Nov-16 A		emerit - SD Oxygen Production																																			
SD30140	Design Documents sent to Procurement - SD Oxygen Production	0	28-Nov-16 A		o Procurement - SD Oxygen Production																																			
SD31160	Pre-Purchase Bid Package (Air Compressors) - SD Oxygen Production	146	09-Sep-16 A	01-Feb-17 A	ckage (Air Compressors) - SD Oxygen Production																																			
SD31170	Advertise Pre-Purchase Package (Air Compressors) - SD Oxygen Production	0	02-Feb-17 A		se Package (Air Compressors) - SD Oxygen Production																																			
SD30150	Submit/Approve SBD Goals and Request to Advertise - SD Oxygen Production	86	28-Nov-16 A	21-Feb-17 A	D Goals and Request to Advertise - SD Oxygen Production																																			
SD30160	Advertise Bid Packages - SD Oxygen Production	0	22-Feb-17 A		ges - SD Oxygen Production																																			
SD30170	Bid Solicitation Period - SD Oxygen Production	105	22-Feb-17 A	06-Jun-17 A	on Period - SD Oxygen Production																																			
SD30180	Bids Due - SD Oxygen Production	0	07-Jun-17 A		D Oxygen Production																																			
SD31180	Vendor Bid & Award (Air Compressors) - SD Oxygen Production	174	02-Feb-17 A	25-Jul-17 A	id & Award (Air Compressors) - SD Oxygen Production																																			
SD31190	Vendor NTP (Air Compressors) - SD Oxygen Production	0	26-Jul-17 A		TP (Air Compressors) - SD Oxygen Production																																			
SD42000	EPA Compliance Date for Procurement - SD Oxygen Production	0		30-Sep-17 A	Compliance Date for Procurement - SD Oxygen Production																																			
SD30190	Bid Review Period - SD Oxygen Production	180	07-Jun-17 A	27-Nov-17 A	Bid Review Period - SD Oxygen Production																																			
SD44380	Bids Rejected - SD Oxygen Production	0		27-Nov-17 A	Bids Rejected - SD Oxygen Production																																			
SD44500	RTA Approval for Revised Packages - SD Oxygen Production	30	12-Mar-18 A	23-Mar-18 A	RTA Approval for Revised Packages - SD Oxygen Production																																			
SD44280	Revise Bid Packages - SD Oxygen Production	30	08-Jan-18 A	04-Apr-18 A	Revise Bid Packages - SD Oxygen Production																																			
SD44610	Submit/Approve SBD Goals for Revised Packages - SD Oxygen Production	4	05-Apr-18 A	08-Apr-18 A	Submit/Approve SBD Goals for Revised Packages - SD Oxygen Production																																			
SD44290	Re-Advertise Bid Packages - SD Oxygen Production	0	09-Apr-18 A		Re-Advertise Bid Packages - SD Oxygen Production																																			
SD44300	Bid Solicitation Period for Revised Packages - SD Oxygen Production	90	09-Apr-18 A	20-Jun-18 A	Bid Solicitation Period for Revised Packages - SD Oxygen Production																																			
SD44310	Bids Due for Revised Packages - SD Oxygen Production	0	21-Jun-18 A		Bids Due for Revised Packages - SD Oxygen Production																																			
SD44320	Bid Review Period for Revised Packages - SD Oxygen Production	30	21-Jun-18 A	30-Aug-18 A	Bid Review Period for Revised Packages - SD Oxygen Production																																			
SD30200	Award Recommendation - SD Oxygen Production	0	31-Aug-18 A		Award Recommendation - SD Oxygen Production																																			
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	21-May-19 A	Vendor Bid & Award (Control Panels) - SD Oxygen Production																																			
SD41290	Vendor NTP (Control Panels) - SD Oxygen Production	0	22-May-19 A		Vendor NTP (Control Panels) - SD Oxygen Production																																			
SD41260	Pre-Purchase Control Panels (Summary) - SD Oxygen Production	640	15-Aug-15 A	24-Jan-20 A	Pre-Purchase Control Panels (Summary) - SD Oxygen Production																																			
SD41300	Fabricate & Deliver Control Panels - SD Oxygen Production	255	22-May-19 A	24-Jan-20 A	Fabricate & Deliver Control Panels - SD Oxygen Production																																			
SD30000	Pre-Purchase Air Compressors (Summary) - SD Oxygen Production	1006	09-Sep-16 A	23-Sep-20	Pre-Purchase Air Compressors (Summary) - SD Oxygen Production																																			
SD31200	Fabricate & Deliver Air Compressor No. 4 - SD Oxygen Production	433	26-Jul-17 A	23-Sep-20	Fabricate & Deliver Air Compressor No. 4 - SD Oxygen Production																																			
Construction					12-Apr-16 A, 25-Feb-22, Construction																																			
SD41590	Install New Oil/Water Separator (WASD)	43	12-Apr-16 A	24-May-16 A	D)																																			
SD42990	EPA Start Date for Construction - SD Oxygen Production	0	01-Oct-17 A		Start Date for Construction - SD Oxygen Production																																			
SD30220	Contractor NTP - SD Oxygen Production	0	07-Jan-19 A		Contractor NTP - SD Oxygen Production																																			
SD41530	Construct New Electrical Building	412	07-Jan-19 A	19-Sep-20	Construct New Electrical Building																																			
SD41830	Install Instrumentation and Controls	12	08-Sep-20	19-Sep-20	Install Instrumentation and Controls																																			
SD41540	Install & Test Compressor No. 4	120	24-Sep-20	21-Jan-21	Install & Test Compressor No. 4																																			
SD41570	Disassemble, Ship, Refurbish and Return Compressor No. 3	150	22-Jan-21	20-Jun-21	Disassemble, Ship, Refurbish and Return Compressor No. 3																																			
SD10260	Construction (Consent Decree) - SD Oxygen Production	770	07-Jan-19 A	19-Aug-21	Construction (Consent Decree) - SD Oxygen Production																																			
SD41550	Install & Test Compressor No. 3	60	21-Jun-21	19-Aug-21	Install & Test Compressor No. 3																																			
SD10440	Construction Completion Milestone #1 (CD Compliance Date 2/25/22) - SD Oxygen Production	0		19-Aug-21*	Construction Completion Milestone #1 (CD Compliance Date 2/25/22) - SD Oxygen Production																																			
SD41560	Decommission Compressors No. 1 and No. 2	40	30-Aug-21	08-Oct-21	Decommission Compressors No. 1 and No. 2																																			
SD43880	Construction (Non-Consent Decree) - SD Oxygen Production	81	20-Aug-21	08-Nov-21	Construction (Non-Consent Decree) - SD Oxygen Production																																			
SD44780	Commissioning - SD Oxygen Production	30	10-Oct-21	08-Nov-21	Commissioning - SD Oxygen Production																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																											
					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		
SD43530	Engineering Design - SS 5/6 and SS 15/16 (OOL ST-2D)	277	13-Feb-19 A	22-Sep-20	Engineering Design - SS 5/6 and SS 15/16 (OOL ST-2D)																											
SD44580	100% Design - SS 5/6 and SS 15/16 (OOL ST-2D)	97	12-Sep-19 A	22-Sep-20	100% Design - SS 5/6 and SS 15/16 (OOL ST-2D)																											
Permitting		191	01-Sep-20	10-Mar-21	Permitting - SS 5/6 and SS 15/16 (OOL ST-2D)																											
SD44510	Permitting - SS 5/6 and SS 15/16 (OOL ST-2D)	191	01-Sep-20	10-Mar-21	Permitting - SS 5/6 and SS 15/16 (OOL ST-2D)																											
Procurement		312	09-Mar-21	14-Jan-22	Procurement - SS 5/6 and SS 15/16 (OOL ST-2D)																											
SD44520	Procurement - SS 5/6 and SS 15/16 (OOL ST-2D)	312	09-Mar-21	14-Jan-22	Procurement - SS 5/6 and SS 15/16 (OOL ST-2D)																											
Construction		472	17-Jan-22	03-May-23	Construction - 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	17-Jan-22		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)	437	17-Jan-22	29-Mar-23	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		29-Mar-23	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)	35	30-Mar-23	03-May-23*	Project Closeout - SS 5/6 and SS 15/16 (OOL ST-2D)																											
Project Administration		2307	22-Feb-16 A	03-May-23	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	03-May-23	WASD Project Administration - SS 5/6 and SS 15/16 (OOL ST-2D)																											
1.04 Chlorine Building		2184	15-Aug-17 A	07-Aug-23	1.04 Chlorine Building																											
Pre-Design		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		344	17-Jul-18 A	29-Aug-19 A	Engineering Design - 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	31-Jan-19 A	30% Design Review - SD Chlorine Building																											
SD45380	60% Design Submittal / Review - SD Chlorine Building	27	24-Jan-19 A	02-Apr-19 A	60% Design Submittal / Review - SD Chlorine Building																											
SD42060	EPA Compliance Date for Engineering Design - SD Chlorine Building	0		10-Apr-19 A	EPA Compliance Date for Engineering Design - SD Chlorine Building																											
SD20400	100% Design Submittal - SD Chlorine Building	30	03-Apr-19 A	20-May-19 A	100% Design Submittal - SD Chlorine Building																											
SD10350	Engineering Design - SD Chlorine Building	312	17-Jul-18 A	29-Aug-19 A	Engineering Design - SD Chlorine Building																											
SD40140	100% Design Review/Permit Ready Submittal - SD Chlorine Building	30	21-May-19 A	29-Aug-19 A	100% Design Review/Permit Ready Submittal - SD Chlorine Building																											
Permitting		366	11-Apr-19 A	31-Jul-20	Permitting - SD Chlorine Building																											
SD43050	EPA Start Date for Permitting - SD Chlorine Building	0	11-Apr-19 A		EPA Start Date for Permitting - SD Chlorine Building																											
SD42070	EPA Compliance Date for Permitting - SD Chlorine Building	0		09-Apr-20 A	EPA Compliance Date for Permitting - SD Chlorine Building																											
SD10380	Permitting - SD Chlorine Building	180	30-Aug-19 A	31-Jul-20	Permitting - SD Chlorine Building																											
Procurement		380	28-Feb-20 A	09-Apr-21	Procurement - SD Chlorine Building																											
SD43430	Internal Bid Package Review - SD Chlorine Building	3	28-Feb-20 A	05-Mar-20 A	Internal Bid Package Review - SD Chlorine Building																											
SD30490	Design Documents Sent to Procurement - SD Chlorine Building	0	06-Mar-20 A		Design Documents Sent to Procurement - SD Chlorine Building																											
SD43060	EPA Start Date for Procurement - SD Chlorine Building - SD Chlorine Building	0	10-Apr-20 A		EPA Start Date for Procurement - SD Chlorine Building - SD Chlorine Building																											
SD30500	Submit/Approve SBD Goals and Request to Advertise - SD Chlorine Building	60	06-Mar-20 A	20-May-20 A	Submit/Approve SBD Goals and Request to Advertise - SD Chlorine Building																											
SD30510	Advertise Bid Package - SD Chlorine Building	0	21-May-20 A		Advertise Bid Package - SD Chlorine Building																											
SD30520	Bid Solicitation Period - SD Chlorine Building	60	21-May-20 A	07-Jul-20	Bid Solicitation Period - SD Chlorine Building																											
SD30530	Bids Due - SD Chlorine Building	0	08-Jul-20		Bids Due - SD Chlorine Building																											
SD30540	Bid Review Period - SD Chlorine Building	42	08-Jul-20	18-Aug-20	Bid Review Period - SD Chlorine Building																											
SD30550	Award Recommendation - SD Chlorine Building	0		18-Aug-20	Award Recommendation - SD Chlorine Building																											
SD10470	Procurement - SD Chlorine Building - SD Chlorine Building	270	06-Mar-20 A	16-Dec-20	Procurement - SD Chlorine Building - SD Chlorine Building																											
SD30560	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Chlorine Building	120	19-Aug-20	16-Dec-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		964	17-Dec-20	07-Aug-23	Construction - SD Chlorine Building																											
SD10518	Contractor Notice to Proceed (NTP) - SD Chlorine Building	0	17-Dec-20		Contractor Notice to Proceed (NTP) - 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	17-Dec-20	07-Feb-22	Construction - SD Chlorine Building - SD Chlorine Building																											
SD44790	Commissioning - SD Chlorine Building	30	09-Jan-22	07-Feb-22	Commissioning - SD Chlorine Building																											
SD10580	Substantial Completion (CD Compliance Date 8/07/23) - SD Chlorine Building	0		07-Feb-22*	Substantial Completion (CD Compliance Date 8/07/23) - SD Chlorine Building																											
SD40030	Project Closeout - SD Chlorine Building	90	08-Feb-22	08-May-22*	Project Closeout - SD Chlorine Building																											
SD42090	EPA Compliance Date for Construction - SD Chlorine Building - SD Chlorine Building	0		07-Aug-23*	EPA Compliance Date for Construction - SD Chlorine Building - SD Chlorine Building																											
Project Administration		1363	17-Jul-18 A	08-May-22	WASD Project Administration - SD Chlorine Building																											
SD35040	WASD Project Administration - SD Chlorine Building	1363	17-Jul-18 A	08-May-22	WASD Project Administration - SD Chlorine Building																											
1.05 Effluent Pump Station		3062	19-Nov-13 A	07-Apr-22	1.05 Effluent Pump Station																											
Engineering Design		1654	19-Nov-13 A	27-Jul-18 A	Engineering Design - SD Effluent Pump Station																											
SD43080	EPA Start Date for Engineering Design - SD Effluent Pump Station	0	01-Sep-16 A		EPA Start Date for Engineering Design - SD Effluent Pump Station																											
SD42100	EPA Compliance Date for Engineering Design - SD Effluent Pump Station**	0		17-May-18 A	EPA Compliance Date for Engineering Design - SD Effluent Pump Station**																											
SD10170	Engineering Design - SD Effluent Pump Station	1618	19-Nov-13 A	27-Jul-18 A	Engineering Design - SD Effluent Pump Station																											
Permitting		1837	19-Nov-13 A	14-Dec-18 A	Permitting - SD Effluent Pump Station																											
SD43090	EPA Start Date for Permitting - SD Effluent Pump Station	0	18-May-18 A		EPA Start Date for Permitting - SD Effluent Pump Station																											
SD42110	EPA Compliance Date for Permitting - SD Effluent Pump Station	0		17-Nov-18 A	EPA Compliance Date for Permitting - SD Effluent Pump Station																											
SD10240	Permitting - SD Effluent Pump Station	1798	19-Nov-13 A	14-Dec-18 A	Permitting - SD Effluent Pump Station																											
Procurement		2020	18-Feb-14 A	31-Oct-19 A	Procurement - SD Effluent Pump Station																											
SD43100	EPA Start Date for Procurement - SD Effluent Pump Station	0	18-Nov-18 A		EPA Start Date for Procurement - SD Effluent Pump Station																											
SD42120	EPA Compliance Date for Procurement - SD Effluent Pump Station	0		13-Aug-19 A	EPA Compliance Date for Procurement - SD Effluent Pump Station																											
SD10320	Procurement - SD Effluent Pump Station	1980	18-Feb-14 A	31-Oct-19 A	Procurement - SD Effluent Pump Station																											
Construction		2880	20-May-14 A	07-Apr-22	Construction - SD Effluent Pump Station																											
SD43110	EPA Start Date for Construction - SD Effluent Pump Station	0	14-Aug-19 A		EPA Start Date for Construction - SD Effluent Pump Station																											
SD10410	Construction - SD Effluent Pump Station	2609	20-May-14 A	20-Oct-21	Construction - SD Effluent Pump Station																											
SD10570	Substantial Completion (CD Compliance Date 4/07/22) - SD Effluent Pump Station	0		20-Oct-21*	Substantial Completion (CD Compliance Date 4/07/22) - SD Effluent Pump Station																											
SD42130	EPA Compliance Date for Construction - SD Effluent Pump Station	0		07-Apr-22*	EPA Compliance Date for Construction - SD Effluent Pump Station																											
1.05 (1) Effluent Pump Station Wetwell Rehab		2491	19-Nov-13 A	23-Aug-20	1.05 (1) Effluent Pump Station Wetwell Rehab																											
Pre-Design		233	05-Jul-16 A	23-Feb-17 A	Pre-Design - SD Effluent Pump Station Wetwell Rehab																											
Engineering Design		133	24-Feb-17 A	07-Jul-17 A	Engineering Design - SD Effluent Pump Station Wetwell Rehab																											

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																											
					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					31-Oct-19 A, Procurement																											
Construction					23-Aug-20, Construction																											
SD30120	Wetwell #1 Piping - SD Effluent PS Wetwell Rehab	135	23-Jan-18 A	05-Jun-18 A	Wetwell #1 Piping - SD Effluent PS Wetwell Rehab																											
SD30130	Structural Rehab Wetwell #2 - SD Effluent PS Wetwell Rehab	135	23-Jan-18 A	05-Jun-18 A	Structural Rehab Wetwell #2 - SD Effluent PS Wetwell Rehab																											
SD44620	Structural Rehab Wetwell #1 - SD Effluent PS Wetwell Rehab	75	27-Sep-18 A	18-Apr-19 A	Structural Rehab Wetwell #1 - SD Effluent PS Wetwell Rehab																											
SD31740	Construction - Structural Rehab Wetwells	1472	23-Jan-18 A	26-May-20 A	Construction - Structural Rehab Wetwells																											
SD30020	Structural Rehab Wetwell #3 - SD Effluent PS Wetwell Rehab	180	01-Nov-19 A	26-May-20 A	Structural Rehab Wetwell #3 - SD Effluent PS Wetwell Rehab																											
SD30110	Structural Rehab Wetwell #4 - SD Effluent PS Wetwell Rehab	180	01-Nov-19 A	26-May-20 A	Structural Rehab Wetwell #4 - SD Effluent PS Wetwell Rehab																											
SD11042	Substantial Completion (CD Compliance Date 4/07/22) - SD Effluent PS Wetwell Rehab	0		26-May-20 A	Substantial Completion (CD Compliance Date 4/07/22) - SD Effluent PS Wetwell Rehab																											
SD42860	Project Closeout - SD Effluent PS Wetwell Rehab	90	26-May-20 A	23-Aug-20*	Project Closeout - SD Effluent PS Wetwell Rehab																											
Project Administration					26-May-20 A, Project Administration																											
SD35050	WASD Project Administration - SD Effluent PS Elect. Equip. (Pumps 7-9) & WW Rehab	1582	19-Nov-13 A	26-May-20 A	WASD Project Administration - SD Effluent PS Elect. Equip. (Pumps 7-9) & WW Rehab																											
1.05 (2) Effluent Pump Station Building Improvements & Pumps 1-6 Equip.					18-Jan-22, 1.05 (2) Effluent Pump Station Building Improvements & Pumps 1-6 Equip.																											
Pre-Design					03-Mar-16 A, Pre-Design																											
SD11192	Pre-Design - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	134	03-Mar-16 A	14-Jul-16 A	Pre-Design - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD41850	Negotiate Remaining Balance of Work - SD Effluent Pump Station Building Improvements & Pumps 1-6 Equip.	410	01-Sep-16 A	24-Oct-17 A	Negotiate Remaining Balance of Work - SD Effluent Pump Station Building Improvements & Pumps 1-6 Equip.																											
Engineering Design					14-Jul-16 A, Engineering Design																											
SD41840	Technical Memorandum (TM) - SD Effluent Pump Station Building Improvements & Pumps 1-6 Equip.	97	14-Jul-16 A	18-Oct-16 A	Technical Memorandum (TM) - SD Effluent Pump Station Building Improvements & Pumps 1-6 Equip.																											
SD20410	Draft Basis of Design Report (BODR) - SD Effluent Pump Station Building Improvements & Pumps 1-6 Equip.	45	24-Oct-17 A	11-Dec-17 A	Draft Basis of Design Report (BODR) - SD Effluent Pump Station Building Improvements & Pumps 1-6 Equip.																											
SD20420	BODR Review Period - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	7	12-Dec-17 A	18-Dec-17 A	BODR Review Period - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD44330	Final Basis of Design Report (BODR) - SD Effluent Pump Station Building Improvements & Pumps 1-6 Equip.	16	19-Dec-17 A	05-Jan-18 A	Final Basis of Design Report (BODR) - SD Effluent Pump Station Building Improvements & Pumps 1-6 Equip.																											
SD20450	60% Design Submittal - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	77	06-Jan-18 A	23-Mar-18 A	60% Design Submittal - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD20460	60% Design Review - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	14	24-Mar-18 A	16-Apr-18 A	60% Design Review - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD20470	100% Design Submittal - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	73	17-Apr-18 A	18-Jun-18 A	100% Design Submittal - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD11102	Engineering Design - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	191	24-Oct-17 A	27-Jul-18 A	Engineering Design - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD40150	100% Design Review/Permit Ready Submittal - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	25	19-Jun-18 A	27-Jul-18 A	100% Design Review/Permit Ready Submittal - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
Permitting					14-Dec-18 A, Permitting																											
SD11112	Permitting - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	170	16-Aug-18 A	14-Dec-18 A	Permitting - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
Procurement					02-Oct-19 A, Procurement																											
SD43440	Internal Bid Package Review - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	3	14-Nov-18 A	27-Nov-18 A	Internal Bid Package Review - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD30570	Design Documents Sent to Procurement - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	0	07-Dec-18 A		Design Documents Sent to Procurement - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD30580	Submit/Approve SBD Goals and Request to Advertise - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	60	07-Dec-18 A	07-Feb-19 A	Submit/Approve SBD Goals and Request to Advertise - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD30590	Advertise Bid Package - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	0	07-Feb-19 A		Advertise Bid Package - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD30600	Bid Solicitation Period - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	60	19-Feb-19 A	03-Apr-19 A	Bid Solicitation Period - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD30610	Bids Due - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	0	04-Apr-19 A		Bids Due - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD30620	Bid Review Period - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	30	04-Apr-19 A	06-Aug-19 A	Bid Review Period - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD30630	Award Recommendation - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	0		06-Aug-19 A	Award Recommendation - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD11122	Procurement - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	270	07-Dec-18 A	02-Oct-19 A	Procurement - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD30640	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	90	07-Aug-19 A	02-Oct-19 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
Construction					18-Jan-22, Construction																											
SD11130	Contractor Notice to Proceed (NTP) - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	0	03-Oct-19 A		Contractor Notice to Proceed (NTP) - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD11132	Construction - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	660	03-Oct-19 A	20-Oct-21	Construction - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD44800	Commissioning - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	30	21-Sep-21	20-Oct-21	Commissioning - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD11142	Substantial Completion (CD Compliance Date 4/07/22) - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	0		20-Oct-21*	Substantial Completion (CD Compliance Date 4/07/22) - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
SD40040	Project Closeout - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	90	21-Oct-21	18-Jan-22*	Project Closeout - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
Project Administration					18-Jan-22, Project Administration																											
SD35060	WASD Project Administration - SD Effluent PS Building Improvements & Pumps 1-6 Equip.	1454	24-Oct-17 A	18-Jan-22	WASD Project Administration - SD Effluent PS Building Improvements & Pumps 1-6 Equip.																											
1.05 (3) Effluent Pump Station Electrical Equipment (Pumps 7-9)					18-Jan-22, 1.05 (3) Effluent Pump Station Electrical Equipment (Pumps 7-9)																											
1.06 Gravity Sludge Thickeners					30-Apr-23, 1.06 Gravity Sludge Thickeners																											
Engineering Design					18-Aug-18 A, Engineering Design																											
SD20480	Technical Evaluation of Alternates - SD Gravity Sludge Thickeners	238	03-Jul-14 A	25-Feb-15 A	Technical Evaluation of Alternates - SD Gravity Sludge Thickeners																											
SD20550	Negotiate Scope and Cost with MWH - SD Gravity Sludge Thickeners	72	19-Dec-14 A	28-Feb-15 A	Negotiate Scope and Cost with MWH - SD Gravity Sludge Thickeners																											
SD20780	Basis of Design Report (BODR) - SD Gravity Sludge Thickeners	234	13-Apr-15 A	02-Dec-15 A	Basis of Design Report (BODR) - SD Gravity Sludge Thickeners																											
SD10280	Engineering Design - SD Gravity Sludge Thickeners	636	03-Jul-14 A	29-Mar-16 A	Engineering Design - SD Gravity Sludge Thickeners																											
SD41090	Issue Final RDBS - SD Gravity Sludge Thickeners	0		29-Mar-16 A	Issue Final RDBS - SD Gravity Sludge Thickeners																											
SD31020	Design Criteria Package Initial Submittal - SD Gravity Sludge Thickeners	145	03-Dec-15 A	26-Apr-16 A	Design Criteria Package Initial Submittal - SD Gravity Sludge Thickeners																											
SD31010	Pilot Testing of Thickening Process - SD Gravity Sludge Thickeners	252	21-Aug-15 A	29-Apr-16 A	Pilot Testing of Thickening Process - SD Gravity Sludge Thickeners																											
SD31040	DCP Design Review - SD Gravity Sludge Thickeners	25	25-Apr-16 A	19-May-16 A	DCP Design Review - SD Gravity Sludge Thickeners																											
SD31060	Final DCP Submittal - SD Gravity Sludge Thickeners	188	20-May-16 A	23-Nov-16 A	Final DCP Submittal - SD Gravity Sludge Thickeners																											
SD43120	EPA Start Date for Engineering Design - SD Gravity Sludge Thickeners	0	01-Jan-18 A		EPA Start Date for Engineering Design - SD Gravity Sludge Thickeners																											
SD42140	EPA Compliance Date for Engineering Design - SD Gravity Sludge Thickeners	0		18-Aug-18 A	EPA Compliance Date for Engineering Design - SD Gravity Sludge Thickeners																											
Permitting					14-Jul-16 A, Permitting																											
SD31070	FDEP Permit - SD Gravity Sludge Thickeners	167	29-Jan-16 A	14-Jul-16 A	FDEP Permit - SD Gravity Sludge Thickeners																											
Procurement					17-Aug-20, Procurement																											
SD31260	RDBS Sent to Procurement - SD Gravity Sludge Thickeners	0	29-Mar-16 A		RDBS Sent to Procurement - SD Gravity Sludge Thickeners																											
SD31470	Submit/Approve SBD Goals and Request to Advertise - SD Gravity Sludge Thickeners	113	29-Mar-16 A	19-Jul-16 A	Submit/Approve SBD Goals and Request to Advertise - SD Gravity Sludge Thickeners																											
SD31480	Advertise RDBS - SD Gravity Sludge Thickeners	0	20-Jul-16 A		Advertise RDBS - SD Gravity Sludge Thickeners																											
SD31490	Request for Qualifications - SD Gravity Sludge Thickeners	59	20-Jul-16 A	16-Sep-16 A	Request for Qualifications - SD Gravity Sludge Thickeners																											
SD31500	Qualifications Package Due - SD Gravity Sludge Thickeners	0	17-Sep-16 A		Qualifications Package Due - SD Gravity Sludge Thickeners																											
SD31510	Qualification Review Period - SD Gravity Sludge Thickeners	91	17-Sep-16 A	16-Dec-16 A	Qualification Review Period - SD Gravity Sludge Thickeners																											
SD31520	Shortlist Published - SD Gravity Sludge Thickeners	0		16-Dec-16 A	Shortlist Published - SD Gravity Sludge Thickeners																											
SD31530	Request for Proposals - SD Gravity Sludge Thickeners	101	24-Jan-17 A	04-May-17 A	Request for Proposals - SD Gravity Sludge Thickeners																											
SD31540	Proposals Due - SD Gravity Sludge Thickeners	0	05-May-17 A		Proposals Due - SD Gravity Sludge Thickeners																											
SD31550	Proposal Review Period & Oral Presentations - SD Gravity Sludge Thickeners	112	05-May-17 A	24-Aug-17 A	Proposal Review Period & Oral Presentations - SD Gravity Sludge Thickeners																											
SD31560	Award Recommendation - SD Gravity Sludge Thickeners	0	25-Aug-17 A		Award Recommendation - SD Gravity Sludge Thickeners																											

Activity ID	Activity Name	Original Duration	Start	Finish	2018 - 2026																																	
					2018				2019				2020				2021				2022				2023				2024				2025				2026	
					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				
SD31570	Contract Negotiations - SD Gravity Sludge Thickeners	53	25-Aug-17 A	17-Nov-17 A	Contract Negotiations - SD Gravity Sludge Thickeners																																	
SD31580	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Gravity Sludge Thickeners	79	18-Nov-17 A	01-May-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Gravity Sludge Thickeners																																	
SD44730	Bid Cancellation - SD Gravity Sludge Thickeners	0		30-May-18 A	Bid Cancellation - SD Gravity Sludge Thickeners																																	
SD44750	TA Re-Negotiation and Approval - SD Gravity Sludge Thickeners	60	11-May-18 A	23-Jul-18 A	TA Re-Negotiation and Approval - SD Gravity Sludge Thickeners																																	
SD44990	Receipt of Revised Scope of Services, Submit DRAFT Review item to ISD/SBD for future solicitation, review and comments	20	09-Aug-18 A	29-Aug-18 A	Receipt of Revised Scope of Services, Submit DRAFT Review item to ISD/SBD for future solicitation, review and comments																																	
SD45000	Submit approved Review Item to SBD, Receipt of SBD Worksheet, Request to Advertise; approval from WASD and OMB	30	19-Sep-18 A	08-Nov-18 A	Submit approved Review Item to SBD, Receipt of SBD Worksheet, Request to Advertise; approval from WASD and OMB																																	
SD45010	Project Advertisement (after signed RTA) - SD Gravity Sludge Thickeners	0		08-Nov-18 A	Project Advertisement (after signed RTA) - SD Gravity Sludge Thickeners																																	
SD45040	Select and Approve Competitive Selection Committee (CSC) - SD Gravity Sludge Thickeners	40	19-Sep-18 A	04-Jan-19 A	Select and Approve Competitive Selection Committee (CSC) - SD Gravity Sludge Thickeners																																	
SD45020	Step 1 - Submittal Due Date - SD Gravity Sludge Thickeners	40	09-Nov-18 A	11-Jan-19 A	Step 1 - Submittal Due Date - SD Gravity Sludge Thickeners																																	
SD45030	Step 1 - Qualifications Evaluation/Meeting - SD Gravity Sludge Thickeners	30	12-Jan-19 A	06-Mar-19 A	Step 1 - Qualifications Evaluation/Meeting - SD Gravity Sludge Thickeners																																	
SD45360	Issue DCP and Request for Proposals - SD Gravity Sludge Thickeners	15	12-Mar-19 A	19-Mar-19 A	Issue DCP and Request for Proposals - SD Gravity Sludge Thickeners																																	
SD45060	Step 2 Submittal Due Date - SD Gravity Sludge Thickeners	54	18-Mar-19 A	10-May-19 A	Step 2 Submittal Due Date - SD Gravity Sludge Thickeners																																	
SD45080	Step 2 Meeting - SD Gravity Sludge Thickeners	30	10-May-19 A	12-Jun-19 A	Step 2 Meeting - SD Gravity Sludge Thickeners																																	
SD45070	Step 2 Proposal Review and Evaluation - SD Gravity Sludge Thickeners	76	11-May-19 A	12-Jun-19 A	Step 2 Proposal Review and Evaluation - SD Gravity Sludge Thickeners																																	
SD45090	Negotiation Memo submitted / Approved by WASD Director - SD Gravity Sludge Thickeners	60	13-Jun-19 A	01-Jul-19 A	Negotiation Memo submitted / Approved by WASD Director - SD Gravity Sludge Thickeners																																	
SD45110	Negotiations Commence - Contract provided to Firm (1st meeting) - SD Gravity Sludge Thickeners	60	02-Jul-19 A	09-Aug-19 A	Negotiations Commence - Contract provided to Firm (1st meeting) - SD Gravity Sludge Thickeners																																	
SD43140	EPA Start Date for Procurement - SD Gravity Sludge Thickeners - SD Gravity Sludge Thickeners	0	19-Aug-19 A		EPA Start Date for Procurement - SD Gravity Sludge Thickeners - SD Gravity Sludge Thickeners																																	
SD45120	Negotiations Concluded and preparation of final Contract - SD Gravity Sludge Thickeners	162	10-Aug-19 A	26-Sep-19 A	Negotiations Concluded and preparation of final Contract - SD Gravity Sludge Thickeners																																	
SD45130	Contract Executed by Firm and obtain County Attorney, Risk Management and OMB signatures - SD Gravity Sludge Thickeners	60	27-Sep-19 A	13-Dec-19 A	Contract Executed by Firm and obtain County Attorney, Risk Management and OMB signatures - SD Gravity Sludge Thickeners																																	
SD45140	Submit Contract Award Recommendation/Contract for internal approvals - SD Gravity Sludge Thickeners	21	14-Dec-19 A	28-Feb-20 A	Submit Contract Award Recommendation/Contract for internal approvals - SD Gravity Sludge Thickeners																																	
SD45150	Submit/Approval of Item to Agenda Coordinator for committee & BCC Ratification - SD Gravity Sludge Thickeners	62	29-Feb-20 A	05-May-20 A	Submit/Approval of Item to Agenda Coordinator for committee & BCC Ratification - SD Gravity Sludge Thickeners																																	
SD10430	Procurement - SD Gravity Sludge Thickeners - SD Gravity Sludge Thickeners	60	29-Mar-16 A	03-Jul-20	Procurement - SD Gravity Sludge Thickeners - SD Gravity Sludge Thickeners																																	
SD44710	Repackage and Rebid Project - SD Gravity Sludge Thickeners	739	09-Aug-18 A	03-Jul-20	Repackage and Rebid Project - SD Gravity Sludge Thickeners																																	
SD45160	Issue NTP - SD Gravity Sludge Thickeners	59	06-May-20 A	03-Jul-20	Issue NTP - SD Gravity Sludge Thickeners																																	
SD42160	EPA Compliance Date for Procurement - SD Gravity Sludge Thickeners	0		17-Aug-20*	EPA Compliance Date for Procurement - SD Gravity Sludge Thickeners																																	
Design-Build		1029	06-Jul-20	30-Apr-23	Design-Build																																	
SD31590	Design-Builder NTP - SD Gravity Sludge Thickeners	0	06-Jul-20		Design-Builder NTP - SD Gravity Sludge Thickeners																																	
SD43150	EPA Start Date for Construction - SD Gravity Sludge Thickeners	0	18-Aug-20*		EPA Start Date for Construction - SD Gravity Sludge Thickeners																																	
SD31090	Final Engineering by Design-Builder - SD Gravity Sludge Thickeners	300	06-Jul-20	01-May-21	Final Engineering by Design-Builder - SD Gravity Sludge Thickeners																																	
SD31100	AHJ Permit Review - SD Gravity Sludge Thickeners	180	02-Jan-21	30-Jun-21	AHJ Permit Review - SD Gravity Sludge Thickeners																																	
SD43860	Design-Builder Contract Duration - SD Gravity Sludge Thickeners	909	06-Jul-20	31-Dec-22	Design-Builder Contract Duration - SD Gravity Sludge Thickeners																																	
SD10500	Construction - SD Gravity Sludge Thickeners	729	02-Jan-21	31-Dec-22	Construction - SD Gravity Sludge Thickeners																																	
SD44810	Commissioning - SD Gravity Sludge Thickeners	30	02-Dec-22	31-Dec-22	Commissioning - SD Gravity Sludge Thickeners																																	
SD10600	Substantial Completion (CD Compliance Date 1/06/23) - SD Gravity Sludge Thickeners	0		31-Dec-22*	Substantial Completion (CD Compliance Date 1/06/23) - SD Gravity Sludge Thickeners																																	
SD42170	EPA Compliance Date for Construction - SD Gravity Sludge Thickeners	0		06-Jan-23*	EPA Compliance Date for Construction - SD Gravity Sludge Thickeners																																	
SD40050	Project Closeout - SD Gravity Sludge Thickeners	120	01-Jan-23	30-Apr-23*	Project Closeout - SD Gravity Sludge Thickeners																																	
Project Administration		2380	03-Jul-14 A	30-Apr-23	Project Administration																																	
SD35070	WASD Project Administration - SD Gravity Sludge Thickeners	2380	03-Jul-14 A	30-Apr-23	WASD Project Administration - SD Gravity Sludge Thickeners																																	
1.07 Digesters and Control Building		3480	30-Jun-14 A	08-Jan-24	1.07 Digesters and Control Building																																	
Pre-Design		604	18-Feb-15 A	14-Oct-16 A	Pre-Design																																	
SD20016	Negotiate Scope and Cost with MWH - SD Digesters & Control Building	84	31-Mar-15 A	22-Jun-15 A	Negotiate Scope and Cost with MWH - SD Digesters & Control Building																																	
SD42900	Negotiate Scope and Cost with MWH for SS 7 & 8 - SD Sub-Stations 7 & 8 (Non-Consent Decree)	605	18-Feb-15 A	14-Oct-16 A	Negotiate Scope and Cost with MWH for SS 7 & 8 - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																	
Engineering Design		1039	30-Jun-14 A	04-May-17 A	Engineering Design																																	
SD43160	EPA Start Date for Engineering Design - SD Digesters & Control Building	0	03-Jul-14 A		EPA Start Date for Engineering Design - SD Digesters & Control Building																																	
SD20006	Basis of Design Report (BODR) - SD Digesters & Control Building	313	30-Jun-14 A	08-May-15 A	Basis of Design Report (BODR) - SD Digesters & Control Building																																	
SD20770	Review/Revise BODR - SD Effluent Pump Station Building Improvements	45	09-May-15 A	22-Jun-15 A	Review/Revise BODR - SD Effluent Pump Station Building Improvements																																	
SD20026	30% Design Submittal - SD Digesters & Control Building	127	23-Jun-15 A	27-Oct-15 A	30% Design Submittal - SD Digesters & Control Building																																	
SD20036	30% Design Review - SD Digesters & Control Building	24	28-Oct-15 A	20-Nov-15 A	30% Design Review - SD Digesters & Control Building																																	
SD20046	60% Design Submittal - SD Digesters & Control Building	110	21-Nov-15 A	09-Mar-16 A	60% Design Submittal - SD Digesters & Control Building																																	
SD20056	60% Design Review - SD Digesters & Control Building	13	10-Mar-16 A	22-Mar-16 A	60% Design Review - SD Digesters & Control Building																																	
SD20066	100% Design Submittal - SD Digesters & Control Building	86	23-Mar-16 A	16-Jun-16 A	100% Design Submittal - SD Digesters & Control Building																																	
SD10010	Engineering Design - SD Digesters & Control Building	795	30-Jun-14 A	01-Sep-16 A	Engineering Design - SD Digesters & Control Building																																	
SD40160	100% Design Review/Permit Ready Submittal - SD Digesters & Control Building	77	17-Jun-16 A	01-Sep-16 A	100% Design Review/Permit Ready Submittal - SD Digesters & Control Building																																	
SD42180	EPA Compliance Date for Engineering Design - SD Digesters & Control Building	0		30-Sep-16 A	EPA Compliance Date for Engineering Design - SD Digesters & Control Building																																	
SD41520	60% Design Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)	60	06-Dec-16 A	03-Feb-17 A	60% Design Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																	
SD41800	60% Design Review - SD Sub-Stations 7 & 8 (Non-Consent Decree)	7	04-Feb-17 A	10-Feb-17 A	60% Design Review - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																	
SD42430	100% Design Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)	49	11-Feb-17 A	31-Mar-17 A	100% Design Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																	
SD43820	100% Design Review - SD Sub-Stations 7 & 8 (Non-Consent Decree)	10	01-Apr-17 A	10-Apr-17 A	100% Design Review - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																	
SD42440	100% Permit Ready Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)	24	11-Apr-17 A	04-May-17 A	100% Permit Ready Submittal - SD Sub-Stations 7 & 8 (Non-Consent Decree)																																	
Permitting		1069	27-Jul-14 A	30-Jun-17 A	Permitting																																	
SD43170	EPA Start Date for Permitting - SD Digesters & Control Building	0	27-Jul-14 A		EPA Start Date for Permitting - SD Digesters & Control Building																																	
SD41860	FDEP Permit - SD Digesters & Control Building	299	26-Oct-15 A	19-Aug-16 A	FDEP Permit - SD Digesters & Control Building																																	
SD10040	Permitting - SD Digesters & Control Building	569	26-Oct-15 A	16-May-17 A	Permitting - SD Digesters & Control Building																																	
SD41870	RER DERM Permit - SD Digesters & Control Building	259	31-Aug-16 A	16-May-17 A	RER DERM Permit - SD Digesters & Control Building																																	
SD41880	MDC Building Department Permit - SD Digesters & Control Building	259	31-Aug-16 A	16-May-17 A	MDC Building Department Permit - SD Digesters & Control Building																																	
SD42870	RER DERM Permit - SD Substations 7 & 8 (Non-Consent Decree)	12	05-May-17 A	16-May-17 A	RER DERM Permit - SD Substations 7 & 8 (Non-Consent Decree)																																	
SD42880	MDC Building Department Permit - SD Substations 7 & 8 (Non-Consent Decree)	12	05-May-17 A	16-May-17 A	MDC Building Department Permit - SD Substations 7 & 8 (Non-Consent Decree)																																	
SD42190	EPA Compliance Date for Permitting - SD Digesters & Control Building	0		30-Jun-17 A	EPA Compliance Date for Permitting - SD Digesters & Control Building																																	
Procurement		834	25-Aug-17 A	17-Apr-20 A	Procurement																																	
SD43180	EPA Start Date for Procurement - SD Digesters & Control Building**	0	01-Sep-17 A		EPA Start Date for Procurement - SD Digesters & Control Building**																																	
SD43570	GMOU submittal and approval - SD Digesters & Control Building	23	25-Aug-17 A	16-Sep-17 A	GMOU submittal and approval - SD Digesters & Control Building																																	
SD43450	Internal Bid Package Review - SD Digesters & Control Building	62	29-Aug-17 A	18-Oct-17 A	Internal Bid Package Review - SD Digesters & Control Building																																	
SD30320	Design Documents Sent to Procurement - SD Digesters & Control Building	0	19-Oct-17 A		Design Documents Sent to Procurement - SD Digesters & Control Building																																	
SD30330	Submit/Approve SBD Goals and Request to Advertise - SD Digesters & Control Building	60	19-Oct-17 A	11-Jan-18 A	Submit/Approve SBD Goals and Request to Advertise - SD Digesters & Control Building																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019				2020				2021				2022				2023				2024				2025				2026	
					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		
SD44720	Repackage and Rebid Project - SD Dewatering Facilities	739	09-Aug-18 A	03-Jul-20	Repackage and Rebid Project - SD Dewatering Facilities																															
SD45310	Issue NTP - SD Dewatering Facilities	59	06-May-20 A	03-Jul-20	Issue NTP - SD Dewatering Facilities																															
Design-Build		1916	10-Jan-18 A	30-Apr-23	30-Apr-23, Design-Build																															
SD43230	EPA Start Date for Construction - SD Dewatering Facilities	0	10-Jan-18 A		EPA Start Date for Construction - SD Dewatering Facilities																															
SD31730	Design-Builder NTP - SD Dewatering Facilities	0	06-Jul-20		Design-Builder NTP - SD Dewatering Facilities																															
SD20010	Final Engineering by Design-Builder - SD Dewatering Facilities	300	06-Jul-20	01-May-21	Final Engineering by Design-Builder - SD Dewatering Facilities																															
SD20080	AHJ Permit Review - SD Dewatering Facilities	180	02-Jan-21	30-Jun-21	AHJ Permit Review - SD Dewatering Facilities																															
SD43870	Design-Builder Contract Duration - SD Dewatering Facilities	909	06-Jul-20	31-Dec-22	Design-Builder Contract Duration - SD Dewatering Facilities																															
SD10210	Construction - SD Dewatering Facilities	729	02-Jan-21	31-Dec-22	Construction - SD Dewatering Facilities																															
SD44830	Commissioning - SD Dewatering Facilities	30	02-Dec-22	31-Dec-22	Commissioning - SD Dewatering Facilities																															
SD10450	Substantial Completion (CD Compliance Date 1/6/23) - SD Dewatering Facilities	0		31-Dec-22*	Substantial Completion (CD Compliance Date 1/6/23) - SD Dewatering Facilities																															
SD42250	EPA Compliance Date for Construction - SD Dewatering Facilities	0		06-Jan-23*	EPA Compliance Date for Construction - SD Dewatering Facilities																															
SD40070	Project Closeout - SD Dewatering Facilities	120	01-Jan-23	30-Apr-23*	Project Closeout - SD Dewatering Facilities																															
Project Administration		2096	13-Apr-15 A	30-Apr-23	30-Apr-23, Project Administration																															
SD35090	WASD Project Administration - SD Dewatering Facilities	2096	13-Apr-15 A	30-Apr-23	WASD Project Administration - SD Dewatering Facilities																															
1.09 FOG Removal Facility		1861	08-Jul-14 A	15-Aug-20	15-Aug-20, 1.09 FOG Removal Facility																															
Engineering Design		588	08-Jul-14 A	16-Feb-16 A	16-Feb-16 A, Engineering Design																															
Permitting		353	10-Nov-15 A	28-Oct-16 A	28-Oct-16 A, Permitting																															
Procurement		788	03-May-15 A	29-Jun-17 A	29-Jun-17 A, Procurement																															
Construction		773	30-Jun-17 A	15-Aug-20	15-Aug-20, Construction																															
SD10123	Contractor Notice to Proceed (NTP) - SD FOG Removal Facility	0	30-Jun-17 A		Contractor Notice to Proceed (NTP) - SD FOG Removal Facility																															
SD43270	EPA Start Date for Construction - SD FOG Removal Facility	0	31-Jul-17 A		EPA Start Date for Construction - SD FOG Removal Facility																															
SD10130	Construction - SD FOG Removal Facility	329	30-Jun-17 A	26-Mar-19 A	Construction - SD FOG Removal Facility																															
SD44880	Commissioning (Part 1) - SD FOG Removal Facility	44	13-Feb-19 A	26-Mar-19 A	Commissioning (Part 1) - SD FOG Removal Facility																															
SD44840	Commissioning (Part 2) - SD FOG Removal Facility	30	27-Feb-19 A	26-Mar-19 A	Commissioning (Part 2) - SD FOG Removal Facility																															
SD10270	Substantial Completion (CD Compliance Date 5/24/19) - SD FOG Removal Facility	0		26-Mar-19 A	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 A	EPA Compliance Date for Construction - SD FOG Removal Facility																															
SD40080	Project Closeout - SD FOG Removal Facility	105	27-Mar-19 A	15-Aug-20*	Project Closeout - SD FOG Removal Facility																															
Project Administration		1507	08-Jul-14 A	15-Aug-20	15-Aug-20, Project Administration																															
SD35100	WASD Project Administration - SD FOG Removal Facility	1507	08-Jul-14 A	15-Aug-20	WASD Project Administration - SD FOG Removal Facility																															
1.10 Odor Control		1900	25-Jan-18 A	25-Apr-23	25-Apr-23, 1.10 Odor Control																															
Pre-Design		381	25-Jan-18 A	31-Jan-19 A	31-Jan-19 A, Pre-Design																															
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	28-Nov-18 A	31-Jan-19 A	Pre-Design (Remaining Scope of Work) - SD Odor Control																															
Engineering Design		508	14-Sep-18 A	17-Feb-20 A	17-Feb-20 A, Engineering Design																															
SD43280	EPA Start Date for Engineering Design - SD Odor Control	0	01-Dec-18 A		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	16-Jan-19 A	BODR Review Period & Final BODR - SD Odor Control																															
SD20650	30% Design Submittal - SD Odor Control	60	04-Feb-19 A	02-Apr-19 A	30% Design Submittal - SD Odor Control																															
SD20660	30% Design Review - SD Odor Control	10	03-Apr-19 A	12-Apr-19 A	30% Design Review - SD Odor Control																															
SD42300	EPA Compliance Date for Engineering Design - SD Odor Control	0		27-Jun-19 A	EPA Compliance Date for Engineering Design - SD Odor Control																															
SD20670	60% Design Submittal - SD Odor Control	90	13-Apr-19 A	11-Jul-19 A	60% Design Submittal - SD Odor Control																															
SD20680	60% Design Review - SD Odor Control	12	12-Jul-19 A	02-Aug-19 A	60% Design Review - SD Odor Control																															
SD20690	100% Design Submittal - SD Odor Control	48	03-Aug-19 A	24-Sep-19 A	100% Design Submittal - SD Odor Control																															
SD10360	Engineering Design - SD Odor Control	470	14-Sep-18 A	08-Nov-19 A	Engineering Design - SD Odor Control																															
SD40180	100% Design Review/Permit Ready Submittal - SD Odor Control	41	25-Sep-19 A	08-Nov-19 A	100% Design Review/Permit Ready Submittal - SD Odor Control																															
SD45390	100% Bid Ready Submittal - SD Odor Control	20	29-Jan-20 A	17-Feb-20 A	100% Bid Ready Submittal - SD Odor Control																															
Permitting		488	20-Feb-19 A	31-Jul-20	31-Jul-20, Permitting																															
SD43290	EPA Start Date for Permitting - SD Odor Control	0	28-Jun-19 A		EPA Start Date for Permitting - SD Odor Control																															
SD45430	FDEP Permit - SD Odor Control	60	20-Feb-19 A	06-Sep-19 A	FDEP Permit - SD Odor Control																															
SD42310	EPA Compliance Date for Permitting - SD Odor Control	0		26-Jun-20 A	EPA Compliance Date for Permitting - SD Odor Control																															
SD10400	Permitting - SD Odor Control	180	21-Nov-19 A	31-Jul-20	Permitting - SD Odor Control																															
Procurement		466	18-Feb-20 A	26-Jun-21	26-Jun-21, Procurement																															
SD43460	Internal Bid Package Review - SD Odor Control	13	18-Feb-20 A	01-Mar-20 A	Internal Bid Package Review - SD Odor Control																															
SD30730	Design Documents Sent to Procurement - SD Odor Control	0	02-Mar-20 A		Design Documents Sent to Procurement - SD Odor Control																															
SD30740	Submit/Approve SBD Goals and Request to Advertise - SD Odor Control	60	02-Mar-20 A	03-Jun-20 A	Submit/Approve SBD Goals and Request to Advertise - SD Odor Control																															
SD30750	Advertise Bid Package - SD Odor Control	0	04-Jun-20 A		Advertise Bid Package - SD Odor Control																															
SD43300	EPA Start Date for Procurement - SD Odor Control	0	27-Jun-20 A		EPA Start Date for Procurement - SD Odor Control																															
SD30760	Bid Solicitation Period - SD Odor Control	60	04-Jun-20 A	16-Jul-20	Bid Solicitation Period - SD Odor Control																															
SD30770	Bids Due - SD Odor Control	0	17-Jul-20		Bids Due - SD Odor Control																															
SD30780	Bid Review Period - SD Odor Control	47	17-Jul-20	01-Sep-20	Bid Review Period - SD Odor Control																															
SD30790	Award Recommendation - SD Odor Control	0		01-Sep-20	Award Recommendation - SD Odor Control																															
SD10480	Procurement - SD Odor Control	270	02-Mar-20 A	30-Dec-20	Procurement - SD Odor Control																															
SD30800	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Odor Control	120	02-Sep-20	30-Dec-20	Final Approvals (BCC, Mayor, Risk Mgmt.) - SD Odor Control																															
SD42320	EPA Compliance Date for Procurement - SD Odor Control	0		26-Jun-21*	EPA Compliance Date for Procurement - SD Odor Control																															
Construction		846	31-Dec-20	25-Apr-23	25-Apr-23, Construction																															
SD10538	Contractor Notice to Proceed (NTP) - SD Odor Control	0	31-Dec-20		Contractor Notice to Proceed (NTP) - SD Odor Control																															
SD43310	EPA Start Date for Construction - SD Odor Control	0	27-Jun-21*		EPA Start Date for Construction - SD Odor Control																															
SD10540	Construction - SD Odor Control	565	31-Dec-20	18-Jul-22	Construction - SD Odor Control																															
SD44850	Commissioning - SD Odor Control	30	19-Jun-22	18-Jul-22	Commissioning - SD Odor Control																															
SD10610	Substantial Completion (CD Compliance Date 4/25/23) - SD Odor Control	0		18-Jul-22*	Substantial Completion (CD Compliance Date 4/25/23) - SD Odor Control																															
SD40090	Project Closeout - SD Odor Control	90	19-Jul-22	16-Oct-22*	Project Closeout - SD Odor Control																															
SD42330	EPA Compliance Date for Construction - SD Odor Control	0		25-Apr-23*	EPA Compliance Date for Construction - SD Odor Control																															
Project Administration		1687	15-Sep-18 A	16-Oct-22	16-Oct-22, Project Administration																															
SD35110	WASD Project Administration - SD Odor Control	1687	15-Sep-18 A	16-Oct-22	WASD Project Administration - SD Odor Control																															

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					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
1.11 General Electrical		2054	25-Oct-16 A	09-Jun-22	09-Jun-22, 1.11 General Electrical																																			
Engineering Design		482	25-Oct-16 A	14-Feb-19 A	14-Feb-19 A, Engineering Design																																			
SD43320	EPA Start Date for Engineering Design - SD General Electrical	0	31-Dec-16 A		Engineering Design - SD General Electrical																																			
SD42340	EPA Compliance Date for Engineering Design - SD General Electrical	0		31-Dec-17 A	EPA Compliance Date for Engineering Design - SD General Electrical																																			
SD10180	Engineering Design (Summary) - SD General Electrical	0	25-Oct-16 A	14-Feb-19 A	Engineering Design (Summary) - SD General Electrical																																			
Permitting		694	30-Jun-17 A	25-May-19 A	25-May-19 A, Permitting																																			
SD43330	EPA Start Date for Permitting - SD General Electrical	0	30-Jun-17 A		Date for Permitting - SD General Electrical																																			
SD42350	EPA Compliance Date for Permitting - SD General Electrical**	0		28-May-18 A	EPA Compliance Date for Permitting - SD General Electrical**																																			
SD10230	Permitting (Summary) - SD General Electrical	0	07-May-18 A	25-May-19 A	Permitting (Summary) - SD General Electrical																																			
Procurement		626	29-May-18 A	23-Aug-20	23-Aug-20, Procurement																																			
SD43340	EPA Start Date for Procurement - SD General Electrical	0	29-May-18 A		EPA Start Date for Procurement - SD General Electrical																																			
SD42360	EPA Compliance Date for Procurement - SD General Electrical	0		28-May-19 A	EPA Compliance Date for Procurement - SD General Electrical																																			
SD10310	Procurement (Summary) - SD General Electrical	169	24-Aug-18 A	23-Aug-20	Procurement (Summary) - SD General Electrical																																			
Construction		1016	29-May-19 A	11-Mar-22	11-Mar-22, Construction																																			
SD43350	EPA Start Date for Construction - SD General Electrical	0	29-May-19 A		EPA Start Date for Construction - SD General Electrical																																			
SD42370	EPA Compliance Date for Construction - SD General Electrical	0		26-Mar-21*	EPA Compliance Date for Construction - SD General Electrical																																			
SD10390	Construction (Summary) - SD General Electrical	725	03-Oct-19 A	11-Mar-22	Construction (Summary) - SD General Electrical																																			
SD10510	Substantial Completion (CD Compliance Date 3/26/21) - SD General Electrical	0		11-Mar-22*	Substantial Completion (CD Compliance Date 3/26/21) - SD General Electrical																																			
Project Administration		769	25-Oct-16 A	11-Mar-22	11-Mar-22, Project Administration																																			
SD35120	WASD Project Administration - SD General Electric	769	25-Oct-16 A	11-Mar-22	WASD Project Administration - SD General Electric																																			
1.11 (1.1) SDWWTP Substations 9-12		2054	25-Oct-16 A	09-Jun-22	09-Jun-22, 1.11 (1.1) SDWWTP Substations 9-12																																			
Engineering Design		320	15-Jun-17 A	27-Apr-18 A	27-Apr-18 A, Engineering Design																																			
SD44220	Basis of Design Report (BODR) - Replace SS 9, 10, 11 & 12	107	15-Jun-17 A	29-Sep-17 A	Basis of Design Report (BODR) - Replace SS 9, 10, 11 & 12																																			
SD44230	BODR Review Period - Replace SS 9, 10, 11 & 12	6	30-Sep-17 A	05-Oct-17 A	BODR Review Period - Replace SS 9, 10, 11 & 12																																			
SD44240	60% Design Submittal - Replace SS 9, 10, 11 & 12	34	06-Oct-17 A	08-Nov-17 A	60% Design Submittal - Replace SS 9, 10, 11 & 12																																			
SD44250	60% Design Review - Replace SS 9, 10, 11 & 12	7	09-Nov-17 A	14-Nov-17 A	60% Design Review - Replace SS 9, 10, 11 & 12																																			
SD44260	100% Design Submittal - Replace SS 9, 10, 11 & 12	48	15-Nov-17 A	03-Jan-18 A	100% Design Submittal - Replace SS 9, 10, 11 & 12																																			
SD40460	Engineering Design - Replace SS 9, 10, 11 & 12	230	15-Jun-17 A	27-Apr-18 A	Engineering Design - Replace SS 9, 10, 11 & 12																																			
SD44270	100% Design Review/Permit Ready Submittal - Replace SS 9, 10, 11 & 12	87	04-Jan-18 A	27-Apr-18 A	100% Design Review/Permit Ready Submittal - Replace SS 9, 10, 11 & 12																																			
Permitting		90	07-May-18 A	25-Sep-18 A	25-Sep-18 A, Permitting																																			
SD44900	DERM Permit - Replace SS 9, 10, 11 & 12	90	07-May-18 A	28-Jun-18 A	DERM Permit - Replace SS 9, 10, 11 & 12																																			
SD43640	Permitting - Replace SS 9, 10, 11 & 12	90	07-May-18 A	25-Sep-18 A	Permitting - Replace SS 9, 10, 11 & 12																																			
SD44890	MDC Building Dept. Permit - Replace SS 9, 10, 11 & 12	90	07-May-18 A	25-Sep-18 A	MDC Building Dept. Permit - Replace SS 9, 10, 11 & 12																																			
Procurement		711	17-Aug-18 A	19-Jul-20	19-Jul-20, Procurement																																			
SD44400	Internal Bid Package Review - Replace SS 9, 10, 11 & 12	3	17-Aug-18 A	24-Aug-18 A	Internal Bid Package Review - Replace SS 9, 10, 11 & 12																																			
SD44410	Design Documents Sent to Procurement - Replace SS 9, 10, 11 & 12	0	24-Aug-18 A		Design Documents Sent to Procurement - Replace SS 9, 10, 11 & 12																																			
SD44420	Submit/Approve SBD Goals and Request to Advertise - Replace SS 9, 10, 11 & 12	60	24-Aug-18 A	16-Oct-18 A	Submit/Approve SBD Goals and Request to Advertise - Replace SS 9, 10, 11 & 12																																			
SD44430	Advertise Bid Package - Replace SS 9, 10, 11 & 12	0	17-Oct-18 A		Advertise Bid Package - Replace SS 9, 10, 11 & 12																																			
SD44440	Bid Solicitation Period - Replace SS 9, 10, 11 & 12	45	17-Oct-18 A	05-Dec-18 A	Bid Solicitation Period - Replace SS 9, 10, 11 & 12																																			
SD44600	Bids Due - Replace SS 9, 10, 11 & 12	0		05-Dec-18 A	Bids Due - Replace SS 9, 10, 11 & 12																																			
SD44450	Bid Review Period - Replace SS 9, 10, 11 & 12	38	06-Dec-18 A	28-May-19 A	Bid Review Period - Replace SS 9, 10, 11 & 12																																			
SD45460	Bids Rejected - Replace SS 9, 10, 11 & 12	0		28-May-19 A	Bids Rejected - Replace SS 9, 10, 11 & 12																																			
SD45470	Re-Advertise Bid Package - Replace SS 9, 10, 11 & 12	0	26-Sep-19 A		Re-Advertise Bid Package - Replace SS 9, 10, 11 & 12																																			
SD45490	Bid Solicitation Period (Re-bid) - Replace SS 9, 10, 11 & 12	30	26-Sep-19 A	10-Jan-20 A	Bid Solicitation Period (Re-bid) - Replace SS 9, 10, 11 & 12																																			
SD45510	Bids Due (Re-bid) - Replace SS 9, 10, 11 & 12	0		10-Jan-20 A	Bids Due (Re-bid) - Replace SS 9, 10, 11 & 12																																			
SD45480	Bid Review Period (Re-bid) - Replace SS 9, 10, 11 & 12	30	11-Jan-20 A	22-Jun-20 A	Bid Review Period (Re-bid) - Replace SS 9, 10, 11 & 12																																			
SD44460	Award Recommendation - Replace SS 9, 10, 11 & 12	0		22-Jun-20 A	Award Recommendation - Replace SS 9, 10, 11 & 12																																			
SD43650	Procurement - Replace SS 9, 10, 11 & 12	195	24-Aug-18 A	19-Jul-20	Procurement - Replace SS 9, 10, 11 & 12																																			
SD44470	Final Approvals (BCC, Mayor, Risk Mgmt.) - Replace SS 9, 10, 11 & 12	37	23-Jun-20 A	19-Jul-20	Final Approvals (BCC, Mayor, Risk Mgmt.) - Replace SS 9, 10, 11 & 12																																			
Construction		690	20-Jul-20	09-Jun-22	09-Jun-22, Construction																																			
SD44480	Contractor Notice to Proceed (NTP) - Replace SS 9, 10, 11 & 12	0	20-Jul-20		Contractor Notice to Proceed (NTP) - Replace SS 9, 10, 11 & 12																																			
SD43660	Construction - Replace SS 9, 10, 11 & 12	600	20-Jul-20	11-Mar-22	Construction - Replace SS 9, 10, 11 & 12																																			
SD44860	Commissioning - Replace SS 9, 10, 11 & 12	30	10-Feb-22	11-Mar-22	Commissioning - Replace SS 9, 10, 11 & 12																																			
SD44490	Substantial Completion (CD Compliance Date 3/26/21) - Replace SS 9, 10, 11 & 12	0		11-Mar-22*	Substantial Completion (CD Compliance Date 3/26/21) - Replace SS 9, 10, 11 & 12																																			
SD43590	Project Closeout - Replace SS 9, 10, 11 & 12	90	12-Mar-22	09-Jun-22*	Project Closeout - Replace SS 9, 10, 11 & 12																																			
Project Administration		1556	25-Oct-16 A	09-Jun-22	09-Jun-22, Project Administration																																			
SD44160	WASD Project Administration - Replace SS 9, 10, 11 & 12	1556	25-Oct-16 A	09-Jun-22	WASD Project Administration - Replace SS 9, 10, 11 & 12																																			
1.11 (1.2) SDWWTP Generator Repairs		1827	25-Oct-16 A	25-Oct-21	25-Oct-21, 1.11 (1.2) SDWWTP Generator Repairs																																			
Engineering Design		948	25-Oct-16 A	14-Feb-19 A	14-Feb-19 A, Engineering Design																																			
SD40410	Engineering Design - Generator Repairs	158	25-Oct-16 A	31-Mar-17 A	Engineering Design - Generator Repairs																																			
SD44910	50% Design Submittal - Generator Repairs	90	14-May-18 A	13-Aug-18 A	50% Design Submittal - Generator Repairs																																			
SD44920	90% Design Submittal - Generator Repairs	7	14-Aug-18 A	29-Oct-18 A	90% Design Submittal - Generator Repairs																																			
SD44980	Develop Project Specifications for Remote Radiator - Generator Repairs	120	14-May-18 A	13-Nov-18 A	Develop Project Specifications for Remote Radiator - Generator Repairs																																			
SD44930	100% Design Submittal - Generator Repairs	98	30-Oct-18 A	05-Feb-19 A	100% Design Submittal - Generator Repairs																																			
SD44640	Engineering Re-Design (Technical Specs & Drawings) - Generator Repairs	365	14-May-18 A	14-Feb-19 A	Engineering Re-Design (Technical Specs & Drawings) - Generator Repairs																																			
SD44940	100% Design Review/Permit Ready Submittal - Generator Repairs	15	31-Jan-19 A	14-Feb-19 A	100% Design Review/Permit Ready Submittal - Generator Repairs																																			
Permitting		82	30-Jan-19 A	25-May-19 A	25-May-19 A, Permitting																																			
SD44950	Permitting - Generator Repairs	82	30-Jan-19 A	25-May-19 A	Permitting - Generator Repairs																																			
Procurement		279	21-Sep-18 A	23-Aug-20	23-Aug-20, Procurement																																			
SD44960	Pre-Purchase Remote Radiators - Generator Repairs	48	21-Sep-18 A	06-Nov-18 A	Pre-Purchase Remote Radiators - Generator Repairs																																			
SD44650	Award Purchase Order - Generator Repairs	0		06-Nov-18 A	Award Purchase Order - Generator Repairs																																			
SD44970	Fabricate and Deliver Remote Radiators (Pre-Purchase) - Generator Repairs	253	07-Nov-18 A	23-Aug-20	Fabricate and Deliver Remote Radiators (Pre-Purchase) - Generator Repairs																																			
Construction		428	24-Aug-20	25-Oct-21	25-Oct-21, Construction																																			
SD44660	Contractor Notice to Proceed (NTP) - Generator Repairs	0	24-Aug-20		Contractor Notice to Proceed (NTP) - Generator Repairs																																			
SD44670	Construction - Generator Repairs	368	24-Aug-20	26-Aug-21	Construction - Generator Repairs																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																											
					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		
Permitting					30-Nov-19 A, Permitting																											
CD82350	EPA Start Date for Permitting - CD Misc. Elect. Improvements	0	18-Dec-15 A	30-Nov-19 A	EPA Start Date for Permitting - CD Misc. Elect. Improvements																											
CD42430	EPA Compliance Date for Permitting - CD Misc. Elect. Improvements	0	21-Jun-17 A	20-Jun-18 A	EPA Compliance Date for Permitting - CD Misc. Elect. Improvements																											
CD10330	Permitting - CD Misc. Elect. Improvements	704	18-Dec-15 A	30-Nov-19 A	Permitting - CD Misc. Elect. Improvements																											
Procurement					10-May-20 A, Procurement																											
CD82360	EPA Start Date for Procurement - CD Misc. Elect. Improvements	0	24-Jul-15 A	10-May-20 A	EPA Start Date for Procurement - CD Misc. Elect. Improvements																											
CD42440	EPA Compliance Date for Procurement - CD Misc. Elect. Improvements	0	21-Jun-18 A	20-Jun-19 A	EPA Compliance Date for Procurement - CD Misc. Elect. Improvements																											
CD10560	Procurement - CD Misc. Elect. Improvements	1197	24-Jul-15 A	10-May-20 A	Procurement - CD Misc. Elect. Improvements																											
Construction					14-Jun-21, Construction																											
CD82370	EPA Start Date for Construction - CD Misc. Elect. Improvements	0	29-Jan-16 A	14-Jun-21	EPA Start Date for Construction - CD Misc. Elect. Improvements																											
CD10810	Construction - CD Misc. Elect. Improvements	1261	29-Jan-16 A	14-Jun-21	Construction - CD Misc. Elect. Improvements																											
CD10960	Substantial Completion (CD Compliance Date 6/14/21) - CD Misc. Elect. Improvements	0	21-Jun-19 A	14-Jun-21*	Substantial Completion (CD Compliance Date 6/14/21) - CD Misc. Elect. Improvements																											
CD42450	EPA Compliance Date for Construction - CD Misc. Elect. Improvements	0	29-Jan-16 A	14-Jun-21*	EPA Compliance Date for Construction - CD Misc. Elect. Improvements																											
Project Administration					16-Nov-21, Project Administration																											
CD33930	WASD Project Administration - CD Misc. Elect. Improvements	1618	01-Oct-15 A	16-Nov-21	WASD Project Administration - CD Misc. Elect. Improvements																											
2.01 (1) Substations 1 & 2					05-May-16 A																											
2.01 (2) Substations 3, 4A, 4B, 5 & 6 (Project 2.27(2))					23-Sep-19 A, 2.01 (2) Substations 3, 4A, 4B, 5 & 6 (Project 2.27(2))																											
2.01 (3) Substations 9 & 10 (Project 2.10(1))					04-Nov-20, Child Project Deleted (Scope considered under CD 2.27(2))																											
Engineering Design					01-Feb-17 A, Engineering Design																											
CD40850	Engineering Design Substations 9 & 10 (2.10) - CD Misc. Elect. Improvements	327	11-Mar-16 A	01-Feb-17 A	Engineering Design Substations 9 & 10 (2.10) - CD Misc. Elect. Improvements																											
Permitting					22-May-18 A, Permitting																											
CD40930	Permitting Substations 9 & 10 (2.10) - CD Misc. Elect. Improvements	476	11-Mar-16 A	22-May-18 A	Permitting Substations 9 & 10 (2.10) - CD Misc. Elect. Improvements																											
Procurement					29-Nov-18 A, Procurement																											
CD41010	Procurement Substations 9 & 10 (2.10) - CD Misc. Elect. Improvements	270	27-Nov-17 A	29-Nov-18 A	Procurement Substations 9 & 10 (2.10) - CD Misc. Elect. Improvements																											
Construction					04-Nov-20, Construction																											
CD40760	Construction Substations 9 & 10 (2.10) - CD Misc. Elect. Improvements	570	06-Dec-18 A	04-Nov-20	Construction Substations 9 & 10 (2.10) - CD Misc. Elect. Improvements																											
Project Administration					04-Nov-20, Project Administration																											
CD85050	WASD Project Administration - 9 & 10 (2.10) - CD Misc. Elect. Improvements	1226	11-Mar-16 A	04-Nov-20	WASD Project Administration - 9 & 10 (2.10) - CD Misc. Elect. Improvements																											
2.01 (4) Substations 11 & 12 (Project 2.11)					05-Dec-20, 2.01 (4) Substations 11 & 12 (Project 2.11)																											
Engineering Design					16-Jun-17 A, Engineering Design																											
CD40860	Engineering Design Substations 11 & 12 (2.11) - CD Misc. Elect. Improvements	296	24-Aug-16 A	16-Jun-17 A	Engineering Design Substations 11 & 12 (2.11) - CD Misc. Elect. Improvements																											
Permitting					27-Feb-18 A, Permitting																											
CD40940	Permitting Substations 11 & 12 (2.11) - CD Misc. Elect. Improvements	152	22-Jun-17 A	27-Feb-18 A	Permitting Substations 11 & 12 (2.11) - CD Misc. Elect. Improvements																											
Procurement					04-Aug-19 A, Procurement																											
CD41020	Procurement Substations 11 & 12 (2.11) - CD Misc. Elect. Improvements	236	07-Mar-18 A	04-Aug-19 A	Procurement Substations 11 & 12 (2.11) - CD Misc. Elect. Improvements																											
Construction					05-Dec-20, Construction																											
CD40740	Construction Substations 11 & 12 (2.11) - CD Misc. Elect. Improvements	440	05-Aug-19 A	05-Dec-20	Construction Substations 11 & 12 (2.11) - CD Misc. Elect. Improvements																											
Project Administration					05-Dec-20, Project Administration																											
CD85060	WASD Project Administration - 11 & 12 (2.11) - CD Misc. Elect. Improvements	1051	24-Aug-16 A	05-Dec-20	WASD Project Administration - 11 & 12 (2.11) - CD Misc. Elect. Improvements																											
2.01 (5) Substations 15 & 16 (Project 2.15(1))					18-Aug-20, 2.01 (5) Substations 15 & 16 (Project 2.15(1))																											
Engineering Design					29-Sep-15 A, Engineering Design																											
CD40880	Engineering Design Substations 15 & 16 (2.15) - CD Misc. Elect. Improvements	475	11-Jun-14 A	29-Sep-15 A	Engineering Design Substations 15 & 16 (2.15) - CD Misc. Elect. Improvements																											
Permitting					24-Aug-16 A, Permitting																											
CD40960	Permitting Substations 15 & 16 (2.15) - CD Misc. Elect. Improvements	329	30-Sep-15 A	24-Aug-16 A	Permitting Substations 15 & 16 (2.15) - CD Misc. Elect. Improvements																											
Procurement					30-Oct-16 A, Procurement																											
CD41040	Procurement Substations 15 & 16 (2.15) - CD Misc. Elect. Improvements	198	15-Apr-16 A	30-Oct-16 A	Procurement Substations 15 & 16 (2.15) - CD Misc. Elect. Improvements																											
Construction					18-Aug-20, Construction																											
CD40750	Construction - Substations 15 & 16 (2.15) - CD Misc. Elect. Improvements	540	31-Oct-16 A	18-Aug-20	Construction - Substations 15 & 16 (2.15) - CD Misc. Elect. Improvements																											
Project Administration					18-Aug-20, Project Administration																											
CD85070	WASD Project Administration - Substations 15 & 16 (2.15) - CD Misc. Elect. Improvements	1413	11-Jun-14 A	18-Aug-20	WASD Project Administration - Substations 15 & 16 (2.15) - CD Misc. Elect. Improvements																											
2.01 (6) Substations 17 & 18 (Project 2.19(2a))					04-Oct-19 A, 2.01 (6) Substations 17 & 18 (Project 2.19(2a))																											
2.01 (7) Substations 7A, 8A, 9A, & 10A					16-Nov-21, 2.01 (7) Substations 7A, 8A, 9A, & 10A																											
Pre-Design					17-Sep-18 A, Pre-Design																											
CD85410	Pre-Design (TM) - Substations 7A, 8A, 9A, & 10A	229	17-Oct-16 A	17-Sep-18 A	Pre-Design (TM) - Substations 7A, 8A, 9A, & 10A																											
CD85420	Pre-Design (Remaining Scope of Work) - Substations 7A, 8A, 9A, & 10A	97	17-Oct-16 A	09-Aug-17 A	Pre-Design (Remaining Scope of Work) - Substations 7A, 8A, 9A, & 10A																											
Engineering Design					02-May-19 A, Engineering Design																											
CD85430	Draft Technical Memo Submittal - Substations 7A, 8A, 9A, & 10A	150	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	632	09-Aug-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	30	28-Nov-17 A	19-Nov-18 A	Basis of Design Report (BODR) - Substations 7A, 8A, 9A, & 10A																											
CD85840	Review/Revise BODR - Substations 7A, 8A, 9A, & 10A	45	19-Sep-18 A	07-Dec-18 A	Review/Revise BODR - Substations 7A, 8A, 9A, & 10A																											
CD85450	60% Design Submittal - Substations 7A, 8A, 9A, & 10A	18	20-Nov-18 A	28-Jan-19 A	60% Design Submittal - Substations 7A, 8A, 9A, & 10A																											
CD85460	60% Design Review - Substations 7A, 8A, 9A, & 10A	52	08-Dec-18 A	22-Feb-19 A	60% Design Review - Substations 7A, 8A, 9A, & 10A																											
CD85470	100% Design Submittal - Substations 7A, 8A, 9A, & 10A	15	29-Jan-19 A	12-Mar-19 A	100% Design Submittal - Substations 7A, 8A, 9A, & 10A																											
CD40840	Engineering Design - Substations 7A, 8A, 9A, & 10A	33	25-Feb-19 A	02-May-19 A	Engineering Design - Substations 7A, 8A, 9A, & 10A																											
CD85480	100% Design Review/Permit Ready Submittal - Substations 7A, 8A, 9A, & 10A	180	09-Aug-17 A	02-May-19 A	100% Design Review/Permit Ready Submittal - Substations 7A, 8A, 9A, & 10A																											
Permitting					30-Nov-19 A, Permitting																											
CD40920	Permitting - Substations 7A, 8A, 9A, & 10A	21	13-Mar-19 A	30-Nov-19 A	Permitting - Substations 7A, 8A, 9A, & 10A																											
Procurement					10-May-20 A, Procurement																											
CD85590	Design Documents to Procurement - Substations 7A, 8A, 9A, & 10A	180	23-Aug-19 A	10-May-20 A	Design Documents to Procurement - Substations 7A, 8A, 9A, & 10A																											
CD85610	Advertise Bid Package - Substations 7A, 8A, 9A, & 10A	239	23-Aug-19 A	10-May-20 A	Advertise Bid Package - Substations 7A, 8A, 9A, & 10A																											
CD85600	Submit/Approve SBD Goals and Request to Advertise - Substations 7A, 8A, 9A, & 10A	0	13-Sep-19 A	17-Sep-19 A	Submit/Approve SBD Goals and Request to Advertise - Substations 7A, 8A, 9A, & 10A																											
CD85620	Bid Solicitation Period - Substations 7A, 8A, 9A, & 10A	34	23-Aug-19 A	19-Nov-19 A	Bid Solicitation Period - Substations 7A, 8A, 9A, & 10A																											
CD85630	Bids Due - Substations 7A, 8A, 9A, & 10A	60	13-Sep-19 A	20-Nov-19 A	Bids Due - Substations 7A, 8A, 9A, & 10A																											
CD85640	Bid Review Period - Substations 7A, 8A, 9A, & 10A	0	20-Nov-19 A	24-Feb-20 A	Bid Review Period - Substations 7A, 8A, 9A, & 10A																											
CD85650	Award Recommendation - Substations 7A, 8A, 9A, & 10A	26	20-Nov-19 A	24-Feb-20 A	Award Recommendation - Substations 7A, 8A, 9A, & 10A																											
CD41000	Procurement - Substations 7A, 8A, 9A, & 10A	0	23-Aug-19 A	10-May-20 A	Procurement - Substations 7A, 8A, 9A, & 10A																											

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																																	
					2018				2019				2020				2021				2022				2023				2024				2025				2026	
					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				
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																																	
CD10690	Permitting - CD Oxygenation Trains Plant 2	2378	01-Mar-11 A	02-Sep-17 A	Permitting - CD Oxygenation Trains Plant 2																																	
CD82510	EPA Start Date for Permitting - CD Oxygenation Trains Plant 2	62	01-Mar-11 A	02-May-11 A	EPA Start Date for Permitting - CD Oxygenation Trains Plant 2																																	
CD80520	EPA Compliance Date for Permitting - CD Oxygenation Trains Plant 2	0	03-Sep-16 A	02-Sep-17 A	EPA Compliance Date for Permitting - CD Oxygenation Trains Plant 2																																	
CD81310	Procurement (Mixers) - CD Oxygenation Trains Plant 2	3103	02-May-11 A	31-Aug-20	Procurement (Mixers) - CD Oxygenation Trains Plant 2																																	
CD82520	EPA Start Date for Procurement - CD Oxygenation Trains Plant 2	517	02-Sep-13 A	31-Jan-15 A	EPA Start Date for Procurement - CD Oxygenation Trains Plant 2																																	
CD80530	EPA Compliance Date for Procurement - CD Oxygenation Trains Plant 2	0	03-Sep-17 A	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	06-Oct-19 A	Procurement (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2																																	
CD10900	Procurement - CD Oxygenation Trains Plant 2	2754	02-May-11 A	31-Aug-20	Procurement - CD Oxygenation Trains Plant 2																																	
CD81320	Procurement (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2	152	10-May-19 A	31-Aug-20	Procurement (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2																																	
CD11091	Install Mixers Train #1 - CD Oxygenation Trains Plant 2	2629	02-Feb-15 A	14-Apr-22	Install Mixers Train #1 - CD Oxygenation Trains Plant 2																																	
CD11280	Structural Rehab Train #3 - CD Oxygenation Trains Plant 2	24	11-Jan-16 A	03-Feb-16 A	Structural Rehab Train #3 - CD Oxygenation Trains Plant 2																																	
CD11090	Structural Rehab Train #1 - CD Oxygenation Trains Plant 2	182	01-Sep-15 A	29-Feb-16 A	Structural Rehab Train #1 - CD Oxygenation Trains Plant 2																																	
CD82530	EPA Start Date for Construction - CD Oxygenation Trains Plant 2	113	09-Nov-15 A	29-Feb-16 A	EPA Start Date for Construction - CD Oxygenation Trains Plant 2																																	
CD30060	Electrical Equip. / Expand Structure - CD Oxygenation Trains Plant 2	113	17-Jan-17 A	09-May-17 A	Electrical Equip. / Expand Structure - CD Oxygenation Trains Plant 2																																	
CD11190	Structural Rehab Train #2 - CD Oxygenation Trains Plant 2	0	16-Dec-18 A	03-Jan-21*	Structural Rehab Train #2 - CD Oxygenation Trains Plant 2																																	
CD32570	Construction - CD Oxygenation Trains Plant 2	1034	02-Feb-15 A	29-Jan-19 A	Construction - CD Oxygenation Trains Plant 2																																	
CD11380	Structural Rehab Train #4 - CD Oxygenation Trains Plant 2	155	07-Oct-19 A	31-Jul-20	Structural Rehab Train #4 - CD Oxygenation Trains Plant 2																																	
CD11450	Substantial Completion (CD Compliance Date 4/14/22) - CD Oxygenation Trains Plant 2	1192	09-Nov-15 A	03-Jan-21*	Substantial Completion (CD Compliance Date 4/14/22) - CD Oxygenation Trains Plant 2																																	
CD81900	Project Closeout - CD Oxygenation Trains Plant 2	125	01-Sep-20	03-Jan-21	Project Closeout - CD Oxygenation Trains Plant 2																																	
CD80580	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 2	30	04-Jan-21	02-Feb-21*	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 2																																	
CD33990	WASD Project Administration - CD Oxygenation Trains Plant 2	2584	01-Mar-11 A	03-Jan-21	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																																	
CD11350	Engineering Design - CD Secondary Clarifiers Plant 1	1249	12-Apr-18 A	05-Oct-21	Engineering Design - CD Secondary Clarifiers Plant 1																																	
CD82540	EPA Start Date for Engineering Design - CD Secondary Clarifiers Plant 1	455	12-Apr-18 A	03-Jan-20 A	EPA Start Date for Engineering Design - CD Secondary Clarifiers Plant 1																																	
CD80590	EPA Compliance Date for Engineering Design - CD Secondary Clarifiers Plant 1	0	01-Apr-21*	05-Oct-21*	EPA Compliance Date for Engineering Design - CD Secondary Clarifiers Plant 1																																	
CD11400	Permitting - CD Secondary Clarifiers Plant 1	975	04-Jan-20 A	05-Oct-22	Permitting - CD Secondary Clarifiers Plant 1																																	
CD82550	EPA Start Date for Permitting - CD Secondary Clarifiers Plant 1	173	04-Jan-20 A	01-Apr-20 A	EPA Start Date for Permitting - CD Secondary Clarifiers Plant 1																																	
CD80600	EPA Compliance Date for Permitting - CD Secondary Clarifiers Plant 1	0	06-Oct-21*	05-Oct-22*	EPA Compliance Date for Permitting - CD Secondary Clarifiers Plant 1																																	
CD82560	EPA Start Date for Procurement - CD Secondary Clarifiers Plant 1	2007	17-Jul-15 A	20-Jun-24	EPA Start Date for Procurement - CD Secondary Clarifiers Plant 1																																	
CD80610	EPA Compliance Date for Procurement - CD Secondary Clarifiers Plant 1	0	06-Oct-22*	05-Oct-23*	EPA Compliance Date for Procurement - CD Secondary Clarifiers Plant 1																																	
CD11530	Procurement - CD Secondary Clarifiers Plant 1	769	17-Jul-15 A	20-Jun-24	Procurement - CD Secondary Clarifiers Plant 1																																	
CD82570	EPA Start Date for Construction - CD Secondary Clarifiers Plant 1	2283	11-Jul-15 A	15-Aug-26	EPA Start Date for Construction - CD Secondary Clarifiers Plant 1																																	
CD11598	Construction - CD Secondary Clarifiers Plant 1	0	06-Oct-23*	25-Apr-25	Construction - CD Secondary Clarifiers Plant 1																																	
CD85370	Substantial Completion (CD Compliance Date 8/15/26) - CD Secondary Clarifiers Plant 1	1045	11-Jul-15 A	25-Apr-25	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*	15-Aug-26*	EPA Compliance Date for Construction - CD Secondary Clarifiers Plant 1																																	
CD34000	WASD Project Administration - CD Secondary Clarifiers Plant 1	1986	31-Jul-18 A	24-Jul-25	WASD Project Administration - CD Secondary Clarifiers Plant 1																																	
2.07 (1) Secondary Clarifiers Plant 1		2998	10-May-17 A	24-Jul-25	2.07 (1) 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																																	
CD20700	Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 1	181	10-May-17 A	30-Jul-18 A	Basis of Design Report (BODR) - CD Secondary Clarifiers Plant 1																																	
CD20710	BODR Review Period - CD Secondary Clarifiers Plant 1	402	31-Jul-18 A	03-Jan-20 A	BODR Review Period - CD Secondary Clarifiers Plant 1																																	
CD20720	30% Design Submittal - CD Secondary Clarifiers Plant 1	60	31-Jul-18 A	15-Jan-19 A	30% Design Submittal - CD Secondary Clarifiers Plant 1																																	
CD20730	30% Design Review - CD Secondary Clarifiers Plant 1	16	16-Jan-19 A	08-Mar-19 A	30% Design Review - CD Secondary Clarifiers Plant 1																																	
CD20740	60% Design Submittal - CD Secondary Clarifiers Plant 1	41	16-Feb-19 A	21-Mar-19 A	60% Design Submittal - CD Secondary Clarifiers Plant 1																																	
CD20750	60% Design Review - CD Secondary Clarifiers Plant 1	13	22-Mar-19 A	12-Apr-19 A	60% Design Review - CD Secondary Clarifiers Plant 1																																	
CD20760	100% Design Submittal - CD Secondary Clarifiers Plant 1	55	13-Apr-19 A	30-May-19 A	100% Design Submittal - CD Secondary Clarifiers Plant 1																																	
CD84310	Engineering Design - CD Secondary Clarifiers Plant 1	10	31-May-19 A	23-Jun-19 A	Engineering Design - CD Secondary Clarifiers Plant 1																																	
CD40340	100% Design Review/Permit Ready Submittal - CD Secondary Clarifiers Plant 1	56	24-Jun-19 A	20-Aug-19 A	100% Design Review/Permit Ready Submittal - CD Secondary Clarifiers Plant 1																																	
CD87110	FDEP Permit - CD Secondary Clarifiers Plant 1	398	31-Jul-18 A	03-Jan-20 A	FDEP Permit - CD Secondary Clarifiers Plant 1																																	
CD84530	Permitting - CD Secondary Clarifiers Plant 1	30	21-Aug-19 A	03-Jan-20 A	Permitting - CD Secondary Clarifiers Plant 1																																	
CD84000	Internal Bid Package Review - CD Secondary Clarifiers Plant 1	453	18-Apr-19 A	01-Apr-20 A	Internal Bid Package Review - CD Secondary Clarifiers Plant 1																																	
CD31200	Design Documents Sent to Procurement - CD Secondary Clarifiers Plant 1	60	18-Apr-19 A	23-Aug-19 A	Design Documents Sent to Procurement - CD Secondary Clarifiers Plant 1																																	
CD31210	Submit/Approve SBD Goals and Request to Advertise - CD Secondary Clarifiers Plant 1	173	04-Jan-20 A	01-Apr-20 A	Submit/Approve SBD Goals and Request to Advertise - CD Secondary Clarifiers Plant 1																																	
CD31220	Advertise Bid Package - CD Secondary Clarifiers Plant 1	495	30-Apr-20 A	07-Oct-21	Advertise Bid Package - CD Secondary Clarifiers Plant 1																																	
CD31230	Bid Solicitation Period - CD Secondary Clarifiers Plant 1	62	30-Apr-20 A	31-Jul-20	Bid Solicitation Period - CD Secondary Clarifiers Plant 1																																	
CD31240	Bids Due - CD Secondary Clarifiers Plant 1	0	11-Jan-21*	11-Mar-21	Bids Due - CD Secondary Clarifiers Plant 1																																	
CD31250	Bid Review Period - CD Secondary Clarifiers Plant 1	60	11-Jan-21	11-Mar-21	Bid Review Period - CD Secondary Clarifiers Plant 1																																	
CD31260	Award Recommendation - CD Secondary Clarifiers Plant 1	60	12-Mar-21	10-May-21	Award Recommendation - CD Secondary Clarifiers Plant 1																																	
CD84320	Procurement - CD Secondary Clarifiers Plant 1	60	12-Mar-21	10-May-21	Procurement - CD Secondary Clarifiers Plant 1																																	
CD31270	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 1	30	11-May-21	09-Jun-21	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 1																																	
CD31280	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 1	0	11-May-21	09-Jun-21	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 1																																	
CD31290	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 1	0	11-May-21	09-Jun-21	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 1																																	
CD31300	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 1	270	11-Jan-21	07-Oct-21	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 1																																	
CD31310	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 1	120	10-Jun-21	07-Oct-21	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 1																																	
Construction		1386	08-Oct-21	24-Jul-25	Construction																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																											
					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		
CD84360	Engineering Design - CD Secondary Clarifiers Plant 2	323	16-Mar-16 A	01-Feb-17 A	CD Secondary Clarifiers Plant 2																											
CD40350	100% Design Review/Permit Ready Submittal - CD Secondary Clarifiers Plant 2	41	23-Dec-16 A	01-Feb-17 A	Permit Ready Submittal - CD Secondary Clarifiers Plant 2																											
CD80140	FDEP Permit - CD Secondary Clarifiers Plant 2	181	28-Jul-16 A	24-Jan-17 A	FDEP Permit - CD Secondary Clarifiers Plant 2																											
CD80150	RER Permit - CD Secondary Clarifiers Plant 2	97	03-Feb-17 A	10-May-17 A	RER Permit - CD Secondary Clarifiers Plant 2																											
CD84370	Permitting - CD Secondary Clarifiers Plant	466	28-Jul-16 A	22-May-18 A	Permitting - CD Secondary Clarifiers Plant																											
CD80160	City of Miami Permit - CD Secondary Clarifiers Plant 2	180	10-May-17 A	22-May-18 A	City of Miami Permit - CD Secondary Clarifiers Plant 2																											
CD84130	GMOU submittal and approval - CD Secondary Clarifiers Plant 2	21	03-Feb-17 A	23-Feb-17 A	GMOU submittal and approval - CD Secondary Clarifiers Plant 2																											
CD84010	Internal Bid Package Review - CD Secondary Clarifiers Plant 2	3	13-Nov-17 A	26-Nov-17 A	Internal Bid Package Review - CD Secondary Clarifiers Plant 2																											
CD31280	Design Documents Sent to Procurement - CD Secondary Clarifiers Plant 2	0	27-Nov-17 A		Design Documents Sent to Procurement - CD Secondary Clarifiers Plant 2																											
CD31290	Submit/Approve SBD Goals and Request to Advertise - CD Secondary Clarifiers Plant 2	60	22-Jan-18 A	11-Apr-18 A	Submit/Approve SBD Goals and Request to Advertise - CD Secondary Clarifiers Plant 2																											
CD31300	Advertise Bid Package - CD Secondary Clarifiers Plant 2	0	12-Apr-18 A		Advertise Bid Package - CD Secondary Clarifiers Plant 2																											
CD31310	Bid Solicitation Period - CD Secondary Clarifiers Plant 2	45	12-Apr-18 A	04-Jun-18 A	Bid Solicitation Period - CD Secondary Clarifiers Plant 2																											
CD31320	Bids Due - CD Secondary Clarifiers Plant 2	0	05-Jun-18 A		Bids Due - CD Secondary Clarifiers Plant 2																											
CD31330	Bid Review Period - CD Secondary Clarifiers Plant 2	60	05-Jun-18 A	12-Oct-18 A	Bid Review Period - CD Secondary Clarifiers Plant 2																											
CD31340	Award Recommendation - CD Secondary Clarifiers Plant 2	0		12-Oct-18 A	Award Recommendation - CD Secondary Clarifiers Plant 2																											
CD84380	Procurement - CD Secondary Clarifiers Plant 2	270	27-Nov-17 A	29-Nov-18 A	Procurement - CD Secondary Clarifiers Plant 2																											
CD31350	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 2	45	13-Oct-18 A	29-Nov-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Secondary Clarifiers Plant 2																											
CD11113	Contractor Notice to Proceed (NTP) - CD Secondary Clarifiers Plant 2	0	06-Dec-18 A		Contractor Notice to Proceed (NTP) - CD Secondary Clarifiers Plant 2																											
CD80120	Construction 2 Electrical Buildings - CD Secondary Clarifiers Plant 2	348	06-Dec-18 A	04-Nov-20	Construction 2 Electrical Buildings - CD Secondary Clarifiers Plant 2																											
CD84390	Construction Clarifiers - CD Secondary Clarifiers Plant 2	1740	06-Dec-18 A	11-Sep-23	Construction Clarifiers - CD Secondary Clarifiers Plant 2																											
CD86250	Commissioning - CD Secondary Clarifiers Plant 2	60	14-Jul-23	11-Sep-23	Commissioning - CD Secondary Clarifiers Plant 2																											
CD83700	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Plant 2	0		11-Sep-23*	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Plant 2																											
CD40060	Project Closeout - CD Secondary Clarifiers Plant 2	59	12-Sep-23	09-Nov-23*	Project Closeout - CD Secondary Clarifiers Plant 2																											
CD85150	WASD Project Administration - CD Secondary Clarifiers Plant 2	2615	16-Mar-16 A	09-Nov-23	WASD Project Administration - CD Secondary Clarifiers Plant 2																											
2.08 (2) Secondary Clarifiers Plant 2 Tank Mechanisms																																
CD83710	Construction Tanks 2&3 - CD Secondary Clarifiers Tank Mechanisms	45	21-Nov-18 A	04-Sep-23	Construction Tanks 2&3 - CD Secondary Clarifiers Tank Mechanisms																											
CD83720	Construction Tank 9 - CD Secondary Clarifiers Tank Mechanisms	180	20-Sep-19 A	20-Apr-20 A	Construction Tank 9 - CD Secondary Clarifiers Tank Mechanisms																											
CD86100	Construction Tank 8 - CD Secondary Clarifiers Tank Mechanisms	180	30-Mar-20 A	10-Sep-20	Construction Tank 8 - CD Secondary Clarifiers Tank Mechanisms																											
CD83730	Construction Tank 10 - CD Secondary Clarifiers Tank Mechanisms	195	30-Jun-20	10-Jan-21	Construction Tank 10 - CD Secondary Clarifiers Tank Mechanisms																											
CD83740	Construction Tank 7 - CD Secondary Clarifiers Tank Mechanisms	195	07-Feb-21*	20-Aug-21	Construction Tank 7 - CD Secondary Clarifiers Tank Mechanisms																											
CD83750	Construction Tanks 5&6 - CD Secondary Clarifiers Tank Mechanisms	195	15-Oct-21	27-Apr-22	Construction Tanks 5&6 - CD Secondary Clarifiers Tank Mechanisms																											
CD87170	Construction Tank 4 - CD Secondary Clarifiers Tank Mechanisms	195	03-May-22	13-Nov-22	Construction Tank 4 - CD Secondary Clarifiers Tank Mechanisms																											
CD84400	Construction Tanks - CD Secondary Clarifiers Plant 2 Tank Mechanisms	1261	21-Nov-18 A	06-Jun-23	Construction Tanks - CD Secondary Clarifiers Plant 2 Tank Mechanisms																											
CD87180	Construction Tank 1 - CD Secondary Clarifiers Tank Mechanisms	195	24-Nov-22	06-Jun-23	Construction Tank 1 - CD Secondary Clarifiers Tank Mechanisms																											
CD83760	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Tank Mechanisms	0		06-Jun-23*	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Tank Mechanisms																											
CD85710	Project Closeout - CD Secondary Clarifiers Tank Mechanisms	90	07-Jun-23	04-Sep-23*	Project Closeout - CD Secondary Clarifiers Tank Mechanisms																											
CD85160	WASD Project Administration - CD Secondary Clarifiers Tank Mechanisms	1351	21-Nov-18 A	04-Sep-23	WASD Project Administration - CD Secondary Clarifiers Tank Mechanisms																											
2.08 (3) Secondary Clarifiers Plant 2 Structural Rehab																																
CD83770	Pre-Design Tanks 1-10 - CD Secondary Clarifiers Structural Rehab	148	14-Jul-17 A	09-Feb-18 A	Pre-Design Tanks 1-10 - CD Secondary Clarifiers Structural Rehab																											
CD85730	50% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab	120	12-Feb-18 A	25-Apr-18 A	50% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab																											
CD85740	50% Design Review - CD Secondary Clarifiers Plant 2 Structural Rehab	7	26-Apr-18 A	16-May-18 A	50% Design Review - CD Secondary Clarifiers Plant 2 Structural Rehab																											
CD85750	100% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab	21	16-May-18 A	16-May-18 A	100% Design Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab																											
CD84410	Engineering Design - CD Secondary Clarifiers Plant 2 Structural Rehab	120	12-Feb-18 A	16-Jul-18 A	Engineering Design - CD Secondary Clarifiers Plant 2 Structural Rehab																											
CD85760	100% Design Review/Bid Ready Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab	20	16-May-18 A	16-Jul-18 A	100% Design Review/Bid Ready Submittal - CD Secondary Clarifiers Plant 2 Structural Rehab																											
CD83870	Procurement Tanks 2&3 - CD Secondary Clarifiers Structural Rehab	90	17-Jul-18 A	20-Nov-18 A	Procurement Tanks 2&3 - CD Secondary Clarifiers Structural Rehab																											
CD87030	Procurement Tank 9 - CD Secondary Clarifiers Structural Rehab	90	23-Aug-18 A	05-Oct-19 A	Procurement Tank 9 - CD Secondary Clarifiers Structural Rehab																											
CD83890	Procurement Tank 8 - CD Secondary Clarifiers Structural Rehab	133	28-May-19 A	29-Mar-20 A	Procurement Tank 8 - CD Secondary Clarifiers Structural Rehab																											
CD87040	Procurement Tank 10 - CD Secondary Clarifiers Structural Rehab	133	28-May-19 A	29-Jul-20	Procurement Tank 10 - CD Secondary Clarifiers Structural Rehab																											
CD83900	Procurement Tank 7 - CD Secondary Clarifiers Structural Rehab	205	30-Jul-20	19-Feb-21*	Procurement Tank 7 - CD Secondary Clarifiers Structural Rehab																											
CD83910	Procurement Tank 5 - CD Secondary Clarifiers Structural Rehab	194	04-Apr-21	14-Oct-21*	Procurement Tank 5 - CD Secondary Clarifiers Structural Rehab																											
CD87070	Procurement Tank 6 - CD Secondary Clarifiers Structural Rehab	194	04-Apr-21	14-Oct-21*	Procurement Tank 6 - CD Secondary Clarifiers Structural Rehab																											
CD87050	Procurement Tank 4 - CD Secondary Clarifiers Structural Rehab	253	28-May-19 A	02-May-22	Procurement Tank 4 - CD Secondary Clarifiers Structural Rehab																											
CD84420	Procurement - CD Secondary Clarifiers Plant 2 Structural Rehab	1187	17-Jul-18 A	29-Oct-22	Procurement - CD Secondary Clarifiers Plant 2 Structural Rehab																											
CD87060	Procurement Tank 1 - CD Secondary Clarifiers Structural Rehab	180	03-May-22	29-Oct-22*	Procurement Tank 1 - CD Secondary Clarifiers Structural Rehab																											
CD87160	Construction Tank 3 - CD Secondary Clarifiers Structural Rehab	112	21-Nov-18 A	06-May-19 A	Construction Tank 3 - CD Secondary Clarifiers Structural Rehab																											
CD83920	Construction Tank 2 - CD Secondary Clarifiers Structural Rehab	142	21-Nov-18 A	21-Jun-19 A	Construction Tank 2 - CD Secondary Clarifiers Structural Rehab																											
CD83930	Construction Tank 9 - CD Secondary Clarifiers Structural Rehab	135	07-Oct-19 A	07-Mar-20 A	Construction Tank 9 - CD Secondary Clarifiers Structural Rehab																											
CD86090	Construction Tank 8 - CD Secondary Clarifiers Structural Rehab	165	30-Mar-20 A	11-Aug-20	Construction Tank 8 - CD Secondary Clarifiers Structural Rehab																											
CD83940	Construction Tank 10 - CD Secondary Clarifiers Structural Rehab	135	30-Jul-20	11-Dec-20	Construction Tank 10 - CD Secondary Clarifiers Structural Rehab																											
CD83950	Construction Tank 7 - CD Secondary Clarifiers Structural Rehab	135	09-Mar-21	21-Jul-21	Construction Tank 7 - CD Secondary Clarifiers Structural Rehab																											
CD83960	Construction Tank 5 - CD Secondary Clarifiers Structural Rehab	135	14-Nov-21	28-Mar-22	Construction Tank 5 - CD Secondary Clarifiers Structural Rehab																											
CD87100	Construction Tank 6 - CD Secondary Clarifiers Structural Rehab	135	14-Nov-21	28-Mar-22	Construction Tank 6 - CD Secondary Clarifiers Structural Rehab																											
CD87080	Construction Tank 4 - CD Secondary Clarifiers Structural Rehab	135	02-Jun-22	14-Oct-22	Construction Tank 4 - CD Secondary Clarifiers Structural Rehab																											
CD84430	Construction - CD Secondary Clarifiers Plant 2 Structural Rehab	1188	21-Nov-18 A	07-May-23	Construction - CD Secondary Clarifiers Plant 2 Structural Rehab																											

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026 Quarterly Gantt Chart																											
					2018 Q1-4	2019 Q1-4	2020 Q1-4	2021 Q1-4	2022 Q1-4	2023 Q1-4	2024 Q1-4	2025 Q1-4	2026 Q1-2																			
CD87090	Construction Tank 1 - CD Secondary Clarifiers Structural Rehab	135	24-Dec-22	07-May-23	Gantt bar: 2018 Q4 - 2023 Q2																											
CD83970	Substantial Completion (CD Compliance Date 12/01/24) - CD Secondary Clarifiers Structural Rehab	0		07-May-23*	Milestone: 2023 Q2																											
CD85720	Project Closeout - CD Secondary Clarifiers Structural Rehab	90	08-May-23	05-Aug-23*	Gantt bar: 2023 Q2 - 2025 Q1																											
Project Administration					WASD Project Administration - CD Secondary Clarifiers Structural Rehab																											
CD85170	WASD Project Administration - CD Secondary Clarifiers Structural Rehab	1447	12-Feb-18 A	05-Aug-23	Gantt bar: 2018 Q1 - 2023 Q2																											
2.09 Return Sludge PS Plant 1					30-Jul-18 A, Pre-Design																											
Pre-Design					Pre-Design - CD Return Sludge PS Plant 1																											
CD11272	Pre-Design - CD Return Sludge PS Plant 1	181	10-May-17 A	30-Jul-18 A	Gantt bar: 2018 Q1 - 2018 Q3																											
Engineering Design					05-Oct-21, Engineering Design																											
CD20840	Basis of Design Report (BODR) - CD Return Sludge PS Plant 1	60	31-Jul-18 A	08-Mar-19 A	Gantt bar: 2018 Q3 - 2019 Q1																											
CD20850	30% Design Submittal - CD Return Sludge PS Plant 1	41	16-Feb-19 A	21-Mar-19 A	Gantt bar: 2019 Q1 - 2019 Q1																											
CD20860	30% Design Review - CD Return Sludge PS Plant 1	13	22-Mar-19 A	12-Apr-19 A	Gantt bar: 2019 Q1 - 2019 Q1																											
CD20870	60% Design Submittal - CD Return Sludge PS Plant 1	55	13-Apr-19 A	30-May-19 A	Gantt bar: 2019 Q1 - 2019 Q2																											
CD20880	60% Design Review - CD Return Sludge PS Plant 1	10	31-May-19 A	23-Jun-19 A	Gantt bar: 2019 Q2 - 2019 Q2																											
CD20890	100% Design Submittal - CD Return Sludge PS Plant 1	56	24-Jun-19 A	20-Aug-19 A	Gantt bar: 2019 Q2 - 2019 Q3																											
CD11340	Engineering Design - CD Return Sludge PS Plant 1	398	30-Jul-18 A	03-Jan-20 A	Gantt bar: 2018 Q3 - 2020 Q1																											
CD40360	100% Design Review/Permit Ready Submittal - CD Return Sludge PS Plant 1	30	21-Aug-19 A	03-Jan-20 A	Gantt bar: 2019 Q3 - 2020 Q1																											
CD82620	EPA Start Date for Engineering Design - CD Return Sludge PS Plant 1	0	01-Apr-21*		Milestone: 2021 Q1																											
CD80740	EPA Compliance Date for Engineering Design - CD Return Sludge PS Plant 1	0		05-Oct-21*	Milestone: 2021 Q4																											
Permitting					05-Oct-22, Permitting																											
CD87120	FDEP Permit - CD Return Sludge PS Plant 1	60	18-Apr-19 A	23-Aug-19 A	Gantt bar: 2019 Q1 - 2019 Q2																											
CD11390	Permitting - CD Return Sludge PS Plant 1	173	04-Jan-20 A	01-Apr-20 A	Gantt bar: 2020 Q1 - 2020 Q1																											
CD82630	EPA Start Date for Permitting - CD Return Sludge PS Plant 1	0	06-Oct-21*		Milestone: 2021 Q4																											
CD80750	EPA Compliance Date for Permitting - CD Return Sludge PS Plant 1	0		05-Oct-22*	Milestone: 2022 Q4																											
Procurement					05-Oct-23, Procurement																											
CD84020	Internal Bid Package Review - CD Return Sludge PS Plant 1	1223	30-Apr-20 A	05-Oct-23	Gantt bar: 2020 Q2 - 2023 Q4																											
CD31360	Design Documents Sent to Procurement - CD Return Sludge PS Plant 1	0	11-Jan-21*		Milestone: 2021 Q1																											
CD31370	Submit/Approve SBD Goals and Request to Advertise - CD Return Sludge PS Plant 1	60	11-Jan-21	11-Mar-21	Gantt bar: 2021 Q1 - 2021 Q1																											
CD31380	Advertise Bid Package - CD Return Sludge PS Plant 1	0	12-Mar-21		Milestone: 2021 Q1																											
CD31390	Bid Solicitation Period - CD Return Sludge PS Plant 1	60	12-Mar-21	10-May-21	Gantt bar: 2021 Q1 - 2021 Q1																											
CD31400	Bids Due - CD Return Sludge PS Plant 1	0	11-May-21		Milestone: 2021 Q2																											
CD31410	Bid Review Period - CD Return Sludge PS Plant 1	30	11-May-21	09-Jun-21	Gantt bar: 2021 Q2 - 2021 Q2																											
CD31420	Award Recommendation - CD Return Sludge PS Plant 1	0		09-Jun-21	Milestone: 2021 Q2																											
CD11520	Procurement - CD Return Sludge PS Plant 1	270	11-Jan-21	07-Oct-21	Gantt bar: 2021 Q1 - 2021 Q4																											
CD31430	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Return Sludge PS Plant 1	120	10-Jun-21	07-Oct-21	Gantt bar: 2021 Q3 - 2021 Q4																											
CD82640	EPA Start Date for Procurement - CD Return Sludge PS Plant 1	0	06-Oct-22*		Milestone: 2022 Q4																											
CD80760	EPA Compliance Date for Procurement - CD Return Sludge PS Plant 1	0		05-Oct-23*	Milestone: 2023 Q4																											
Construction					08-Oct-21, 15-Aug-26																											
CD11583	Contractor Notice to Proceed (NTP) - CD Return Sludge PS Plant 1	0	08-Oct-21		Milestone: 2021 Q4																											
CD11590	Construction PS #1 - CD Return Sludge PS Plant 1	496	08-Oct-21	15-Feb-23	Gantt bar: 2021 Q4 - 2023 Q1																											
CD82650	EPA Start Date for Construction - CD Return Sludge PS Plant 1	0	06-Oct-23*		Milestone: 2023 Q4																											
CD11630	Construction PS #2 - CD Return Sludge PS Plant 1	400	16-Feb-23	21-Mar-24	Gantt bar: 2023 Q1 - 2023 Q1																											
CD11588	Construction - CD Return Sludge PS Plant 1	1296	08-Oct-21	25-Apr-25	Gantt bar: 2021 Q4 - 2023 Q2																											
CD11660	Construction PS #3 - CD Return Sludge PS Plant 1	400	22-Mar-24	25-Apr-25	Gantt bar: 2023 Q1 - 2023 Q1																											
CD86260	Commissioning - CD Return Sludge PS Plant 1	30	27-Mar-25	25-Apr-25	Gantt bar: 2023 Q1 - 2023 Q1																											
CD11700	Substantial Completion (CD Compliance Date 8/15/26) - CD Return Sludge PS Plant 1	0		25-Apr-25*	Milestone: 2023 Q1																											
CD40070	Project Closeout - CD Return Sludge PS Plant 1	90	26-Apr-25	24-Jul-25*	Gantt bar: 2023 Q1 - 2023 Q2																											
CD80800	EPA Compliance Date for Construction - CD Return Sludge PS Plant 1	0		15-Aug-26*	Milestone: 2023 Q4																											
Project Administration					24-Jul-25, Project Ad																											
CD34020	WASD Project Administration - CD Return Sludge PS Plant 1	1986	31-Jul-18 A	24-Jul-25	Gantt bar: 2018 Q3 - 2023 Q2																											
2.10 Return Sludge PS Plant 2					13-Jan-16 A, 31-Mar-17 A																											
Engineering Design					01-Jun-16 A																											
CD82660	EPA Start Date for Engineering Design - CD Return Sludge PS Plant 2	303	13-Jan-16 A	31-Mar-17 A	Gantt bar: 2016 Q1 - 2016 Q1																											
CD10620	Engineering Design - CD Return Sludge PS Plant 2	0	13-Jan-16 A	01-Feb-17 A	Gantt bar: 2016 Q1 - 2016 Q2																											
CD80810	EPA Compliance Date for Engineering Design - CD Return Sludge PS Plant 2	0		31-Mar-17 A	Milestone: 2016 Q1																											
Permitting					22-May-18 A, Permitting																											
CD82670	EPA Start Date for Permitting - CD Return Sludge PS Plant 2	648	22-Mar-16 A	22-May-18 A	Gantt bar: 2016 Q1 - 2016 Q2																											
CD80820	EPA Compliance Date for Permitting - CD Return Sludge PS Plant 2	0		05-Dec-17 A	Milestone: 2016 Q4																											
CD10780	Permitting - CD Return Sludge PS Plant 2	593	22-Mar-16 A	22-May-18 A	Gantt bar: 2016 Q1 - 2016 Q2																											
Procurement					05-Dec-18 A, Procurement																											
CD82680	EPA Start Date for Procurement - CD Return Sludge PS Plant 2	991	14-Apr-16 A	05-Dec-18 A	Gantt bar: 2016 Q2 - 2016 Q4																											
CD10990	Procurement - CD Return Sludge PS Plant 2	844	14-Apr-16 A	29-Nov-18 A	Gantt bar: 2016 Q2 - 2016 Q4																											
CD80830	EPA Compliance Date for Procurement - CD Return Sludge PS Plant 2	0		05-Dec-18 A	Milestone: 2016 Q4																											
Construction					01-Dec-24, Construction																											
CD82690	EPA Start Date for Construction - CD Return Sludge PS Plant 2	3146	22-Apr-16 A	01-Dec-24	Gantt bar: 2016 Q2 - 2023 Q4																											
CD11108	Construction - CD Return Sludge PS Plant 2	2578	22-Apr-16 A	11-Sep-23	Gantt bar: 2016 Q2 - 2023 Q3																											
CD85490	Substantial Completion (CD Compliance Date 12/01/24) - CD Return Sludge PS Plant 2	0		11-Sep-23*	Milestone: 2023 Q3																											
CD80860	EPA Compliance Date for Construction - CD Return Sludge PS Plant 2	0		01-Dec-24*	Milestone: 2023 Q4																											
Project Administration					09-Nov-23, Project Administration																											
CD34030	WASD Project Administration - CD Return Sludge PS Plant 2	2705	16-Mar-16 A	09-Nov-23	Gantt bar: 2016 Q1 - 2023 Q4																											
2.10 (1) Return Sludge PS Plant 2 - RAS Pump					15-Jul-15 A, 09-Nov-23																											
Pre-Design					15-Jul-15 A, 15-Mar-16 A																											
CD11282	Pre-Design - CD Return Sludge PS Plant 2	244	15-Jul-15 A	15-Mar-16 A	Gantt bar: 2015 Q3 - 2016 Q1																											
Engineering Design					16-Mar-16 A, 01-Feb-17 A																											
CD20900	Draft Basis of Design Report (BODR) - CD Return Sludge PS Plant 2	322	16-Mar-16 A	01-Feb-17 A	Gantt bar: 2016 Q1 - 2016 Q2																											

Activity ID	Activity Name	Original Duration	Start	Finish	2018		2019			2020				2021				2022				2023				2024				2025		2026	
					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
Construction					723	21-Jun-19 A	21-Jun-21	21-Jun-21, Construction																									
CD82730	EPA Start Date for Construction - CD Effluent Pump Station	0	21-Jun-19 A		◆ EPA Start Date for Construction - CD Effluent Pump Station																												
CD10658	Contractor Notice to Proceed (NTP) - CD Effluent Pump Station	0	05-Aug-19 A		◆ Contractor Notice to Proceed (NTP) - CD Effluent Pump Station																												
CD10660	Construction - CD Effluent Pump Station	440	05-Aug-19 A	05-Dec-20	Construction - CD Effluent Pump Station																												
CD86280	Commissioning - CD Effluent Pump Station	30	06-Nov-20	05-Dec-20	■ Commissioning - CD Effluent Pump Station																												
CD10870	Substantial Completion (CD Compliance Date 6/21/21) - CD Effluent Pump Station	0		05-Dec-20*	◆ Substantial Completion (CD Compliance Date 6/21/21) - CD Effluent Pump Station																												
CD40090	Project Closeout - CD Effluent Pump Station	60	06-Dec-20	03-Feb-21*	■ Project Closeout - CD Effluent Pump Station																												
CD80900	EPA Compliance Date for Construction - CD Effluent Pump Station	0		21-Jun-21*	◆ EPA Compliance Date for Construction - CD Effluent Pump Station																												
Project Administration					1121	13-Sep-16 A	03-Feb-21	03-Feb-21, Project Administration																									
CD34040	WASD Project Administration - CD Effluent Pump Station	1121	13-Sep-16 A	03-Feb-21	■ WASD Project Administration - CD Effluent Pump Station																												
2.12 Gravity Sludge Thickeners Plant 1					3067	02-Feb-15 A	26-Jun-23	26-Jun-23, 2.12 Gravity Sludge Thickeners Plant 1																									
Pre-Design					87	02-Feb-15 A	30-Apr-15 A																										
CD11302	Pre-Design - CD Gravity Sludge Thickeners Plant 1	88	02-Feb-15 A	30-Apr-15 A																													
Engineering Design					868	16-Jun-15 A	05-Oct-17 A	05-Oct-17 A, Engineering Design																									
CD20960	Basis of Design Report (BODR) - CD Gravity Sludge Thickeners Plant 1	190	16-Jun-15 A	22-Dec-15 A	Basis of Design Report (BODR) - CD Gravity Sludge Thickeners Plant 1																												
CD32810	BODR Design Review - CD Gravity Sludge Thickeners Plant 1	36	23-Dec-15 A	27-Jan-16 A	BODR Design Review - CD Gravity Sludge Thickeners Plant 1																												
CD10370	Engineering Design - CD Gravity Sludge Thickeners Plant 1	288	16-Jun-15 A	29-Mar-16 A	Engineering Design - CD Gravity Sludge Thickeners Plant 1																												
CD41080	Issue Final RDBS - CD Gravity Sludge Thickeners Plant 1	0		29-Mar-16 A	Issue Final RDBS - CD Gravity Sludge Thickeners Plant 1																												
CD32620	Design Criteria Package Initial Submittal - CD Gravity Sludge Thickeners Plant 1	90	28-Jan-16 A	26-Apr-16 A	Design Criteria Package Initial Submittal - CD Gravity Sludge Thickeners Plant 1																												
CD32640	DCP Design Review - CD Gravity Sludge Thickeners Plant 1	25	25-Apr-16 A	19-May-16 A	DCP Design Review - CD Gravity Sludge Thickeners Plant 1																												
CD33340	Pilot Testing of Thickening Process - CD Gravity Sludge Thickeners Plant 1	298	04-Jan-16 A	27-Oct-16 A	Pilot Testing of Thickening Process - CD Gravity Sludge Thickeners Plant 1																												
CD32660	Final DCP Submittal - CD Gravity Sludge Thickeners Plant 1	188	20-May-16 A	23-Nov-16 A	Final DCP Submittal - CD Gravity Sludge Thickeners Plant 1																												
CD82740	EPA Start Date for Engineering Design - CD Gravity Sludge Thickeners Plant 1	0	01-Apr-17 A		◆ EPA Start Date for Engineering Design - CD Gravity Sludge Thickeners Plant 1																												
CD80910	EPA Compliance Date for Engineering Design - CD Gravity Sludge Thickeners Plant 1	0		05-Oct-17 A	◆ EPA Compliance Date for Engineering Design - CD Gravity Sludge Thickeners Plant 1																												
Permitting					1217	29-Jan-16 A	05-Mar-20 A	05-Mar-20 A, Permitting																									
CD32680	FDEP Permit - CD Gravity Sludge Thickeners Plant 1	126	29-Jan-16 A	02-Jun-16 A	FDEP Permit - CD Gravity Sludge Thickeners Plant 1																												
CD87140	FDEP Permit (Revised BODR) - CD Gravity Sludge Thickeners Plant 1	60	19-Mar-19 A	05-Mar-20 A	FDEP Permit (Revised BODR) - CD Gravity Sludge Thickeners Plant 1																												
Procurement					1624	29-Mar-16 A	03-Jul-20	03-Jul-20, Procurement																									
CD33220	RDBS Sent to Procurement - CD Gravity Sludge Thickeners Plant 1	0	29-Mar-16 A		RDBS Sent to Procurement - CD Gravity Sludge Thickeners Plant 1																												
CD33230	Submit/Approve SBD Goals and Request to Advertise - CD Gravity Sludge Thickeners Plant 1	113	29-Mar-16 A	19-Jul-16 A	Submit/Approve SBD Goals and Request to Advertise - CD Gravity Sludge Thickeners Plant 1																												
CD33240	Advertise RDBS - CD Gravity Sludge Thickeners Plant 1	0	20-Jul-16 A		Advertise RDBS - CD Gravity Sludge Thickeners Plant 1																												
CD33250	Request for Qualifications - CD Gravity Sludge Thickeners Plant 1	59	20-Jul-16 A	16-Sep-16 A	Request for Qualifications - CD Gravity Sludge Thickeners Plant 1																												
CD33260	Qualifications Package Due - CD Gravity Sludge Thickeners Plant 1	0	17-Sep-16 A		Qualifications Package Due - CD Gravity Sludge Thickeners Plant 1																												
CD33270	Qualification Review Period - CD Gravity Sludge Thickeners Plant 1	91	17-Sep-16 A	16-Dec-16 A	Qualification Review Period - CD Gravity Sludge Thickeners Plant 1																												
CD33280	Shortlist Published - CD Gravity Sludge Thickeners Plant 1	0		16-Dec-16 A	Shortlist Published - CD Gravity Sludge Thickeners Plant 1																												
CD33290	Request for Proposals - CD Gravity Sludge Thickeners Plant 1	101	24-Jan-17 A	04-May-17 A	Request for Proposals - CD Gravity Sludge Thickeners Plant 1																												
CD33300	Proposals Due - CD Gravity Sludge Thickeners Plant 1	0	05-May-17 A		Proposals Due - CD Gravity Sludge Thickeners Plant 1																												
CD33310	Proposal Review Period & Oral Presentations - CD Gravity Sludge Thickeners Plant 1	112	05-May-17 A	24-Aug-17 A	Proposal Review Period & Oral Presentations - CD Gravity Sludge Thickeners Plant 1																												
CD33320	Award Recommendation - CD Gravity Sludge Thickeners Plant 1	0	25-Aug-17 A		Award Recommendation - CD Gravity Sludge Thickeners Plant 1																												
CD33330	Contract Negotiations - CD Gravity Sludge Thickeners Plant 1	53	25-Aug-17 A	17-Nov-17 A	Contract Negotiations - CD Gravity Sludge Thickeners Plant 1																												
CD33360	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Gravity Sludge Thickeners Plant 1	79	18-Nov-17 A	01-May-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Gravity Sludge Thickeners Plant 1																												
CD86110	Bid Cancellation - CD Gravity Sludge Thickeners Plant 1	0		30-May-18 A	◆ Bid Cancellation - CD Gravity Sludge Thickeners Plant 1																												
CD86170	TA Re-Negotiation and Approval - CD Gravity Sludge Thickeners Plant 1	60	11-May-18 A	23-Jul-18 A	■ TA Re-Negotiation and Approval - CD Gravity Sludge Thickeners Plant 1																												
CD86430	Receipt of Revised Scope of Services, Submit DRAFT Review item to ISD/SBD for future solicitation, review and comments	20	09-Aug-18 A	28-Aug-18 A	■ Receipt of Revised Scope of Services, Submit DRAFT Review item to ISD/SBD for future solicitation, review and comments																												
CD82760	EPA Start Date for Procurement - CD Gravity Sludge Thickeners Plant 1	0	06-Oct-18 A		◆ EPA Start Date for Procurement - CD Gravity Sludge Thickeners Plant 1																												
CD86440	Submit approved Review Item to SBD, Receipt of SBD Worksheet, Request to Advertise; approval from WASD and OMB	40	19-Sep-18 A	08-Nov-18 A	■ Submit approved Review Item to SBD, Receipt of SBD Worksheet, Request to Advertise; approval from WASD and OMB																												
CD86450	Project Advertisement (after signed RTA) - CD Gravity Sludge Thickeners Plant 1	0		08-Nov-18 A	◆ Project Advertisement (after signed RTA) - CD Gravity Sludge Thickeners Plant 1																												
CD86480	Select and Approve Competitive Selection Committee (CSC) - CD Gravity Sludge Thickeners Plant 1	40	19-Sep-18 A	04-Jan-19 A	■ Select and Approve Competitive Selection Committee (CSC) - CD Gravity Sludge Thickeners Plant 1																												
CD86460	Step 1 - Submittal Due Date - CD Gravity Sludge Thickeners Plant 1	40	09-Nov-18 A	11-Jan-19 A	■ Step 1 - Submittal Due Date - CD Gravity Sludge Thickeners Plant 1																												
CD86470	Step 1 - Qualifications Evaluation/Meeting - CD Gravity Sludge Thickeners Plant 1	30	12-Jan-19 A	06-Mar-19 A	■ Step 1 - Qualifications Evaluation/Meeting - CD Gravity Sludge Thickeners Plant 1																												
CD86990	Issue DCP and Request for Proposals - CD Gravity Sludge Thickeners Plant 1	15	12-Mar-19 A	19-Mar-19 A	■ Issue DCP and Request for Proposals - CD Gravity Sludge Thickeners Plant 1																												
CD86500	Step 2 Submittal Due Date - CD Gravity Sludge Thickeners Plant 1	54	18-Mar-19 A	10-May-19 A	■ Step 2 Submittal Due Date - CD Gravity Sludge Thickeners Plant 1																												
CD86520	Step 2 Meeting - CD Gravity Sludge Thickeners Plant 1	30	10-May-19 A	12-Jun-19 A	■ Step 2 Meeting - CD Gravity Sludge Thickeners Plant 1																												
CD86510	Step 2 Proposal Review and Evaluation - CD Gravity Sludge Thickeners Plant 1	76	11-May-19 A	12-Jun-19 A	■ Step 2 Proposal Review and Evaluation - CD Gravity Sludge Thickeners Plant 1																												
CD86530	Negotiation Memo submitted / Approved by WASD Director - CD Gravity Sludge Thickeners Plant 1	60	13-Jun-19 A	01-Jul-19 A	■ Negotiation Memo submitted / Approved by WASD Director - CD Gravity Sludge Thickeners Plant 1																												
CD86550	Negotiations Commence - Contract provided to Firm (1st meeting) - CD Gravity Sludge Thickeners Plant 1	60	02-Jul-19 A	09-Aug-19 A	■ Negotiations Commence - Contract provided to Firm (1st meeting) - CD Gravity Sludge Thickeners Plant 1																												
CD86560	Negotiations Concluded and preparation of final Contract - CD Gravity Sludge Thickeners Plant 1	162	10-Aug-19 A	26-Sep-19 A	■ Negotiations Concluded and preparation of final Contract - CD Gravity Sludge Thickeners Plant 1																												
CD80930	EPA Compliance Date for Procurement - CD Gravity Sludge Thickeners Plant 1	0		05-Oct-19 A	◆ EPA Compliance Date for Procurement - CD Gravity Sludge Thickeners Plant 1																												
CD86570	Contract Executed by Firm and obtain County Attorney, Risk Management and OMB signatures	60	27-Sep-19 A	13-Dec-19 A	■ Contract Executed by Firm and obtain County Attorney, Risk Management and OMB signatures																												
CD86580	Submit Contract Award Recommendation/Contract for internal approvals - CD Gravity Sludge Thickeners Plant 1	21	14-Dec-19 A	28-Feb-20 A	■ Submit Contract Award Recommendation/Contract for internal approvals - CD Gravity Sludge Thickeners Plant 1																												
CD86590	Submit/Approval of Item to Agenda Coordinator for committee & BCC Ratification - CD Gravity Sludge Thickeners Plant 1	62	29-Feb-20 A	05-May-20 A	■ Submit/Approval of Item to Agenda Coordinator for committee & BCC Ratification - CD Gravity Sludge Thickeners Plant 1																												
CD10730	Procurement - CD Gravity Sludge Thickeners Plant 1	679	29-Mar-16 A	03-Jul-20	■ Procurement - CD Gravity Sludge Thickeners Plant 1																												
CD85950	Repackage and Rebid Project - CD Gravity Sludge Thickeners Plant 1	739	09-Aug-18 A	03-Jul-20	■ Repackage and Rebid Project - CD Gravity Sludge Thickeners Plant 1																												
CD86600	Issue NTP - CD Gravity Sludge Thickeners Plant 1	59	06-May-20 A	03-Jul-20	■ Issue NTP - CD Gravity Sludge Thickeners Plant 1																												
Design-Build					1335	06-Oct-19 A	26-Jun-23	26-Jun-23, Design-Build																									
CD82770	EPA Start Date for Construction - CD Gravity Sludge Thickeners Plant 1	0	06-Oct-19 A		◆ EPA Start Date for Construction - CD Gravity Sludge Thickeners Plant 1																												
CD33350	Design-Builder NTP - CD Gravity Sludge Thickeners Plant 1	0	06-Jul-20		◆ Design-Builder NTP - CD Gravity Sludge Thickeners Plant 1																												
CD32690	Final Engineering by Design-Builder - CD Gravity Sludge Thickeners Plant 1	300	06-Jul-20	01-May-21	■ Final Engineering by Design-Builder - CD Gravity Sludge Thickeners Plant 1																												
CD32700	AHJ Permit Review - CD Gravity Sludge Thickeners Plant 1	180	02-Jan-21	30-Jun-21	■ AHJ Permit Review - CD Gravity Sludge Thickeners Plant 1																												
CD80940	EPA Compliance Date for Construction - CD Gravity Sludge Thickeners Plant 1	0		13-Jan-23*	◆ EPA Compliance Date for Construction - CD Gravity Sludge Thickeners Plant 1																												
CD84760	Design-Builder Contract Duration - CD Gravity Sludge Thickeners Plant 1	966	06-Jul-20	26-Feb-23	■ Design-Builder Contract Duration - CD Gravity Sludge Thickeners Plant 1																												
CD10950	Construction - CD Gravity Sludge Thickeners Plant 1	786	02-Jan-21	26-Feb-23	■ Construction - CD Gravity Sludge Thickeners Plant 1																												
CD86290	Commissioning - CD Gravity Sludge Thickeners Plant 1	30	28-Jan-23	26-Feb-23	■ Commissioning - CD Gravity Sludge Thickeners Plant 1																												
CD11160	Substantial Completion (CD Compliance Date 1/13/23) - CD Gravity Sludge Thickeners Plant 1	0		26-Feb-23*	◆ Substantial Completion (CD Compliance Date 1/13/23) - CD Gravity Sludge Thickeners Plant 1																												

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026	
					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
CD84520	Respond to EPA re. Project Repurposing - CD Digesters Plant 1 Cluster 1	0	21-May-18 A		◆ Respond to EPA re. Project Repurposing - CD Digesters Plant 1 Cluster 1																																	
CD11312	Pre-Design - CD Digesters Plant 1 Cluster 1	27	30-Jun-20*	26-Jul-20	■ Pre-Design - CD Digesters Plant 1 Cluster 1																																	
Engineering Design					26-Mar-21, Engineering Design																																	
CD82820	EPA Start Date for Engineering Design - CD Digesters Plant 1 Cluster 1	302	01-May-20 A	28-Mar-21	◆ EPA Start Date for Engineering Design - CD Digesters Plant 1 Cluster 1																																	
CD21320	Basis of Design Report (BODR) - CD Digesters Plant 1 Cluster 1	30	27-Jul-20	25-Aug-20	■ Basis of Design Report (BODR) - CD Digesters Plant 1 Cluster 1																																	
CD21330	30% Design Submittal - CD Digesters Plant 1 Cluster 1	59	26-Aug-20	23-Oct-20	■ 30% Design Submittal - CD Digesters Plant 1 Cluster 1																																	
CD80990	EPA Compliance Date for Engineering Design - CD Digesters Plant 1 Cluster 1	0		04-Nov-20*	◆ EPA Compliance Date for Engineering Design - CD Digesters Plant 1 Cluster 1																																	
CD21340	30% Design Review - CD Digesters Plant 1 Cluster 1	14	24-Oct-20	06-Nov-20	■ 30% Design Review - CD Digesters Plant 1 Cluster 1																																	
CD21350	60% Design Submittal - CD Digesters Plant 1 Cluster 1	49	07-Nov-20	25-Dec-20	■ 60% Design Submittal - CD Digesters Plant 1 Cluster 1																																	
CD21360	60% Design Review - CD Digesters Plant 1 Cluster 1	14	26-Dec-20	08-Jan-21	■ 60% Design Review - CD Digesters Plant 1 Cluster 1																																	
CD21370	100% Design Submittal - CD Digesters Plant 1 Cluster 1	49	09-Jan-21	26-Feb-21	■ 100% Design Submittal - CD Digesters Plant 1 Cluster 1																																	
CD11260	Engineering Design - CD Digesters Plant 1 Cluster 1	245	27-Jul-20	28-Mar-21	■ Engineering Design - CD Digesters Plant 1 Cluster 1																																	
CD40390	100% Design Review/Permit Ready Submittal - CD Digesters Plant 1 Cluster 1	30	27-Feb-21	28-Mar-21	■ 100% Design Review/Permit Ready Submittal - CD Digesters Plant 1 Cluster 1																																	
Permitting					04-Nov-21, Permitting																																	
CD82830	EPA Start Date for Permitting - CD Digesters Plant 1 Cluster 1	0	05-Nov-20*		◆ EPA Start Date for Permitting - CD Digesters Plant 1 Cluster 1																																	
CD11310	Permitting - CD Digesters Plant 1 Cluster 1	120	29-Mar-21	26-Jul-21	■ Permitting - CD Digesters Plant 1 Cluster 1																																	
CD81000	EPA Compliance Date for Permitting - CD Digesters Plant 1 Cluster 1	0		04-Nov-21*	◆ EPA Compliance Date for Permitting - CD Digesters Plant 1 Cluster 1																																	
Procurement					04-Nov-22, Procurement																																	
CD84050	Internal Bid Package Review - CD Digesters Plant 1 Cluster 1	3	27-Jul-21	29-Jul-21	■ Internal Bid Package Review - CD Digesters Plant 1 Cluster 1																																	
CD31680	Design Documents Sent to Procurement - CD Digesters Plant 1 Cluster 1	0	30-Jul-21		◆ Design Documents Sent to Procurement - CD Digesters Plant 1 Cluster 1																																	
CD31690	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 1 Cluster 1	60	30-Jul-21	27-Sep-21	■ Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 1 Cluster 1																																	
CD31700	Advertise Bid Package - CD Digesters Plant 1 Cluster 1	0	28-Sep-21		◆ Advertise Bid Package - CD Digesters Plant 1 Cluster 1																																	
CD82840	EPA Start Date for Procurement - CD Digesters Plant 1 Cluster 1	0	05-Nov-21*		◆ EPA Start Date for Procurement - CD Digesters Plant 1 Cluster 1																																	
CD31710	Bid Solicitation Period - CD Digesters Plant 1 Cluster 1	60	28-Sep-21	26-Nov-21	■ Bid Solicitation Period - CD Digesters Plant 1 Cluster 1																																	
CD31720	Bids Due - CD Digesters Plant 1 Cluster 1	0	27-Nov-21		◆ Bids Due - CD Digesters Plant 1 Cluster 1																																	
CD31730	Bid Review Period - CD Digesters Plant 1 Cluster 1	30	27-Nov-21	26-Dec-21	■ Bid Review Period - CD Digesters Plant 1 Cluster 1																																	
CD31740	Award Recommendation - CD Digesters Plant 1 Cluster 1	0		26-Dec-21	◆ Award Recommendation - CD Digesters Plant 1 Cluster 1																																	
CD11430	Procurement - CD Digesters Plant 1 Cluster 1	270	30-Jul-21	25-Apr-22	■ Procurement - CD Digesters Plant 1 Cluster 1																																	
CD31750	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 1 Cluster 1	120	27-Dec-21	25-Apr-22	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 1 Cluster 1																																	
CD81010	EPA Compliance Date for Procurement - CD Digesters Plant 1 Cluster 1	0		04-Nov-22*	◆ EPA Compliance Date for Procurement - CD Digesters Plant 1 Cluster 1																																	
Construction					18-Jun-24, Construction																																	
CD11538	Contractor Notice to Proceed (NTP) - CD Digesters Plant 1 Cluster 1	0	26-Apr-22		◆ Contractor Notice to Proceed (NTP) - CD Digesters Plant 1 Cluster 1																																	
CD82850	EPA Start Date for Construction - CD Digesters Plant 1 Cluster 1	0	05-Nov-22*		◆ EPA Start Date for Construction - CD Digesters Plant 1 Cluster 1																																	
CD11540	Construction - CD Digesters Plant 1 Cluster 1	592	26-Apr-22	08-Dec-23	■ Construction - CD Digesters Plant 1 Cluster 1																																	
CD11620	Substantial Completion (CD Compliance Date 6/18/24) - CD Digesters Plant 1 Cluster 1	0		08-Dec-23*	◆ Substantial Completion (CD Compliance Date 6/18/24) - CD Digesters Plant 1 Cluster 1																																	
CD40120	Project Closeout - CD Digesters Plant 1 Cluster 1	90	09-Dec-23	07-Mar-24*	■ Project Closeout - CD Digesters Plant 1 Cluster 1																																	
CD81020	EPA Compliance Date for Construction - CD Digesters Plant 1 Cluster 1	0		18-Jun-24*	◆ EPA Compliance Date for Construction - CD Digesters Plant 1 Cluster 1																																	
Project Administration					07-Mar-24, Project Administration																																	
CD34070	WASD Project Administration - CD Digesters Plant 1 Cluster 1	1320	27-Jul-20	07-Mar-24	■ WASD Project Administration - CD Digesters Plant 1 Cluster 1																																	
2.14.2 Cluster 2					19-Jan-26																																	
Pre-Design					27-Jul-20, Pre-Design																																	
CD86150	Respond to EPA re. Project Repurposing - CD Digesters Plant 1 Cluster 2	0	21-May-18 A		◆ Respond to EPA re. Project Repurposing - CD Digesters Plant 1 Cluster 2																																	
CD11322	Pre-Design - CD Digesters Plant 1 Cluster 2	28	30-Jun-20*	27-Jul-20	■ Pre-Design - CD Digesters Plant 1 Cluster 2																																	
Engineering Design					06-Jun-22, Engineering Design																																	
CD21380	Basis of Design Report (BODR) - CD Digesters Plant 1 Cluster 2	29	28-Jul-20	25-Aug-20	■ Basis of Design Report (BODR) - CD Digesters Plant 1 Cluster 2																																	
CD21390	30% Design Submittal - CD Digesters Plant 1 Cluster 2	59	26-Aug-20	23-Oct-20	■ 30% Design Submittal - CD Digesters Plant 1 Cluster 2																																	
CD21400	30% Design Review - CD Digesters Plant 1 Cluster 2	14	24-Oct-20	06-Nov-20	■ 30% Design Review - CD Digesters Plant 1 Cluster 2																																	
CD21410	60% Design Submittal - CD Digesters Plant 1 Cluster 2	49	07-Nov-20	25-Dec-20	■ 60% Design Submittal - CD Digesters Plant 1 Cluster 2																																	
CD21420	60% Design Review - CD Digesters Plant 1 Cluster 2	14	26-Dec-20	08-Jan-21	■ 60% Design Review - CD Digesters Plant 1 Cluster 2																																	
CD21430	100% Design Submittal - CD Digesters Plant 1 Cluster 2	80	09-Jan-21	29-Mar-21	■ 100% Design Submittal - CD Digesters Plant 1 Cluster 2																																	
CD11440	Engineering Design - CD Digesters Plant 1 Cluster 2	275	28-Jul-20	28-Apr-21	■ Engineering Design - CD Digesters Plant 1 Cluster 2																																	
CD40400	100% Design Review/Permit Ready Submittal - CD Digesters Plant 1 Cluster 2	30	30-Mar-21	28-Apr-21	■ 100% Design Review/Permit Ready Submittal - CD Digesters Plant 1 Cluster 2																																	
CD82860	EPA Start Date for Engineering Design - CD Digesters Plant 1 Cluster 2	0	01-Dec-21*		◆ EPA Start Date for Engineering Design - CD Digesters Plant 1 Cluster 2																																	
CD81030	EPA Compliance Date for Engineering Design - CD Digesters Plant 1 Cluster 2	0		06-Jun-22*	◆ EPA Compliance Date for Engineering Design - CD Digesters Plant 1 Cluster 2																																	
Permitting					06-Jun-23, Permitting																																	
CD11470	Permitting - CD Digesters Plant 1 Cluster 2	149	29-Apr-21	24-Sep-21	■ Permitting - CD Digesters Plant 1 Cluster 2																																	
CD82870	EPA Start Date for Permitting - CD Digesters Plant 1 Cluster 2	0	07-Jun-22*		◆ EPA Start Date for Permitting - CD Digesters Plant 1 Cluster 2																																	
CD81040	EPA Compliance Date for Permitting - CD Digesters Plant 1 Cluster 2	0		06-Jun-23*	◆ EPA Compliance Date for Permitting - CD Digesters Plant 1 Cluster 2																																	
Procurement					05-Jun-24, Procurement																																	
CD84060	Internal Bid Package Review - CD Digesters Plant 1 Cluster 2	3	25-Sep-21	27-Sep-21	■ Internal Bid Package Review - CD Digesters Plant 1 Cluster 2																																	
CD31760	Design Documents Sent to Procurement - CD Digesters Plant 1 Cluster 2	0	28-Sep-21		◆ Design Documents Sent to Procurement - CD Digesters Plant 1 Cluster 2																																	
CD31770	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 1 Cluster 2	60	28-Sep-21	26-Nov-21	■ Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 1 Cluster 2																																	
CD31780	Advertise Bid Package - CD Digesters Plant 1 Cluster 2	0	27-Nov-21		◆ Advertise Bid Package - CD Digesters Plant 1 Cluster 2																																	
CD31790	Bid Solicitation Period - CD Digesters Plant 1 Cluster 2	60	27-Nov-21	25-Jan-22	■ Bid Solicitation Period - CD Digesters Plant 1 Cluster 2																																	
CD31800	Bids Due - CD Digesters Plant 1 Cluster 2	0	26-Jan-22		◆ Bids Due - CD Digesters Plant 1 Cluster 2																																	
CD31810	Bid Review Period - CD Digesters Plant 1 Cluster 2	30	26-Jan-22	24-Feb-22	■ Bid Review Period - CD Digesters Plant 1 Cluster 2																																	
CD31820	Award Recommendation - CD Digesters Plant 1 Cluster 2	0		24-Feb-22	◆ Award Recommendation - CD Digesters Plant 1 Cluster 2																																	
CD11550	Procurement - CD Digesters Plant 1 Cluster 2	270	28-Sep-21	24-Jun-22	■ Procurement - CD Digesters Plant 1 Cluster 2																																	
CD31830	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 1 Cluster 2	120	25-Feb-22	24-Jun-22	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 1 Cluster 2																																	
CD82880	EPA Start Date for Procurement - CD Digesters Plant 1 Cluster 2	0	07-Jun-23*		◆ EPA Start Date for Procurement - CD Digesters Plant 1 Cluster 2																																	
CD81050	EPA Compliance Date for Procurement - CD Digesters Plant 1 Cluster 2	0		05-Jun-24*	◆ EPA Compliance Date for Procurement - CD Digesters Plant 1 Cluster 2																																	
Construction					19-Jan-26																																	
CD84800	Construction - CD Digesters Plant 1 Covers Demolition	365	14-Mar-17 A	24-Jun-18 A	■ Construction - CD Digesters Plant 1 Covers Demolition																																	
CD11608	Contractor Notice to Proceed (NTP) - CD Digesters Plant 1 Cluster 2	0	25-Jun-22		◆ Contractor Notice to Proceed (NTP) - CD Digesters Plant 1 Cluster 2																																	

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																											
					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		
CD31870	Bid Solicitation Period - CD Digesters Plant 2 Cluster 2	60	05-Jan-18 A	22-Feb-18 A	Bid Solicitation Period - CD Digesters Plant 2 Cluster 2																											
CD31880	Bids Due - CD Digesters Plant 2 Cluster 2	0	23-Feb-18 A		Bids Due - CD Digesters Plant 2 Cluster 2																											
CD31890	Bid Review Period - CD Digesters Plant 2 Cluster 2	41	23-Feb-18 A	18-May-18 A	Bid Review Period - CD Digesters Plant 2 Cluster 2																											
CD31900	Award Recommendation - CD Digesters Plant 2 Cluster 2	0		18-May-18 A	Award Recommendation - CD Digesters Plant 2 Cluster 2																											
CD10760	Procurement - CD Digesters Plant 2 Cluster 2	385	25-Jul-17 A	09-Jul-18 A	Procurement - CD Digesters Plant 2 Cluster 2																											
CD31910	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 2	89	19-May-18 A	09-Jul-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 2																											
CD82960	EPA Start Date for Procurement - CD Digesters Plant 2 Cluster 2	0	08-Dec-19 A		EPA Start Date for Procurement - CD Digesters Plant 2 Cluster 2																											
CD81130	EPA Compliance Date for Procurement - CD Digesters Plant 2 Cluster 2	0		06-Dec-20*	EPA Compliance Date for Procurement - CD Digesters Plant 2 Cluster 2																											
Construction					18-Jun-23, Construction																											
CD10978	Contractor Notice to Proceed (NTP) - CD Digesters Plant 2 Cluster 2	0	10-Jul-18 A		Contractor Notice to Proceed (NTP) - CD Digesters Plant 2 Cluster 2																											
CD82970	EPA Start Date for Construction - CD Digesters Plant 2 Cluster 2	0	07-Dec-20*		EPA Start Date for Construction - CD Digesters Plant 2 Cluster 2																											
CD10980	Construction - CD Digesters Plant 2 Cluster 2	450	10-Jul-18 A	09-Oct-21	Construction - CD Digesters Plant 2 Cluster 2																											
CD86320	Commissioning - CD Digesters Plant 2 Cluster 2	14	26-Sep-21	09-Oct-21	Commissioning - CD Digesters Plant 2 Cluster 2																											
CD11170	Substantial Completion (CD Compliance Date 6/18/23) - CD Digesters Plant 2 Cluster 2	0		09-Oct-21*	Substantial Completion (CD Compliance Date 6/18/23) - CD Digesters Plant 2 Cluster 2																											
CD40150	Project Closeout - CD Digesters Plant 2 Cluster 2	60	10-Oct-21	08-Dec-21*	Project Closeout - CD Digesters Plant 2 Cluster 2																											
CD81140	EPA Compliance Date for Construction - CD Digesters Plant 2 Cluster 2	0		18-Jun-23*	EPA Compliance Date for Construction - CD Digesters Plant 2 Cluster 2																											
Project Administration					08-Dec-21, Project Administration																											
CD34100	WASD Project Administration - CD Digesters Plant 2 Cluster 2	1837	05-May-15 A	08-Dec-21	WASD Project Administration - CD Digesters Plant 2 Cluster 2																											
2.15.3 Cluster 3					18-Jun-23, 2.15.3 Cluster 3																											
Pre-Design					17 A, Pre-Design																											
CD12191	Pre-Design - CD Digesters Plant 2 Cluster 3	483	13-Apr-16 A	09-Aug-17 A	Pre-Design - CD Digesters Plant 2 Cluster 3																											
Engineering Design					07-Dec-18 A, Engineering Design																											
CD84250	Field Investigations - CD Digesters Plant 2 Cluster 3	31	09-Aug-17 A	08-Sep-17 A	Field Investigations - CD Digesters Plant 2 Cluster 3																											
CD82980	EPA Start Date for Design - CD Digesters Plant 2 Cluster 3	0	10-Jan-18 A		EPA Start Date for Design - CD Digesters Plant 2 Cluster 3																											
CD84260	100% Design Submittal - CD Digesters Plant 2 Cluster 3	47	11-Sep-17 A	25-Jan-18 A	100% Design Submittal - CD Digesters Plant 2 Cluster 3																											
CD10300	Engineering Design - CD Digesters Plant 2 Cluster 3	203	09-Aug-17 A	14-Mar-18 A	Engineering Design - CD Digesters Plant 2 Cluster 3																											
CD40460	100% Design Review/Permit Ready Submittal - CD Digesters Plant 2 Cluster 3	22	26-Jan-18 A	14-Mar-18 A	100% Design Review/Permit Ready Submittal - CD Digesters Plant 2 Cluster 3																											
CD81150	EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 3	0		07-Dec-18 A	EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 3																											
Permitting					14-Sep-20, Permitting																											
CD85800	DERM Permit - CD Digesters Plant 2 Cluster 3	180	14-Mar-18 A	13-Apr-18 A	DERM Permit - CD Digesters Plant 2 Cluster 3																											
CD82990	EPA Start Date for Permitting - CD Digesters Plant 2 Cluster 3	0	08-Dec-18 A		EPA Start Date for Permitting - CD Digesters Plant 2 Cluster 3																											
CD10400	Permitting - CD Digesters Plant 2 Cluster 3	0	14-Mar-18 A	01-Apr-19 A	Permitting - CD Digesters Plant 2 Cluster 3																											
CD85810	City of Miami Building Permit - CD Digesters Plant 2 Cluster 3	90	14-Apr-18 A	01-Apr-19 A	City of Miami Building Permit - CD Digesters Plant 2 Cluster 3																											
CD81670	EPA Compliance Date for Permitting - CD Digesters Plant 2 Cluster 3	0		07-Dec-19 A	EPA Compliance Date for Permitting - CD Digesters Plant 2 Cluster 3																											
CD87310	Re-Permitting - CD Digesters Plant 2 Cluster 3	62	15-Jul-20*	14-Sep-20	Re-Permitting - CD Digesters Plant 2 Cluster 3																											
Procurement					13-Feb-21, Procurement																											
CD84080	Internal Bid Package Review - CD Digesters Plant 2 Cluster 3	31	08-Dec-18 A	22-Jan-19 A	Internal Bid Package Review - CD Digesters Plant 2 Cluster 3																											
CD31920	Design Documents Sent to Procurement - CD Digesters Plant 2 Cluster 3	0	31-Jan-19 A		Design Documents Sent to Procurement - CD Digesters Plant 2 Cluster 3																											
CD31930	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 2 Cluster 3	60	31-Jan-19 A	03-Apr-19 A	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 2 Cluster 3																											
CD31940	Advertise Bid Package - CD Digesters Plant 2 Cluster 3	0	02-May-19 A		Advertise Bid Package - CD Digesters Plant 2 Cluster 3																											
CD87200	Bid Postponement - CD Digesters Plant 2 Cluster 3	0	13-May-19 A		Bid Postponement - CD Digesters Plant 2 Cluster 3																											
CD83000	EPA Start Date for Procurement - CD Digesters Plant 2 Cluster 3	0	08-Dec-19 A		EPA Start Date for Procurement - CD Digesters Plant 2 Cluster 3																											
CD87220	Revised Internal Bid Package Review - CD Digesters Plant 2 Cluster 3	60	12-Mar-20 A	29-Mar-20 A	Revised Internal Bid Package Review - CD Digesters Plant 2 Cluster 3																											
CD87230	Design Documents Sent to Procurement (Re-bid) - CD Digesters Plant 2 Cluster 3	0	30-Mar-20 A		Design Documents Sent to Procurement (Re-bid) - CD Digesters Plant 2 Cluster 3																											
CD87240	Submit/Approve SBD Goals and Request to Advertise (Re-bid) - CD Digesters Plant 2 Cluster 3	60	31-Mar-20 A	02-Aug-20	Submit/Approve SBD Goals and Request to Advertise (Re-bid) - CD Digesters Plant 2 Cluster 3																											
CD87250	Advertise Bid Package (Re-bid) - CD Digesters Plant 2 Cluster 3	0	03-Aug-20		Advertise Bid Package (Re-bid) - CD Digesters Plant 2 Cluster 3																											
CD31950	Bid Solicitation Period - CD Digesters Plant 2 Cluster 3	60	03-Aug-20	01-Oct-20	Bid Solicitation Period - CD Digesters Plant 2 Cluster 3																											
CD31960	Bids Due - CD Digesters Plant 2 Cluster 3	0	02-Oct-20		Bids Due - CD Digesters Plant 2 Cluster 3																											
CD31970	Bid Review Period - CD Digesters Plant 2 Cluster 3	30	02-Oct-20	31-Oct-20	Bid Review Period - CD Digesters Plant 2 Cluster 3																											
CD31980	Award Recommendation - CD Digesters Plant 2 Cluster 3	0		31-Oct-20	Award Recommendation - CD Digesters Plant 2 Cluster 3																											
CD81170	EPA Compliance Date for Procurement - CD Digesters Plant 2 Cluster 3	0		06-Dec-20*	EPA Compliance Date for Procurement - CD Digesters Plant 2 Cluster 3																											
CD10640	Procurement - CD Digesters Plant 2 Cluster 3	268	31-Jan-19 A	13-Feb-21	Procurement - CD Digesters Plant 2 Cluster 3																											
CD31990	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 3	105	01-Nov-20	13-Feb-21	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 3																											
Construction					18-Jun-23, Construction																											
CD83010	EPA Start Date for Construction - CD Digesters Plant 2 Cluster 3	0	07-Dec-20*		EPA Start Date for Construction - CD Digesters Plant 2 Cluster 3																											
CD10878	Contractor Notice to Proceed (NTP) - CD Digesters Plant 2 Cluster 3	0	09-Apr-21		Contractor Notice to Proceed (NTP) - CD Digesters Plant 2 Cluster 3																											
CD10880	Construction - CD Digesters Plant 2 Cluster 3	550	09-Apr-21	10-Oct-22	Construction - CD Digesters Plant 2 Cluster 3																											
CD86330	Commissioning - CD Digesters Plant 2 Cluster 3	30	11-Sep-22	10-Oct-22	Commissioning - CD Digesters Plant 2 Cluster 3																											
CD11140	Substantial Completion (CD Compliance Date 6/18/23) - CD Digesters Plant 2 Cluster 3	0		10-Oct-22*	Substantial Completion (CD Compliance Date 6/18/23) - CD Digesters Plant 2 Cluster 3																											
CD40160	Project Closeout - CD Digesters Plant 2 Cluster 3	90	11-Oct-22	08-Jan-23*	Project Closeout - CD Digesters Plant 2 Cluster 3																											
CD81180	EPA Compliance Date for Construction - CD Digesters Plant 2 Cluster 3	0		18-Jun-23*	EPA Compliance Date for Construction - CD Digesters Plant 2 Cluster 3																											
Project Administration					08-Jan-23, Project Administration																											
CD34110	WASD Project Administration - CD Digesters Plant 2 Cluster 3	1245	09-Aug-17 A	08-Jan-23	WASD Project Administration - CD Digesters Plant 2 Cluster 3																											
2.15.4 Cluster 4					26-Jun-23, 2.15.4 Cluster 4																											
Pre-Design					Child Project Deleted as approved by EPA																											
CD87020	Child Project Deleted as approved by EPA	0	28-Jul-16 A	28-Jul-16 A	Child Project Deleted as approved by EPA																											
2.16 Dewatering Building					7 A, Engineering Design																											
Pre-Design					Building																											
CD12211	Pre-Design - CD Dewatering Building	86	02-Feb-15 A	29-Apr-15 A	Pre-Design - CD Dewatering Building																											
Engineering Design					Engineering Design - CD Dewatering Building																											
CD21180	Basis of Design Report (BODR) - CD Dewatering Building	87	02-Feb-15 A	29-Apr-15 A	Basis of Design Report (BODR) - CD Dewatering Building																											
CD21190	BODR Review Period - CD Dewatering Building	36	23-Dec-15 A	27-Jan-16 A	BODR Review Period - CD Dewatering Building																											
CD10170	Engineering Design - CD Dewatering Building	335	30-Apr-15 A	29-Mar-16 A	Engineering Design - CD Dewatering Building																											
CD41110	Issue Final RDBS - CD Dewatering Building	0		29-Mar-16 A	Issue Final RDBS - CD Dewatering Building																											

Activity ID	Activity Name	Original Duration	Start	Finish	Timeline (2018-2026)																																			
					2018				2019				2020				2021				2022				2023				2024				2025				2026			
					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
CD32720	Design Criteria Package Initial Submittal - CD Dewatering Building	90	28-Jan-16 A	26-Apr-16 A	-																																			
CD32740	DCP Design Review - CD Dewatering Building	23	27-Apr-16 A	19-May-16 A	-																																			
CD83060	EPA Start Date for Engineering Design - CD Dewatering Building	0	01-Jun-16 A		-																																			
CD33660	Pilot Testing of Thickening Process - CD Dewatering Building	298	04-Jan-16 A	27-Oct-16 A	-																																			
CD32760	Final DCP Submittal - CD Dewatering Building	188	20-May-16 A	23-Nov-16 A	-																																			
CD81390	EPA Compliance Date for Engineering Design - CD Dewatering Building	0		01-Aug-17 A	-																																			
Permitting					-																																			
CD32780	FDEP Permit - CD Dewatering Building	126	29-Jan-16 A	02-Jun-16 A	-																																			
CD87150	FDEP Permit (Revised BODR) - CD Dewatering Building	60	19-Mar-19 A	05-Mar-20 A	-																																			
Procurement					-																																			
CD33520	RDBS Sent to Procurement - CD Dewatering Building	0	29-Mar-16 A		-																																			
CD33530	Submit/Approve SBD Goals and Request to Advertise - CD Dewatering Building	113	29-Mar-16 A	19-Jul-16 A	-																																			
CD33540	Advertise RDBS - CD Dewatering Building	0	20-Jul-16 A		-																																			
CD33550	Request for Qualifications - CD Dewatering Building	59	20-Jul-16 A	16-Sep-16 A	-																																			
CD33560	Qualifications Package Due - CD Dewatering Building	0	17-Sep-16 A		-																																			
CD33570	Qualification Review Period - CD Dewatering Building	91	17-Sep-16 A	16-Dec-16 A	-																																			
CD33580	Shortlist Published - CD Dewatering Building	0		16-Dec-16 A	-																																			
CD33590	Request for Proposals - CD Dewatering Building	101	24-Jan-17 A	04-May-17 A	-																																			
CD33600	Proposals Due - CD Dewatering Building	0	05-May-17 A		-																																			
CD33610	Proposal Review Period & Oral Presentations - CD Dewatering Building	112	05-May-17 A	24-Aug-17 A	-																																			
CD33620	Award Recommendation - CD Dewatering Building	0	25-Aug-17 A		-																																			
CD33630	Contract Negotiations - CD Dewatering Building	53	25-Aug-17 A	17-Nov-17 A	-																																			
CD33640	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Dewatering Building	79	18-Nov-17 A	01-May-18 A	-																																			
CD86130	Bid Cancellation - CD Dewatering Building	0		30-May-18 A	-																																			
CD86190	TA Re-Negotiation and Approval - CD Dewatering Building	60	11-May-18 A	23-Jul-18 A	-																																			
CD83080	EPA Start Date for Procurement - CD Dewatering Building	0	02-Aug-18 A		-																																			
CD86790	Receipt of Revised Scope of Services, Submit DRAFT Review item to ISD/SBD for future solicitation, review and comments	20	09-Aug-18 A	28-Aug-18 A	-																																			
CD86800	Submit approved Review Item to SBD, Receipt of SBD Worksheet, Request to Advertise; approval from WASD and OMB	40	19-Sep-18 A	08-Nov-18 A	-																																			
CD86810	Project Advertisement (after signed RTA) - CD Dewatering Building	0		08-Nov-18 A	-																																			
CD86840	Select and Approve Competitive Selection Committee (CSC) - CD Dewatering Building	40	19-Sep-18 A	04-Jan-19 A	-																																			
CD86820	Step 1 - Submittal Due Date - CD Dewatering Building	40	09-Nov-18 A	11-Jan-19 A	-																																			
CD86830	Step 1 - Qualifications Evaluation/Meeting - CD Dewatering Building	30	12-Jan-19 A	06-Mar-19 A	-																																			
CD87010	Issue DCP and Request for Proposals - CD Dewatering Building	15	12-Mar-19 A	19-Mar-19 A	-																																			
CD86860	Step 2 Submittal Due Date - CD Dewatering Building	54	18-Mar-19 A	10-May-19 A	-																																			
CD86880	Step 2 Meeting - CD Dewatering Building	30	10-May-19 A	12-Jun-19 A	-																																			
CD86870	Step 2 Proposal Review and Evaluation - CD Dewatering Building	76	11-May-19 A	12-Jun-19 A	-																																			
CD86890	Negotiation Memo submitted / Approved by WASD Director - CD Dewatering Building	60	13-Jun-19 A	01-Jul-19 A	-																																			
CD81410	EPA Compliance Date for Procurement - CD Dewatering Building - CD Dewatering Building	0		01-Aug-19 A	-																																			
CD86910	Negotiations Commence - Contract provided to Firm (1st meeting) - CD Dewatering Building	60	02-Jul-19 A	09-Aug-19 A	-																																			
CD86920	Negotiations Concluded and preparation of final Contract - CD Dewatering Building	162	10-Aug-19 A	26-Sep-19 A	-																																			
CD86930	Contract Executed by Firm and obtain County Attorney, Risk Management and OMB signatures	78	27-Sep-19 A	13-Dec-19 A	-																																			
CD86940	Submit Contract Award Recommendation/Contract for internal approvals - CD Dewatering Building	21	14-Dec-19 A	28-Feb-20 A	-																																			
CD86950	Submit item to Agenda Coordinator for committee & BCC Ratification - CD Dewatering Building	62	29-Feb-20 A	05-May-20 A	-																																			
CD10440	Procurement - CD Dewatering Building	679	29-Mar-16 A	03-Jul-20	-																																			
CD85970	Repackage and Rebid Project - CD Dewatering Building	739	09-Aug-18 A	03-Jul-20	-																																			
CD86960	Issue NTP - CD Dewatering Building	59	06-May-20 A	03-Jul-20	-																																			
Design-Build					-																																			
CD83090	EPA Start Date for Construction - CD Dewatering Building	0	02-Aug-19 A		-																																			
CD33650	Design-Builder NTP - CD Dewatering Building	0	06-Jul-20		-																																			
CD32790	Final Engineering by Design-Builder - CD Dewatering Building	300	06-Jul-20	01-May-21	-																																			
CD32800	AHJ Permit Review - CD Dewatering Building	180	02-Jan-21	30-Jun-21	-																																			
CD81420	EPA Compliance Date for Construction - CD Dewatering Building	0		13-Jan-23*	-																																			
CD84780	Design-Builder Contract Duration - CD Dewatering Building	966	06-Jul-20	26-Feb-23	-																																			
CD10670	Construction - CD Dewatering Building	786	02-Jan-21	26-Feb-23	-																																			
CD86340	Commissioning - CD Dewatering Building	30	28-Jan-23	26-Feb-23	-																																			
CD11080	Substantial Completion (CD Compliance Date 1/13/23) - CD Dewatering Building	0		26-Feb-23*	-																																			
CD40180	Project Closeout - CD Dewatering Building	120	27-Feb-23	26-Jun-23*	-																																			
Project Administration					-																																			
CD34130	WASD Project Administration - CD Dewatering Building	2086	30-Apr-15 A	26-Jun-23	-																																			
2.17 Chlorination Facilities					-																																			
Engineering Design					-																																			
CD34130	WASD Project Administration - CD Chlorination Facilities	2086	30-Apr-15 A	26-Jun-23	-																																			
Permitting					-																																			
CD34130	WASD Project Administration - CD Chlorination Facilities	691	08-Sep-14 A	30-Jul-16 A	-																																			
Procurement					-																																			
CD34130	WASD Project Administration - CD Chlorination Facilities	582	16-Nov-15 A	20-Jun-17 A	-																																			
Construction					-																																			
CD10498	Contractor Notice to Proceed (NTP) - CD Chlorination Facilities	926	18-Apr-16 A	15-Aug-20	-																																			
CD83130	EPA Start Date for Construction - CD Chlorination Facilities	0	18-Apr-16 A		-																																			
CD10500	Construction - CD Chlorination Facilities	580	18-Apr-16 A	27-Jul-18 A	-																																			
CD86350	Commissioning - CD Chlorination Facilities	30	26-Jun-18 A	27-Jul-18 A	-																																			
CD10700	Substantial Completion (CD Compliance Date 10/15/18) - CD Chlorination Facilities	0		27-Jul-18 A	-																																			
CD81460	EPA Compliance Date for Construction - CD Chlorination Facilities	0		15-Oct-18 A	-																																			
CD40190	Project Closeout - CD Chlorination Facilities	15	11-Aug-18 A	15-Aug-20*	-																																			
Project Administration					-																																			
CD34140	WASD Project Administration - CD Chlorination Facilities	1600	01-Oct-13 A	15-Aug-20	-																																			
2.18 Odor Control Systems					-																																			
Engineering Design					-																																			
Permitting					-																																			
Procurement					-																																			
Construction					-																																			
Project Administration					-																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																											
					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		
Engineering Design					Engineering Design																											
CD10280	Engineering Design - CD Odor Control Systems	541	06-Oct-14 A	17-Jun-17 A	Engineering Design - CD Odor Control Systems																											
CD83140	EPA Start Date for Engineering Design - CD Odor Control Systems	0	01-Oct-16 A		EPA Start Date for Engineering Design - CD Odor Control Systems																											
CD81470	EPA Compliance Date for Engineering Design - CD Odor Control Systems	0		17-Jun-17 A	EPA Compliance Date for Engineering Design - CD Odor Control Systems																											
Permitting					Permitting																											
CD10410	Permitting (Summary) - CD Odor Control Systems	190	29-Jan-16 A	05-Aug-16 A	Permitting (Summary) - CD Odor Control Systems																											
CD83150	EPA Start Date for Permitting - CD Odor Control Systems	0	18-Jun-17 A		EPA Start Date for Permitting - CD Odor Control Systems																											
CD81480	EPA Compliance Date for Permitting - CD Odor Control Systems	0		17-Jun-18 A	EPA Compliance Date for Permitting - CD Odor Control Systems																											
Procurement					Procurement																											
CD83160	EPA Start Date for Procurement - CD Odor Control Systems	0	18-Jun-18 A		EPA Start Date for Procurement - CD Odor Control Systems																											
CD81490	EPA Compliance Date for Procurement - CD Odor Control Systems - CD Odor Control Systems	0		17-Jun-19 A	EPA Compliance Date for Procurement - CD Odor Control Systems - CD Odor Control Systems																											
CD10650	Procurement (Summary) - CD Odor Control Systems - CD Odor Control Systems	701	07-Mar-16 A	03-Jul-20	Procurement (Summary) - CD Odor Control Systems - CD Odor Control Systems																											
Construction					Construction																											
CD83170	EPA Start Date for Construction - CD Odor Control Systems	0	18-Jun-19 A		EPA Start Date for Construction - CD Odor Control Systems																											
CD81500	EPA Compliance Date for Construction - CD Odor Control Systems	0		13-Jan-23*	EPA Compliance Date for Construction - CD Odor Control Systems																											
CD10890	Construction (Summary) - CD Odor Control Systems	1508	30-Aug-16 A	26-Feb-23	Construction (Summary) - CD Odor Control Systems																											
CD11070	Substantial Completion (CD Compliance Date 1/13/23) - CD Odor Control Systems	0		26-Feb-23*	Substantial Completion (CD Compliance Date 1/13/23) - CD Odor Control Systems																											
Project Administration					Project Administration																											
CD34150	WASD Project Administration - CD Odor Control Systems	2292	06-Oct-14 A	26-Jun-23	WASD Project Administration - CD Odor Control Systems																											
2.18 (1) Headworks Odor Controls System (Project 2.03/2.04)					2.18 (1) Headworks Odor Controls System (Project 2.03/2.04)																											
Engineering Design					Engineering Design																											
CD21270	Engineering Design (Headworks) - CD Odor Control Systems	479	06-Oct-14 A	28-Jan-16 A	Engineering Design (Headworks) - CD Odor Control Systems																											
Permitting					Permitting																											
CD40410	Permitting (Headworks) - CD Odor Control Systems	190	29-Jan-16 A	05-Aug-16 A	Permitting (Headworks) - CD Odor Control Systems																											
Procurement					Procurement																											
CD32250	Procurement (Headworks) - CD Odor Control Systems	176	07-Mar-16 A	29-Aug-16 A	Procurement (Headworks) - CD Odor Control Systems																											
Construction					Construction																											
CD40430	Construction (Headworks) - CD Odor Control Systems	560	30-Aug-16 A	11-Sep-19 A	Construction (Headworks) - CD Odor Control Systems																											
Project Administration					Project Administration																											
CD85200	WASD Project Administration - CD Odor Control Systems	621	06-Oct-14 A	11-Sep-19 A	WASD Project Administration - CD Odor Control Systems																											
2.18 (2) Dewatering Odor Control System (Project 2.16)					2.18 (2) Dewatering Odor Control System (Project 2.16)																											
Engineering Design					Engineering Design																											
CD21290	Engineering Design (Dewatering) - CD Odor Control Systems	334	01-May-15 A	29-Mar-16 A	Engineering Design (Dewatering) - CD Odor Control Systems																											
Procurement					Procurement																											
CD32270	Procurement (Dewatering) - CD Odor Control Systems	679	29-Mar-16 A	03-Jul-20	Procurement (Dewatering) - CD Odor Control Systems																											
Construction					Construction																											
CD85980	Final Engineering by Design-Builder - CD Odor Control Systems	300	06-Jul-20	01-May-21	Final Engineering by Design-Builder - CD Odor Control Systems																											
CD85990	AHJ Permit Review - CD Odor Control Systems	180	02-Jan-21	30-Jun-21	AHJ Permit Review - CD Odor Control Systems																											
CD40440	Design-Builder Contract Duration (Dewatering) - CD Odor Control Systems	966	06-Jul-20	26-Feb-23	Design-Builder Contract Duration (Dewatering) - CD Odor Control Systems																											
CD86000	Construction - CD Odor Control Systems	786	02-Jan-21	26-Feb-23	Construction - CD Odor Control Systems																											
CD40200	Project Closeout - CD Odor Control Systems	120	27-Feb-23	26-Jun-23*	Project Closeout - CD Odor Control Systems																											
Project Administration					Project Administration																											
CD85210	WASD Project Administration - CD Odor Control Systems	818	01-May-15 A	26-Jun-23	WASD Project Administration - CD Odor Control Systems																											
2.19 Co-Gen Improvements					2.19 Co-Gen Improvements																											
Engineering Design					Engineering Design																											
CD83180	EPA Start Date for Engineering Design - CD Co-Gen Improvements	0	01-May-14 A		EPA Start Date for Engineering Design - CD Co-Gen Improvements																											
CD10140	Engineering Design - CD Co-Gen Improvements	1440	22-Nov-12 A	31-Oct-16 A	Engineering Design - CD Co-Gen Improvements																											
CD81510	EPA Compliance Date for Engineering Design - CD Co-Gen Improvements	0		14-Nov-16 A	EPA Compliance Date for Engineering Design - CD Co-Gen Improvements																											
Permitting					Permitting																											
CD83190	EPA Start Date for Permitting - CD Co-Gen Improvements	0	18-Aug-15 A		EPA Start Date for Permitting - CD Co-Gen Improvements																											
CD10470	Permitting - CD Co-Gen Improvements	1607	12-Mar-13 A	04-Aug-17 A	Permitting - CD Co-Gen Improvements																											
CD81520	EPA Compliance Date for Permitting - CD Co-Gen Improvements	0		29-Sep-17 A	EPA Compliance Date for Permitting - CD Co-Gen Improvements																											
Procurement					Procurement																											
CD83200	EPA Start Date for Procurement - CD Co-Gen Improvements	0	17-Aug-16 A		EPA Start Date for Procurement - CD Co-Gen Improvements																											
CD81530	EPA Compliance Date for Procurement - CD Co-Gen Improvements	0		30-Mar-18 A	EPA Compliance Date for Procurement - CD Co-Gen Improvements																											
CD10480	Procurement - CD Co-Gen Improvements	1426	12-Mar-14 A	29-Nov-18 A	Procurement - CD Co-Gen Improvements																											
Construction					Construction																											
CD83210	EPA Start Date for Construction - CD Co-Gen Improvements	0	31-Aug-17 A		EPA Start Date for Construction - CD Co-Gen Improvements																											
CD10680	Construction - CD Co-Gen Improvements	1746	30-Jul-14 A	18-May-20 A	Construction - CD Co-Gen Improvements																											
CD81540	EPA Compliance Date for Construction - CD Co-Gen Improvements	0		21-May-20 A	EPA Compliance Date for Construction - CD Co-Gen Improvements																											
CD11030	Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Improvements	0		07-Jun-21*	Substantial Completion (CD Compliance Date 5/21/20) - CD Co-Gen Improvements																											
2.19 (1) Co-Gen Generator Replacement					2.19 (1) Co-Gen Generator Replacement																											
2.19 (2)a Co-Gen Biogas Treatment Facilities					2.19 (2)a Co-Gen Biogas Treatment Facilities																											
Pre-Design					Pre-Design																											
CD12231	Pre-Design - CD Co-Gen Biogas Treatment Facilities	167	19-Dec-14 A	03-Jun-15 A	Pre-Design - CD Co-Gen Biogas Treatment Facilities																											
CD30320	Negotiate Final Design - CD Co-Gen Biogas Treatment Facilities	78	25-Sep-15 A	11-Dec-15 A	Negotiate Final Design - CD Co-Gen Biogas Treatment Facilities																											
Engineering Design					Engineering Design																											
CD21650	Alternatives Analysis Report - CD Co-Gen Biogas Treatment Facilities	119	04-Jun-15 A	30-Sep-15 A	Alternatives Analysis Report - CD Co-Gen Biogas Treatment Facilities																											
CD33680	Remaining Basis of Design Report (BODR) - CD Co-Gen Biogas Treatment Facilities	70	17-Dec-15 A	24-Feb-16 A	Remaining Basis of Design Report (BODR) - CD Co-Gen Biogas Treatment Facilities																											
CD21660	BODR Review Period - CD Co-Gen Biogas Treatment Facilities	7	25-Feb-16 A	02-Mar-16 A	BODR Review Period - CD Co-Gen Biogas Treatment Facilities																											
CD21690	60% Design Submittal - CD Co-Gen Biogas Treatment Facilities	47	14-Mar-16 A	29-Apr-16 A	60% Design Submittal - CD Co-Gen Biogas Treatment Facilities																											
CD21700	60% Design Review - CD Co-Gen Biogas Treatment Facilities	7	30-Apr-16 A	06-May-16 A	60% Design Review - CD Co-Gen Biogas Treatment Facilities																											
CD21710	100% Design Submittal - CD Co-Gen Biogas Treatment Facilities	102	07-May-16 A	16-Aug-16 A	100% Design Submittal - CD Co-Gen Biogas Treatment Facilities																											
CD12101	Engineering Design - CD Co-Gen Biogas Treatment Facilities	457	04-Jun-15 A	02-Sep-16 A	Engineering Design - CD Co-Gen Biogas Treatment Facilities																											
CD40490	100% Design Review/Permit Ready Submittal - CD Co-Gen Biogas Treatment Facilities	17	17-Aug-16 A	02-Sep-16 A	100% Design Review/Permit Ready Submittal - CD Co-Gen Biogas Treatment Facilities																											
Permitting					Permitting																											
		408	10-May-16 A	22-Jun-17 A																												

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026																			
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Permitting																								
CD83310	EPA Start Date for Permitting - CD Pump Station No. 2	678	06-Feb-15 A	15-Dec-16 A																				
CD80130	Miami 21 Zoning Permit - CD Pump Station No. 2	54	18-Apr-16 A	10-Jun-16 A																				
CD82120	DERM Permit - CD Pump Station No. 2	70	13-Apr-16 A	21-Jun-16 A																				
CD82130	FDOT Permit - CD Pump Station No. 2	11	23-Sep-16 A	03-Oct-16 A																				
CD10350	Permitting - CD Pump Station No. 2	234	13-Apr-16 A	02-Dec-16 A																				
CD80060	City of Miami Permit - CD Pump Station No. 2	159	27-Jun-16 A	02-Dec-16 A																				
CD81600	EPA Compliance Date for Permitting - CD Pump Station No. 2	0		15-Dec-16 A																				
Procurement																								
CD40550	Advertise Pre-Purchase Package (Plug Valve) - CD Pump Station No. 2	355	06-Apr-16 A	27-Mar-17 A																				
CD40560	Advertise Pre-Purchase Package (Flow Meter) - CD Pump Station No. 2	0	06-Apr-16 A																					
CD40580	Vendor Bid & Award (Plug Valve) - CD Pump Station No. 2	13	06-Apr-16 A	18-Apr-16 A																				
CD40610	Vendor NTP (Plug Valve) - CD Pump Station No. 2	0	18-Apr-16 A																					
CD40590	Vendor Bid & Award (Flow Meter) - CD Pump Station No. 2	17	06-Apr-16 A	22-Apr-16 A																				
CD40620	Vendor NTP (Flow Meter) - CD Pump Station No. 2	0	22-Apr-16 A																					
CD40540	Advertise Pre-Purchase Package (Odor Control) - CD Pump Station No. 2	0	17-Jun-16 A																					
CD40650	Fabricate & Deliver Flow Meter - CD Pump Station No. 2	60	22-Apr-16 A	20-Jun-16 A																				
CD30780	Design Documents Sent to Procurement - CD Pump Station No. 2	0	15-Jul-16 A																					
CD83320	EPA Start Date for Procurement - CD Pump Station No. 2	0	29-Jul-16 A																					
CD40570	Vendor Bid & Award (Odor Control) - CD Pump Station No. 2	54	17-Jun-16 A	09-Aug-16 A																				
CD40600	Vendor NTP (Odor Control) - CD Pump Station No. 2	0	10-Aug-16 A																					
CD30800	Advertise Bid Package - CD Pump Station No. 2	0	29-Aug-16 A																					
CD30790	Submit/Approve SBD Goals and Request to Advertise - CD Pump Station No. 2	47	15-Jul-16 A	30-Aug-16 A																				
CD30810	Bid Solicitation Period - CD Pump Station No. 2	49	29-Aug-16 A	16-Oct-16 A																				
CD30820	Bids Due - CD Pump Station No. 2	0	17-Oct-16 A																					
CD40640	Fabricate & Deliver Plug Valve - CD Pump Station No. 2	226	18-Apr-16 A	29-Nov-16 A																				
CD30830	Bid Review Period - CD Pump Station No. 2	66	17-Oct-16 A	21-Dec-16 A																				
CD30840	Award Recommendation - CD Pump Station No. 2	0		21-Dec-16 A																				
CD10580	Procurement - CD Pump Station No. 2	193	15-Jul-16 A	23-Jan-17 A																				
CD30850	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Pump Station No. 2	33	22-Dec-16 A	23-Jan-17 A																				
CD81610	EPA Compliance Date for Procurement - CD Pump Station No. 2	0		04-Feb-17 A																				
CD40630	Fabricate & Deliver Odor Control System - CD Pump Station No. 2	230	10-Aug-16 A	27-Mar-17 A																				
Construction																								
CD10818	Contractor Notice to Proceed (NTP) - CD Pump Station No. 2	0	24-Jan-17 A																					
CD83330	EPA Start Date for Construction - CD Pump Station No. 2	0	05-Feb-17 A																					
CD81620	EPA Compliance Date for Construction - CD Pump Station No. 2	0		25-May-19 A																				
CD10820	Construction - CD Pump Station No. 2	261	24-Jan-17 A	14-Aug-20																				
CD86390	Commissioning - CD Pump Station No. 2	30	19-Feb-20 A	14-Aug-20																				
CD10970	Substantial Completion (CD Compliance Date 5/25/19) - CD Pump Station No. 2	0		14-Aug-20*																				
CD40230	Project Closeout - CD Pump Station No. 2	73	15-Aug-20	26-Oct-20*																				
Project Administration																								
CD34190	WASD Project Administration - CD Pump Station No. 2	1000	13-Apr-15 A	26-Oct-20																				
2.23 O2 Plant Process Controls Phase 2																								
CD10818	Contractor Notice to Proceed (NTP) - CD Pump Station No. 2	0	24-Jan-17 A																					
CD83330	EPA Start Date for Construction - CD Pump Station No. 2	0	05-Feb-17 A																					
CD81620	EPA Compliance Date for Construction - CD Pump Station No. 2	0		25-May-19 A																				
CD10820	Construction - CD Pump Station No. 2	261	24-Jan-17 A	14-Aug-20																				
CD86390	Commissioning - CD Pump Station No. 2	30	19-Feb-20 A	14-Aug-20																				
CD10970	Substantial Completion (CD Compliance Date 5/25/19) - CD Pump Station No. 2	0		14-Aug-20*																				
CD40230	Project Closeout - CD Pump Station No. 2	73	15-Aug-20	26-Oct-20*																				
2.24 Gas Monitoring and Alarms																								
CD10818	Contractor Notice to Proceed (NTP) - CD Pump Station No. 2	0	24-Jan-17 A																					
CD83330	EPA Start Date for Construction - CD Pump Station No. 2	0	05-Feb-17 A																					
CD81620	EPA Compliance Date for Construction - CD Pump Station No. 2	0		25-May-19 A																				
CD10820	Construction - CD Pump Station No. 2	261	24-Jan-17 A	14-Aug-20																				
CD86390	Commissioning - CD Pump Station No. 2	30	19-Feb-20 A	14-Aug-20																				
CD10970	Substantial Completion (CD Compliance Date 5/25/19) - CD Pump Station No. 2	0		14-Aug-20*																				
CD40230	Project Closeout - CD Pump Station No. 2	73	15-Aug-20	26-Oct-20*																				
2.25 Ventilation Improvements																								
Engineering Design																								
CD11320	Engineering Design - CD Ventilation Improvements	2584	11-Jun-14 A	07-Jul-21																				
CD83420	EPA Start Date for Engineering Design - CD Ventilation Improvements	2187	11-Jun-14 A	11-May-17 A																				
CD81720	EPA Compliance Date for Engineering Design - CD Ventilation Improvements	0		07-Jul-21*																				
Permitting																								
CD11360	Permitting - CD Ventilation Improvements	2473	30-Sep-15 A	07-Jul-22																				
CD83430	EPA Start Date for Permitting - CD Ventilation Improvements	1891	30-Sep-15 A	08-Jan-18 A																				
CD81730	EPA Compliance Date for Permitting - CD Ventilation Improvements	0		07-Jul-22*																				
Procurement																								
CD11480	Procurement - CD Ventilation Improvements	2640	07-Mar-16 A	07-Jul-23																				
CD83440	EPA Start Date for Procurement - CD Ventilation Improvements	1963	07-Mar-16 A	10-Jun-18 A																				
CD81740	EPA Compliance Date for Procurement - CD Ventilation Improvements	0		07-Jul-23*																				
Construction																								
CD11560	Construction - CD Ventilation Improvements	3041	30-Aug-16 A	27-Feb-25																				
CD11650	Substantial Completion (CD Compliance Date 2/27/25) - CD Ventilation Improvements	2365	30-Aug-16 A	08-Apr-21																				
CD83450	EPA Start Date for Construction - CD Ventilation Improvements	0	08-Jul-23*																					
CD81750	EPA Compliance Date for Construction - CD Ventilation Improvements	0		27-Feb-25*																				
Project Administration																								
CD34220	WASD Project Administration - CD Ventilation Improvements	3328	11-Jun-14 A	08-Apr-21																				
2.25 (1) HVAC Improvements for Air Scrubber Building																								
Pre-Design																								
CD12281	Child Project Cancelled (WASD House HVAC Improvements)	0	20-Feb-19 A	20-Feb-19 A																				
2.25 (2) Headworks HVAC Improvements (Project 2.03/2.04)																								
2.25 (3) Digester Control Building HVAC Improvements (Project 2.15(1))																								
Engineering Design																								
CD70620	Engineering Design - Digester Control Building HVAC Improvements (Project 2.15(1))	475	11-Jun-14 A	29-Sep-15 A																				
CD70630	Permitting - Digester Control Building HVAC Improvements (Project 2.15(1))	329	30-Sep-15 A	24-Aug-16 A																				
Procurement																								
CD70630	Permitting - Digester Control Building HVAC Improvements (Project 2.15(1))	198	15-Apr-16 A	30-Oct-16 A																				

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																							
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2		
CD31110	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Oxygen Production	95	21-Jul-18 A	18-Dec-18 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Oxygen Production																							
Design-Build		1164	29-Mar-19 A	07-Jun-22	07-Jun-22, Design-Build																							
CD33820	Design-Builder NTP - CD Oxygen Production	0	29-Mar-19 A		Design-Builder NTP - CD Oxygen Production																							
CD84700	Construction of Site Preparation (CD 2.27(1)) - CD Oxygen Production	380	29-Mar-19 A	19-Feb-20 A	Construction of Site Preparation (CD 2.27(1)) - CD Oxygen Production																							
CD84720	Construction Completion Milestone #1 (CD Compliance Date 2/13/22) - CD Oxygen Production	0		19-Feb-20 A	Construction Completion Milestone #1 (CD Compliance Date 2/13/22) - CD Oxygen Production																							
CD33920	AHJ Permit Review - CD Oxygen Production	395	26-Sep-19 A	24-Mar-20 A	AHJ Permit Review - CD Oxygen Production																							
CD33910	Final Engineering by Design-Builder - CD Oxygen Production	445	29-Mar-19 A	24-Jul-20	Final Engineering by Design-Builder - CD Oxygen Production																							
CD84750	Design-Builder Summary (NTP to Milestone #2) - CD Oxygen Production	926	29-Mar-19 A	10-Oct-21	Design-Builder Summary (NTP to Milestone #2) - CD Oxygen Production																							
CD70930	Design-Builder Construction - CD Oxygen Production	590	25-Nov-19 A	10-Oct-21	Design-Builder Construction - CD Oxygen Production																							
CD84730	Construction Completion Milestone #2 (CD Compliance Date 2/13/22) - CD Oxygen Production	0		10-Oct-21*	Construction Completion Milestone #2 (CD Compliance Date 2/13/22) - CD Oxygen Production																							
CD85340	EPA Compliance Date for Construction - CD Oxygen Production & Site Preparation	0		13-Feb-22*	EPA Compliance Date for Construction - CD Oxygen Production & Site Preparation																							
CD84740	Construction of VPSA 2 (Non-Consent Decree) - CD Oxygen Production	162	11-Oct-21	21-Mar-22	Construction of VPSA 2 (Non-Consent Decree) - CD Oxygen Production																							
CD86400	Commissioning - CD Oxygen Production	30	20-Feb-22	21-Mar-22	Commissioning - CD Oxygen Production																							
CD11240	Substantial Completion (Non-Consent Decree) - CD Oxygen Production	0		21-Mar-22	Substantial Completion (Non-Consent Decree) - CD Oxygen Production																							
CD40270	Project Closeout - CD Oxygen Production	78	22-Mar-22	07-Jun-22*	Project Closeout - CD Oxygen Production																							
Project Administration		1993	13-Apr-15 A	07-Jun-22	07-Jun-22, Project Administration																							
CD34240	WASD Project Administration - CD Oxygen Production	1993	13-Apr-15 A	07-Jun-22	WASD Project Administration - CD Oxygen Production																							
2.28 SCADA RTU Upgrades																												
2.29 High Strength Influent Impact Study																												
2.2 CM CDWWTP CM Office & Contractor Trailers Site Prep																												
Pre-Design		168	05-Nov-15 A	21-Apr-16 A	21-Apr-16 A, Pre-Design																							
Engineering Design		200	22-Apr-16 A	08-Nov-16 A	08-Nov-16 A, Engineering Design																							
Permitting		174	08-Nov-16 A	01-May-17 A	01-May-17 A, Permitting																							
Procurement		162	02-May-17 A	19-Oct-17 A	19-Oct-17 A, Procurement																							
Construction		276	05-Feb-18 A	31-Jul-20	31-Jul-20, Construction																							
CD84650	Contractor Notice to Proceed (NTP) - CDWWTP Contractor's Trailers Site Prep	0	05-Feb-18 A		05-Feb-18 A, Contractor Notice to Proceed (NTP) - CDWWTP Contractor's Trailers Site Prep																							
CD70040	Construction - CDWWTP Contractor's Trailers Site Prep	90	05-Feb-18 A	12-Sep-18 A	12-Sep-18 A, Construction - CDWWTP Contractor's Trailers Site Prep																							
CD84660	Substantial Completion - CDWWTP Contractor's Trailers Site Prep	0		12-Sep-18 A	12-Sep-18 A, Substantial Completion - CDWWTP Contractor's Trailers Site Prep																							
CD81910	Project Closeout - Contractor's Trailers Site Prep	30	13-Sep-18 A	31-Jul-20*	31-Jul-20*, Project Closeout - Contractor's Trailers Site Prep																							
Project Administration		657	22-Apr-16 A	31-Jul-20	31-Jul-20, Project Administration																							
CD85300	WASD Project Administration - Contractor's Trailers Site Prep	657	22-Apr-16 A	31-Jul-20	31-Jul-20, WASD Project Administration - Contractor's Trailers Site Prep																							
2.2E CD Temporary Electrical Facilities																												
2.2M CDWWTP Stormwater Master Plan																												
3. North District WWTP																												
3.01 Headworks and Sludge Degritting & Transfer																												
Engineering Design		548	20-Mar-13 A	15-Aug-20	15-Aug-20, Engineering Design																							
Permitting		476	11-Jun-14 A	30-Sep-15 A	30-Sep-15 A, Permitting																							
Procurement		1116	01-Oct-14 A	15-Nov-16 A	15-Nov-16 A, Procurement																							
Construction		910	02-Nov-15 A	15-Aug-20	15-Aug-20, Construction																							
ND21360	Contractor NTP - ND Headworks & Sludge Degritting	0	04-Dec-15 A		04-Dec-15 A, Contractor NTP - ND Headworks & Sludge Degritting																							
ND70820	EPA Start Date for Construction - ND Headworks & Sludge Degritting	0	04-Dec-15 A		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	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	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	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	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	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	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	15-Aug-20*	15-Aug-20*, Project Closeout - ND Headworks & Sludge Degritting																							
Project Administration		1816	20-Mar-13 A	15-Aug-20	15-Aug-20, Project Administration																							
ND21500	WASD Project Administration - ND Headworks & Sludge Degritting	1816	20-Mar-13 A	15-Aug-20	15-Aug-20, WASD Project Administration - ND Headworks & Sludge Degritting																							
3.02 Primary Clarifiers and Odor Control																												
Engineering Design		985	03-Sep-14 A	15-May-17 A	15-May-17 A, Engineering Design																							
ND70830	EPA Start Date for Engineering Design - ND Primary Clarifiers & Odor Control	0	01-Nov-15 A		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	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	15-May-17 A, EPA Compliance Date for Engineering Design - ND Primary Clarifiers & Odor Control																							
Permitting		733	25-Oct-15 A	10-Oct-17 A	10-Oct-17 A, Permitting																							
ND70840	EPA Start Date for Permitting - ND Primary Clarifiers & Odor Control	0	10-Mar-17 A		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	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	10-Oct-17 A, Permitting - ND Primary Clarifiers & Odor Control																							
Procurement		508	07-Feb-17 A	05-Dec-18 A	05-Dec-18 A, Procurement																							
ND70850	EPA Start Date for Procurement - ND Primary Clarifiers & Odor Control*	0	06-Sep-17 A		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	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	05-Dec-18 A, Procurement - ND Primary Clarifiers & Odor Control																							
Construction		2053	23-Aug-17 A	06-Apr-23	06-Apr-23, Construction																							
ND70860	EPA Start Date for Construction - ND Primary Clarifiers & Odor Control	0	03-Jun-18 A		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	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	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*	06-Apr-23*, EPA Compliance Date for Construction - ND Primary Clarifiers & Odor Control																							
3.02 (1) Replace Mechanisms for Primary Clarifiers #4 & 6																												
Pre-Design		20	01-Dec-16 A	21-Dec-16 A	21-Dec-16 A, Pre-Design																							
Engineering Design		36	22-Dec-16 A	27-Jan-17 A	27-Jan-17 A, Engineering Design																							
Procurement		205	30-Jan-17 A	23-Aug-17 A	23-Aug-17 A, Procurement																							
Construction		605	23-Aug-17 A	31-Jul-20	31-Jul-20, Construction																							
ND71500	Contractor Notice to Proceed (NTP) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0	23-Aug-17 A		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	20-Feb-19 A	20-Feb-19 A, Construction - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																							

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																											
					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		
ND71800	Commissioning - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	14	07-Feb-19 A	20-Feb-19 A	■ Commissioning - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																											
ND71520	Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	0		20-Feb-19 A	◆ Substantial Completion (CD Compliance Date 4/06/23) - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																											
ND71530	Project Closeout - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	30	21-Feb-19 A	31-Jul-20*	■ Project Closeout - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																											
Project Administration																																
ND71730	WASD Project Administration - ND Primary Clarifiers (Replace Mechanisms #4 & 6)	696	22-Dec-16 A	31-Jul-20	■ WASD Project Administration - ND Primary Clarifiers (Replace Mechanisms #4 & 6)																											
3.02 (2) Primary Clarifiers and Odor Control (Remaining Scope of Work)																																
Pre-Design																																
ND11375	Pre-Design (MWH) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	134	25-Mar-15 A	06-Aug-15 A	■ Pre-Design (MWH) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
Engineering Design																																
ND20140	Basis of Design Report (B&C) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	330	03-Sep-14 A	29-Jul-15 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)																											
ND40380	100% Design Review/Permit Ready Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	25	24-Mar-17 A	17-Apr-17 A	■ 100% Design Review/Permit Ready Submittal - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
Permitting																																
ND70280	FDEP Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	47	25-Oct-15 A	10-Dec-15 A	■ FDEP Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND70290	RER Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	129	20-Jun-17 A	30-Jun-17 A	■ RER Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND70310	Fire Department Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	129	20-Jun-17 A	24-Aug-17 A	■ Fire Department Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND71440	Permitting - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	733	25-Oct-15 A	10-Oct-17 A	■ Permitting - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND70300	City of North Miami Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	186	24-Apr-17 A	10-Oct-17 A	■ City of North Miami Permit - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
Procurement																																
ND71550	GMOU submittal and approval - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	22	10-Jul-17 A	31-Jul-17 A	■ GMOU submittal and approval - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND71480	Internal Bid Package Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	3	30-Oct-17 A	12-Nov-17 A	■ Internal Bid Package Review - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND20880	Design Documents Sent to Procurement - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	0	14-Dec-17 A		■ Design Documents Sent to Procurement - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND20890	Submit/Approve SBD Goals and Request to Advertise - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	60	13-Nov-17 A	08-Feb-18 A	■ Submit/Approve SBD Goals and Request to Advertise - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND20900	Advertise Bid Package - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	0	09-Feb-18 A		◆ Advertise Bid Package - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND20910	Bid Solicitation Period - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	34	09-Feb-18 A	20-May-18 A	■ Bid Solicitation Period - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND20920	Bids Due - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	0	21-May-18 A		◆ Bids Due - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND20930	Bid Review Period - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	19	21-May-18 A	12-Oct-18 A	■ Bid Review Period - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND20940	Award Recommendation - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	0		12-Oct-18 A	◆ Award Recommendation - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND71450	Procurement - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	223	14-Dec-17 A	05-Dec-18 A	■ Procurement - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
ND20950	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)	60	13-Oct-18 A	05-Dec-18 A	■ Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Primary Clarifiers & Odor Control (Remaining Scope of Work)																											
Construction																																
ND10268	Contractor Notice to Proceed (NTP) - ND Primary Clarifiers & Odor Control	0	06-Dec-18 A		◆ Contractor Notice to Proceed (NTP) - ND Primary Clarifiers & Odor Control																											
ND71460	Construction - ND Primary Clarifiers & Odor Control (Remaining Scope)	999	06-Dec-18 A	30-Aug-21	■ Construction - ND Primary Clarifiers & Odor Control (Remaining Scope)																											
ND71810	Commissioning - ND Primary Clarifiers & Odor Control	30	01-Aug-21	30-Aug-21*	■ Commissioning - ND Primary Clarifiers & Odor Control																											
ND10420	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																											
ND40290	Project Closeout - ND Primary Clarifiers & Odor Control	93	31-Aug-21	01-Dec-21*	■ Project Closeout - ND Primary Clarifiers & Odor Control																											
Project Administration																																
ND21510	WASD Project Administration - ND Primary Clarifiers & Odor Control	2483	03-Sep-14 A	01-Dec-21	■ WASD Project Administration - ND Primary Clarifiers & Odor Control																											
3.03 Oxygenation Trains																																
Pre-Design																																
ND11385	Pre-Design (BODR) - ND Oxygenation Trains	150	21-Jul-17 A	01-Jun-18 A	■ Pre-Design (BODR) - ND Oxygenation Trains																											
ND71620	Pre-Design (Tank #5 Rehab) - ND Oxygenation Trains	190	25-Apr-17 A	04-Oct-18 A	■ Pre-Design (Tank #5 Rehab) - ND Oxygenation Trains																											
Engineering Design																																
ND70880	EPA Start Date for Engineering Design - ND Oxygenation Trains	0	01-Jan-19 A		◆ EPA Start Date for Engineering Design - ND Oxygenation Trains																											
ND20230	Basis of Design Report (BODR) - ND Oxygenation Trains	286	01-Jun-18 A	08-Apr-19 A	■ Basis of Design Report (BODR) - ND Oxygenation Trains																											
ND20240	BODR Review/Re-submittal - ND Oxygenation Trains	30	09-Apr-19 A	09-Jul-19 A	■ BODR Review/Re-submittal - ND Oxygenation Trains																											
ND70400	EPA Compliance Date for Engineering Design - ND Oxygenation Trains	0		14-Oct-19 A	◆ EPA Compliance Date for Engineering Design - ND Oxygenation Trains																											
ND20250	Negotiate Phase II Design - ND Oxygenation Trains	125	02-May-19 A	04-Nov-19 A	■ Negotiate Phase II Design - ND Oxygenation Trains																											
ND20260	Design Criteria Package Initial Submittal / Final Basis of Design Report (BODR) and Specs - ND Oxygenation Trains	145	05-Nov-19 A	22-May-20 A	■ Design Criteria Package Initial Submittal / Final Basis of Design Report (BODR) and Specs - ND Oxygenation Trains																											
ND40470	Issue Final RDBS - ND Oxygenation Trains	145	05-Nov-19 A	31-Jul-20	■ Issue Final RDBS - ND Oxygenation Trains																											
ND20280	DCP Design Review - ND Oxygenation Trains	45	23-May-20 A	14-Aug-20	■ DCP Design Review - ND Oxygenation Trains																											
ND10310	Engineering Design - ND Oxygenation Trains	815	01-Jun-18 A	29-Aug-20	■ Engineering Design - ND Oxygenation Trains																											
ND20290	Final DCP Submittal - ND Oxygenation Trains	15	15-Aug-20	29-Aug-20	■ Final DCP Submittal - ND Oxygenation Trains																											
Permitting																																
ND70890	EPA Start Date for Permitting - ND Oxygenation Trains	0	15-Oct-19 A		◆ EPA Start Date for Permitting - ND Oxygenation Trains																											
ND70410	EPA Compliance Date for Permitting - ND Oxygenation Trains	0		13-Oct-20*	◆ EPA Compliance Date for Permitting - ND Oxygenation Trains																											
ND10350	Permitting - ND Oxygenation Trains	60	30-Aug-20	28-Oct-20	■ Permitting - ND Oxygenation Trains																											
ND71660	Permitting (Remaining Scope of Work) - ND Oxygenation Trains	60	30-Aug-20	28-Oct-20	■ Permitting (Remaining Scope of Work) - ND Oxygenation Trains																											
Procurement																																
ND71630	P.O. for Tank #5 Cleaning - ND Oxygenation Trains	196	19-Jun-17 A	27-Jan-19 A	■ P.O. for Tank #5 Cleaning - ND Oxygenation Trains																											
ND71390	Internal Bid Package Review - ND Oxygenation Trains	31	01-Aug-20	31-Aug-20	■ Internal Bid Package Review - ND Oxygenation Trains																											
ND21200	RDBS sent to ISD - ND Oxygenation Trains	0	01-Sep-20		◆ RDBS sent to ISD - ND Oxygenation Trains																											
ND21210	Submit/Approve SBD Goals and Request to Advertise - ND Oxygenation Trains	30	01-Sep-20	30-Sep-20	■ Submit/Approve SBD Goals and Request to Advertise - ND Oxygenation Trains																											
ND21220	Advertise RDBS - ND Oxygenation Trains	0	01-Oct-20		◆ Advertise RDBS - ND Oxygenation Trains																											
ND70900	EPA Start Date for Procurement - ND Oxygenation Trains	0	14-Oct-20*		◆ EPA Start Date for Procurement - ND Oxygenation Trains																											
ND71900	Request for Qualifications - ND Oxygenation Trains	90	01-Oct-20	29-Dec-20	■ Request for Qualifications - ND Oxygenation Trains																											
ND71910	Qualifications Package Due - ND Oxygenation Trains	0	30-Dec-20		◆ Qualifications Package Due - ND Oxygenation Trains																											
ND71940	Qualification Review Period - ND Oxygenation Trains	90	30-Dec-20	29-Mar-21	■ Qualification Review Period - ND Oxygenation Trains																											
ND71920	Shortlist Published - ND Oxygenation Trains	0	30-Mar-21		◆ Shortlist Published - ND Oxygenation Trains																											

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					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
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																																			
ND21110	Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Disinfection	71	31-Aug-18 A	10-Sep-18 A	◆ Final Approvals (BCC, Mayor, Risk Mgmt.) - ND Disinfection																																			
ND70540	EPA Compliance Date for Procurement - ND Disinfection	0		06-Apr-19 A	◆ EPA Compliance Date for Procurement - ND Disinfection																																			
Construction					◆ EPA Compliance Date for Procurement - ND Disinfection																																			
ND10328	Contractor Notice to Proceed (NTP) - ND Disinfection	0	25-Feb-19 A		◆ Contractor Notice to Proceed (NTP) - ND Disinfection																																			
ND71030	EPA Start Date for Construction - ND Disinfection	0	07-Apr-19 A		◆ EPA Start Date for Construction - ND Disinfection																																			
ND70550	EPA Compliance Date for Construction - ND Disinfection	0		09-Sep-20*	◆ EPA Compliance Date for Construction - ND Disinfection																																			
ND10330	Construction - ND Disinfection	520	25-Feb-19 A	15-Nov-20	◆ Construction - ND Disinfection																																			
ND71850	Commissioning - ND Disinfection	30	17-Oct-20	15-Nov-20	◆ Commissioning - ND Disinfection																																			
ND10380	Substantial Completion (CD Compliance Date 9/09/20) - ND Disinfection	0		15-Nov-20*	◆ Substantial Completion (CD Compliance Date 9/09/20) - ND Disinfection																																			
ND40330	Project Closeout - ND Disinfection	33	16-Nov-20	18-Dec-20*	◆ Project Closeout - ND Disinfection																																			
Project Administration					◆ Project Closeout - ND Disinfection																																			
ND21560	WASD Project Administration - ND Disinfection	1735	11-Jun-15 A	18-Dec-20	◆ WASD Project Administration - ND Disinfection																																			
3.07 Effluent Disposal					◆ WASD Project Administration - ND Disinfection																																			
Pre-Design					◆ WASD Project Administration - ND Disinfection																																			
ND11345	2 - Construction - ND Ocean Outfall Pump Station	96	01-Dec-14 A	28-Dec-21	◆ 2 - Construction - ND Ocean Outfall Pump Station																																			
ND11355	2 - Substantial Completion (CD Compliance Date 12/28/21) - ND Ocean Outfall Pump Station	0		06-Mar-15 A	◆ 2 - Substantial Completion (CD Compliance Date 12/28/21) - ND Ocean Outfall Pump Station																																			
ND20810	1b - Construction - DIW Pump Station Electrical	317	18-Feb-15 A	31-Dec-15 A	◆ 1b - Construction - DIW Pump Station Electrical																																			
ND20820	1b - Substantial Completion (CD Compliance Date 12/28/21) - DIW Pump Station Electrical	0		31-Dec-15 A	◆ 1b - Substantial Completion (CD Compliance Date 12/28/21) - DIW Pump Station Electrical																																			
ND20758	1a - Contractor Notice to Proceed (NTP) - DIW Pump Station Mechanical	0	18-Oct-16 A		◆ 1a - Contractor Notice to Proceed (NTP) - DIW Pump Station Mechanical																																			
ND20760	1a - Construction - DIW Pump Station Mechanical	609	18-Oct-16 A	29-Jun-18 A	◆ 1a - Construction - DIW Pump Station Mechanical																																			
ND10460	Substantial Completion (CD Compliance Date 12/28/21) - ND Effluent Disposal	0		29-Jun-18 A	◆ Substantial Completion (CD Compliance Date 12/28/21) - ND Effluent Disposal																																			
ND10458	1a - Substantial Completion (CD Compliance Date 12/28/21) - DIW Pump Station Mechanical	0		29-Jun-18 A	◆ 1a - Substantial Completion (CD Compliance Date 12/28/21) - DIW Pump Station Mechanical																																			
ND10280	Construction (Summary) - ND Effluent Disposal	1217	18-Feb-15 A	18-Jul-18 A	◆ Construction (Summary) - ND Effluent Disposal																																			
ND40340	Project Closeout - DIW Pump Station Mechanical	90	29-Jun-18 A	30-Nov-19 A	◆ Project Closeout - DIW Pump Station Mechanical																																			
ND71070	EPA Start Date for Construction - ND Effluent Disposal	0	08-May-20 A		◆ EPA Start Date for Construction - ND Effluent Disposal																																			
ND70590	EPA Compliance Date for Construction - ND Effluent Disposal	0		28-Dec-21*	◆ EPA Compliance Date for Construction - ND Effluent Disposal																																			
Project Administration					◆ EPA Compliance Date for Construction - ND Effluent Disposal																																			
ND21570	WASD Project Administration - DIW Pump Station Electrical	1560	09-Jul-14 A	30-Nov-19 A	◆ WASD Project Administration - DIW Pump Station Electrical																																			
3.08 Plant Wide Electrical					◆ WASD Project Administration - DIW Pump Station Electrical																																			
Engineering Design					◆ WASD Project Administration - DIW Pump Station Electrical																																			
ND71080	EPA Start Date for Engineering Design - ND Plant Wide Electrical	0	21-Apr-14 A		◆ EPA Start Date for Engineering Design - ND Plant Wide Electrical																																			
ND70600	EPA Compliance Date for Engineering Design - ND Plant Wide Electrical**	0		20-Jan-17 A	◆ EPA Compliance Date for Engineering Design - ND Plant Wide Electrical**																																			
ND10040	Engineering Design - ND Plant Wide Electrical	1914	01-May-14 A	13-Feb-20 A	◆ Engineering Design - ND Plant Wide Electrical																																			
Permitting					◆ Engineering Design - ND Plant Wide Electrical																																			
ND71090	EPA Start Date for Permitting - ND Plant Wide Electrical	0	21-Jan-17 A		◆ EPA Start Date for Permitting - ND Plant Wide Electrical																																			
ND70610	EPA Compliance Date for Permitting - ND Plant Wide Electrical	0		20-Jan-18 A	◆ EPA Compliance Date for Permitting - ND Plant Wide Electrical																																			
ND10180	Permitting - ND Plant Wide Electrical	1819	01-May-15 A	24-Feb-20 A	◆ Permitting - ND Plant Wide Electrical																																			
Procurement					◆ Permitting - ND Plant Wide Electrical																																			
ND71100	EPA Start Date for Procurement - ND Plant Wide Electrical	0	21-Jan-18 A		◆ EPA Start Date for Procurement - ND Plant Wide Electrical																																			
ND70620	EPA Compliance Date for Procurement - ND Plant Wide Electrical	0		20-Jan-19 A	◆ EPA Compliance Date for Procurement - ND Plant Wide Electrical																																			
ND10250	Procurement - ND Plant Wide Electrical	2142	12-Mar-15 A	17-Aug-20	◆ Procurement - ND Plant Wide Electrical																																			
Construction					◆ Procurement - ND Plant Wide Electrical																																			
ND71110	EPA Start Date for Construction - ND Plant Wide Electrical	0	21-Jan-19 A		◆ EPA Start Date for Construction - ND Plant Wide Electrical																																			
ND10320	Construction - ND Plant Wide Electrical	2339	01-Oct-15 A	13-Feb-21	◆ Construction - ND Plant Wide Electrical																																			
ND10480	Substantial Completion (CD Compliance Date 8/20/22) - ND Plant Wide Electrical	0		13-Feb-21*	◆ Substantial Completion (CD Compliance Date 8/20/22) - ND Plant Wide Electrical																																			
ND70630	EPA Compliance Date for Construction - ND Plant Wide Electrical	0		20-Aug-22*	◆ EPA Compliance Date for Construction - ND Plant Wide Electrical																																			
Project Administration					◆ EPA Compliance Date for Construction - ND Plant Wide Electrical																																			
ND21580	WASD Project Administration - ND Plant Wide Electrical	2857	01-May-14 A	13-Feb-21	◆ WASD Project Administration - ND Plant Wide Electrical																																			
3.08 (1) - NDWWTP General Electrical In-house Construction (Feeders 1-2)					◆ WASD Project Administration - ND Plant Wide Electrical																																			
3.08 (2) - Electrical Feeders 3-6 (Project 3.01)					◆ WASD Project Administration - ND Plant Wide Electrical																																			
3.08 (3) - Electrical Feeders 7-8 (Project 3.04)					◆ WASD Project Administration - ND Plant Wide Electrical																																			
3.08 (4) - Electrical Feeders 9-14					◆ WASD Project Administration - ND Plant Wide Electrical																																			
Engineering Design					◆ WASD Project Administration - ND Plant Wide Electrical																																			
ND70140	Child Project Deleted (Scope considered under CD 3.03 / 3.04)	0	23-Sep-19 A	23-Sep-19 A	◆ Child Project Deleted (Scope considered under CD 3.03 / 3.04)																																			
3.08 (1) - NDWWTP General Electrical In-house Construction (Feeders 1-2)					◆ Child Project Deleted (Scope considered under CD 3.03 / 3.04)																																			
3.08 (2) - Electrical Feeders 3-6 (Project 3.01)					◆ Child Project Deleted (Scope considered under CD 3.03 / 3.04)																																			
3.08 (3) - Electrical Feeders 7-8 (Project 3.04)					◆ Child Project Deleted (Scope considered under CD 3.03 / 3.04)																																			
3.08 (4) - Electrical Feeders 9-14					◆ Child Project Deleted (Scope considered under CD 3.03 / 3.04)																																			
Engineering Design					◆ Child Project Deleted (Scope considered under CD 3.03 / 3.04)																																			
ND40500	Decision Date for Remaining Feeders - Electrical Feeders 9-10, 13-14	0	18-Oct-18 A		◆ Decision Date for Remaining Feeders - Electrical Feeders 9-10, 13-14																																			
ND71210	Pre-Design - Electrical Feeders 9-10, 13-14	60	18-Oct-18 A	19-Sep-19 A	◆ Pre-Design - Electrical Feeders 9-10, 13-14																																			
ND71890	Engineering Design - Electrical Feeders 9-10, 13-14	77	20-Sep-19 A	13-Feb-20 A	◆ Engineering Design - Electrical Feeders 9-10, 13-14																																			
Permitting					◆ Engineering Design - Electrical Feeders 9-10, 13-14																																			
ND71220	Permitting - Electrical Feeders 9-10, 13-14	87	13-Feb-20 A	24-Feb-20 A	◆ Permitting - Electrical Feeders 9-10, 13-14																																			
Procurement					◆ Permitting - Electrical Feeders 9-10, 13-14																																			
ND40550	Procurement - Electrical Feeders 9-10, 13-14	154	17-Mar-20 A	17-Aug-20	◆ Procurement - Electrical Feeders 9-10, 13-14																																			
Construction					◆ Procurement - Electrical Feeders 9-10, 13-14																																			
ND71600	Construction - Electrical Feeders 11&12	100	10-Jan-17 A	19-Apr-17 A	◆ Construction - Electrical Feeders 11&12																																			
ND71610	Construction - Electrical Feeders 9-14	1839	10-Jan-17 A	13-Feb-21	◆ Construction - Electrical Feeders 9-14																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026																											
					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		
4.01 (3) - MDWASD CM Team I/I Repairs																																
Construction																																
CT33301	Construction -MDWASD CM Team I/I Repair (MDWASD)	3736	01-Oct-13 A	27-Sep-27																												
Project Administration																																
CT80760	WASD Project Administration -MDWASD CM Team I/I Repair (MDWASD)	3736	01-Oct-13 A	27-Sep-27																												
4.01 (4) - WWCTLD WASD In-House I/I Repairs																																
Construction																																
CT33302	Construction - WWCTLD WASD In-House I/I Repair (MDWASD)	3742	01-Oct-13 A	27-Sep-27																												
Project Administration																																
CT80770	WASD Project Administration - WWCTLD WASD In-House I/I Repair (MDWASD)	3742	01-Oct-13 A	27-Sep-27																												
4.02 Government Cut FM - Phase 1&2																																
4.03 Government Cut FM - Phase 3																																
4.04 North Dade 72 inch PCCP FM Rehabilitation																																
4.05 South Dade 54 inch PCCP FM Rehabilitation																																
Engineering Design																																
Permitting																																
Procurement																																
Construction																																
4.05 (1) 48/54" FM from SW 127 Ave/SW 280 St. to SW 107 Ave/SW 248 St (Phase 1)																																
Engineering Design																																
Permitting																																
Procurement																																
Construction																																
CT30081	Contractor Notice to Proceed (NTP) - 48/54 Inch FM (Phase 1)	0	19-Oct-16 A	30-Sep-20																												
CT12091	Transfer of 4.05(2) to WASD - 8/54 Inch FM	0	02-Dec-16 A	30-Sep-20																												
CT12031	Construction - 48/54 Inch FM (Phase 1)	405	19-Oct-16 A	14-Sep-18 A																												
CT81120	Commissioning - 48/54 Inch FM (Phase 1)	30	21-May-18 A	14-Sep-18 A																												
CT12041	Substantial Completion Phase 1 (CD Compliance Date 12/23/18) - 48/54 Inch FM (Phase 1)	0	14-Sep-18 A	30-Sep-20																												
CT40400	Project Closeout - 48/54 Inch FM (Phase 1)	90	15-Sep-18 A	30-Sep-20																												
Project Administration																																
CT38420	WASD Project Administration - 48/54 Inch FM (Phase 1)	1301	05-Aug-14 A	30-Sep-20																												
4.06 Replacement of Tamiami Canal Aerial Crossing FM's at NW 37 Ave																																
4.07 Replacement of 18 inch DIP FM in Miami Lakes																																
4.08 Rehabilitation of 54 inch PCCP FM in the City																																
Engineering Design																																
Permitting																																
Procurement																																
Construction																																
4.08 (1) Rehab 2 Miles of 54 Inch PCCP FM (Consent Decree)																																
4.08 (2) Rehab/Replace an Additional 2 Miles of 54" PCCP FM (Non-Consent Decree)																																
4.09 Replace Approximately 30 miles of AC FM Transmission System																																
Engineering Design																																
CT71490	EPA Start Date for Engineering Design - Replace ~30 miles of AC FM Trans System**	0	01-Nov-13 A	09-Oct-14 A																												
CT50840	EPA Compliance Date for Engineering Design - Replace ~30 miles of AC FM Trans System**	0	09-Oct-14 A	09-Oct-14 A																												
CT10110	Engineering Design - Replace ~30 miles of AC FM Trans System	2087	28-Aug-12 A	06-May-19 A																												
Permitting																																
CT71500	EPA Start Date for Permitting - Replace ~30 miles of AC FM Trans System**	0	10-Oct-14 A	31-Dec-18 A																												
CT10190	Permitting - Replace ~30 miles of AC FM Trans System	1835	05-Aug-13 A	04-Sep-18 A																												
CT50850	EPA Compliance Date for Permitting - Replace ~30 miles of AC FM Trans System	0	31-Dec-18 A	31-Dec-18 A																												
Procurement																																
CT71510	EPA Start Date for Procurement - Replace ~30 miles of AC FM Trans System**	0	10-Oct-15 A	08-Oct-19 A																												
CT50860	EPA Compliance Date for Procurement - Replace ~30 miles of AC FM Trans System	0	30-Apr-19 A	08-Oct-19 A																												
CT10270	Procurement - Replace ~30 miles of AC FM Trans System	1750	16-Dec-13 A	08-Oct-19 A																												
Construction																																
CT71520	EPA Start Date for Construction - Replace ~30 miles of AC FM Trans System	0	09-Oct-16 A	17-Oct-20																												
CT10340	Construction - Replace ~30 miles of AC FM Trans System	1935	14-Apr-14 A	17-Aug-20																												
CT10420	Substantial Completion (CD Compliance Date 10/17/20) - Replace ~30 miles of AC FM Trans System	0	17-Aug-20	17-Aug-20																												
CT50880	EPA Compliance Date for Construction - Replace ~30 miles of AC FM Trans System	0	17-Oct-20	17-Oct-20																												
4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66) - Asbestos Concrete Pipe (ACP) Cut and Plug																																
Pre-Design																																
Engineering Design																																
Procurement																																
Construction																																
CT80940	Contractor Notice to Proceed (NTP) - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	0	21-Oct-19 A	03-Sep-20																												
CT80950	Construction - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	270	21-Oct-19 A	05-Jun-20 A																												
CT80960	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	0	05-Jun-20 A	05-Jun-20 A																												
CT40440	Project Closeout - 4.09 (1), (27-28), (44-45), (54-56), (57-59), (64), (66)	90	06-Jun-20 A	03-Sep-20																												
Project Administration																																
CT38530	WASD Project Administration - 4.09 (1), (27), (28), (44-45), (54-56), (57-59), (64), (66)	644	29-Sep-18 A	03-Sep-20																												
4.09 (2) Replacement of 2,403 LF of 12" ACP FM - NE 14th Ave. from PS-0455 to Miami Gardens Dr.																																
4.09 (3-5, 8) RPQ T1811 Replacement of FM from Pump Station #0356 to NW 183rd and 52nd Ave.																																
4.09 (6-7) Replace 325LF of 6" ACP FM from PS #0362 to NW52nd Ct. and 190th St. & 400LF 10" to 189th																																
Pre-Design																																
Engineering Design																																
Permitting																																
Procurement																																

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																							
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Construction					128 26-Jun-17 A 31-Jul-20																							
CT35360	Contractor Notice to Proceed (NTP) - 4.09 (6-7)	0	26-Jun-17 A		Notice to Proceed (NTP) - 4.09 (6-7)																							
CT12281	Construction - 4.09 (6-7)	54	26-Jun-17 A	18-Aug-17 A	Construction - 4.09 (6-7)																							
CT12291	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (6-7)	0		18-Aug-17 A	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (6-7)																							
CT40460	Project Closeout - 4.09 (6-7)	74	19-Aug-17 A	31-Jul-20*	Project Closeout - 4.09 (6-7)																							
Project Administration					950 27-Mar-15 A 31-Jul-20																							
CT38360	WASD Project Administration - 4.09 (6-7)	950	27-Mar-15 A	31-Jul-20	WASD Project Administration - 4.09 (6-7)																							
4.09 (9-13) Replacement of 6, 8 and 12" ACP FM Between PS#0385, PS#0374 and NW 119th St/37th Ave.					1075 28-Aug-12 A 07-Aug-15 A																							
4.09 (14-19) Replacement of 6, 8 & 10" ACP FM Around PS#0376, 0427, 0375, 0377 and 0368					1010 28-Aug-12 A 03-Jun-15 A																							
4.09 (20-21) Replace 467LF 8" ACP FM from PS#0366 to NW42ndPI/199thTer. & 1792LF 10" - 39thCt/199th St					1133 29-Aug-14 A 11-Dec-19 A																							
4.09 (22) Replacement of 2,013 LF of 6" ACP FM from PS#358 to PS#0352					1065 01-Nov-14 A 02-Aug-18 A																							
4.09 (23) Replacement of 1857 LF of 8" ACP FM from PS#1022 to SW 352nd St & 286LF Along 187 Ave.					1265 03-Jun-15 A 14-Mar-19 A																							
4.09 (24) Replacement of 840 LF of 8" ACP FM Along NW 49th Ct. from PS#0353 to NW 177th St.					1065 01-Nov-14 A 30-Sep-17 A																							
4.09 (25-26) Replacement of 1040 LF of 10" ACP FM from NW173rd Dr/52nd Ave. to NW 177th St/52nd Ave.					1066 01-Nov-14 A 06-Sep-17 A																							
4.09 (29-31) Replace 6" & 12" ACP/PVC FMs from 107th Ave and SW 76 St. and 10" FM from PS#0812					2129 01-Apr-14 A 31-Jul-20																							
Pre-Design					181 01-Apr-14 A 29-Sep-14 A																							
Engineering Design					415 30-Sep-14 A 19-Nov-15 A																							
Permitting					397 07-Apr-16 A 09-May-17 A																							
Procurement					229 01-Mar-17 A 22-Sep-17 A																							
Construction					669 05-Mar-18 A 31-Jul-20																							
CT35990	Contractor Notice to Proceed (NTP) - 4.09 (29-31)	0	05-Mar-18 A		Contractor Notice to Proceed (NTP) - 4.09 (29-31)																							
CT12781	Construction - 4.09 (29-31)	320	05-Mar-18 A	12-Sep-19 A	Construction - 4.09 (29-31)																							
CT12791	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (29-31)	0		12-Sep-19 A	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (29-31)																							
CT40540	Project Closeout - 4.09 (29-31)	90	13-Sep-19 A	31-Jul-20*	Project Closeout - 4.09 (29-31)																							
Project Administration					1522 30-Sep-14 A 31-Jul-20																							
CT38280	WASD Project Administration - 4.09 (29-31)	1522	30-Sep-14 A	31-Jul-20	WASD Project Administration - 4.09 (29-31)																							
4.09 (32) Replacement of 684 LF of 12" ACP FM in SW 107th Ave. from 104th St. to Kandale Blvd					1174 26-Nov-14 A 05-Apr-19 A																							
4.09 (33) Replace 1701 LF 4" ACP from PVT PS at SW104th Ave. & 169th St. to MH42 at SW103rd Ave.					954 12-Feb-16 A 31-Aug-18 A																							
4.09 (34-43) Replace ACP DM with 8" & 12" DI FM from SW108 PI/SW177 St to SW95 Ave/SW163 St.					1734 21-Oct-15 A 31-Jul-20																							
Pre-Design					338 21-Oct-15 A 23-Sep-16 A																							
Engineering Design					451 23-Sep-16 A 10-May-18 A																							
Permitting					415 10-Mar-17 A 29-Aug-18 A																							
Procurement					280 21-May-18 A 20-Dec-18 A																							
Construction					508 18-Feb-19 A 31-Jul-20																							
CT36260	Contractor Notice to Proceed (NTP) - 4.09 (34-43)	0	18-Feb-19 A		Contractor Notice to Proceed (NTP) - 4.09 (34-43)																							
CT12981	Construction - 4.09 (34-43)	365	18-Feb-19 A	21-Apr-20 A	Construction - 4.09 (34-43)																							
CT12991	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (34-43)	0		21-Apr-20 A	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (34-43)																							
CT40570	Project Closeout - 4.09 (34-43)	50	22-Apr-20 A	31-Jul-20	Project Closeout - 4.09 (34-43)																							
Project Administration					1005 23-Sep-16 A 31-Jul-20																							
CT38250	WASD Project Administration - 4.09 (34-43)	1005	23-Sep-16 A	31-Jul-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.					1874 03-Jun-15 A 31-Jul-20																							
Pre-Design					478 03-Jun-15 A 23-Sep-16 A																							
Engineering Design					462 23-Sep-16 A 30-Apr-18 A																							
Permitting					189 10-Mar-17 A 27-Aug-18 A																							
Procurement					569 15-Aug-17 A 20-Dec-18 A																							
Construction					508 18-Feb-19 A 31-Jul-20																							
CT36350	Contractor Notice to Proceed (NTP) - 4.09 (46)	0	18-Feb-19 A		Contractor Notice to Proceed (NTP) - 4.09 (46)																							
CT13131	Construction - 4.09 (46)	365	18-Feb-19 A	21-Apr-20 A	Construction - 4.09 (46)																							
CT13191	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (46)	0		21-Apr-20 A	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (46)																							
CT40590	Project Closeout - 4.09 (46)	50	22-Apr-20 A	31-Jul-20*	Project Closeout - 4.09 (46)																							
Project Administration					839 23-Sep-16 A 31-Jul-20																							
CT38240	WASD Project Administration - 4.09 (46)	839	23-Sep-16 A	31-Jul-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.					962 12-Feb-15 A 23-Jan-18 A																							
4.09 (48-53, 63) Replace 8" & 10" ACP FM with 16", 12" & 8" DIP - SW142 Ave/SW288St to SW123Ct/258St					1909 10-Jun-15 A 31-Jul-20																							
Pre-Design					195 10-Jun-15 A 22-Dec-15 A																							
Engineering Design					602 22-Dec-15 A 15-Aug-17 A																							
Permitting					132 16-Aug-17 A 24-May-18 A																							
Procurement					446 15-Aug-17 A 27-Sep-18 A																							
Construction					673 28-Sep-18 A 31-Jul-20																							
CT36530	Contractor Notice to Proceed (NTP) - 4.09 (48-53, 63)	0	28-Sep-18 A		Contractor Notice to Proceed (NTP) - 4.09 (48-53, 63)																							
CT13381	Construction - 4.09 (48-53, 63)	400	28-Sep-18 A	01-May-20 A	Construction - 4.09 (48-53, 63)																							
CT13391	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (48-53, 63)	0		01-May-20 A	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (48-53, 63)																							
CT40610	Project Closeout - 4.09 (48-53, 63)	90	02-May-20 A	31-Jul-20*	Project Closeout - 4.09 (48-53, 63)																							
Project Administration					1325 14-Mar-16 A 31-Jul-20																							
CT38220	WASD Project Administration - 4.09 (48-53, 63)	1325	14-Mar-16 A	31-Jul-20	WASD Project Administration - 4.09 (48-53, 63)																							
4.09 (60-62) Replace 1500LF 8" ACP FM (PS#1013 - PS#1012), 2550LF 10" (SW144th/SW 280th St) 958LF 8"					1237 28-Oct-16 A 31-Jul-20																							
Pre-Design					355 28-Oct-16 A 02-Nov-17 A																							
Engineering Design					223 19-Oct-17 A 21-Jun-18 A																							
Permitting					110 22-May-18 A 04-Sep-18 A																							
Procurement					153 05-Sep-18 A 05-Feb-19 A																							
Construction					371 11-Feb-19 A 31-Jul-20																							
CT36710	Contractor Notice to Proceed (NTP) - 4.09 (60-62)	0	11-Feb-19 A		Contractor Notice to Proceed (NTP) - 4.09 (60-62)																							
CT13631	Construction - 4.09 (60-62)	280	11-Feb-19 A	21-Aug-19 A	Construction - 4.09 (60-62)																							
CT13641	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (60-62)	0		21-Aug-19 A	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (60-62)																							
CT40640	Project Closeout - 4.09 (60-62)	90	22-Aug-19 A	31-Jul-20*	Project Closeout - 4.09 (60-62)																							
Project Administration					718 19-Oct-17 A 31-Jul-20																							
CT38210	WASD Project Administration - 4.09 (60-62)	718	19-Oct-17 A	31-Jul-20	WASD Project Administration - 4.09 (60-62)																							

Activity ID	Activity Name	Original Duration	Start	Finish	2018 2019 2020 2021 2022 2023 2024 2025 2026																											
					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		
4.09 (65) Replacement of 2250 LF of 6" ACP FM from PS#1002 to SW 152nd Ave. and 304th St.		1310	28-Oct-16 A	31-Jul-20	31-Jul-20, 4.09 (65) Replacement of 2250 LF of 6" ACP FM from PS#1002 to SW 152nd Ave. and 304th St.																											
Pre-Design		355	28-Oct-16 A	02-Nov-17 A	-Nov-17 A, Pre-Design																											
Engineering Design		247	19-Oct-17 A	10-Jul-18 A	10-Jul-18 A, Engineering Design																											
Permitting		90	23-Jul-18 A	16-Aug-18 A	16-Aug-18 A, Permitting																											
Procurement		206	21-Aug-18 A	14-Mar-19 A	14-Mar-19 A, Procurement																											
Construction		334	24-Jun-19 A	31-Jul-20	31-Jul-20, Construction																											
CT36800	Contractor Notice to Proceed (NTP) - 4.09 (65)	0	24-Jun-19 A		Contractor Notice to Proceed (NTP) - 4.09 (65)																											
CT13781	Construction - 4.09 (65)	220	24-Jun-19 A	12-Dec-19 A	Construction - 4.09 (65)																											
CT13791	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (65)	0		12-Dec-19 A	Substantial Completion (CD Compliance Date 10/17/20) - 4.09 (65)																											
CT40660	Project Closeout - 4.09 (65)	90	13-Dec-19 A	31-Jul-20*	Project Closeout - 4.09 (65)																											
Project Administration		658	19-Oct-17 A	31-Jul-20	31-Jul-20, Project Administration																											
CT38200	WASD Project Administration - 4.09 (65)	658	19-Oct-17 A	31-Jul-20	WASD Project Administration - 4.09 (65)																											
4.09 (67) Replace 2,700 LF of 8" ACP FM from PS#1132 Along Bikini Blvd to MH5 in Hanger Rd		2271	29-Aug-14 A	15-Nov-20	15-Nov-20, 4.09 (67) Replace 2,700 LF of 8" ACP FM from PS#1132 Along Bikini Blvd to MH5 in Hanger Rd																											
Pre-Design		137	29-Aug-14 A	13-Jan-15 A																												
CT14201	Pre-Design - 4.09 (67)	138	29-Aug-14 A	13-Jan-15 A																												
Engineering Design		436	13-Feb-15 A	24-Apr-16 A																												
CT13851	Engineering Design - 4.09 (67)	437	13-Feb-15 A	24-Apr-16 A																												
Permitting		192	25-Apr-16 A	03-Nov-16 A																												
CT13861	Permitting - 4.09 (67)	193	25-Apr-16 A	03-Nov-16 A	Permitting - 4.09 (67)																											
CT50390	DERM Permit - 4.09 (67)	193	25-Apr-16 A	03-Nov-16 A																												
CT50400	Public Works Permit - 4.09 (67)	35	30-Sep-16 A	03-Nov-16 A																												
Procurement		312	16-Feb-17 A	27-Feb-18 A	27-Feb-18 A, Procurement																											
CT80360	GMOU submittal and approval - 4.09 (67)	21	16-Feb-17 A	08-Mar-17 A	and approval - 4.09 (67)																											
CT80250	Internal Bid Package Review - 4.09 (67)	6	19-May-17 A	24-May-17 A	package Review - 4.09 (67)																											
CT36900	Design Documents Sent to Procurement - 4.09 (67)	0	25-May-17 A		Documents Sent to Procurement - 4.09 (67)																											
CT36910	Submit/Approve SBD Goals and Request to Advertise - 4.09 (67)	27	25-May-17 A	20-Jun-17 A	rove SBD Goals and Request to Advertise - 4.09 (67)																											
CT36920	Advertise Bid Package - 4.09 (67)	0	21-Jun-17 A		d Package - 4.09 (67)																											
CT36930	Bid Solicitation Period - 4.09 (67)	49	21-Jun-17 A	08-Aug-17 A	itation Period - 4.09 (67)																											
CT36940	Bids Due - 4.09 (67)	0	09-Aug-17 A		s - 4.09 (67)																											
CT36950	Bid Review Period - 4.09 (67)	77	09-Aug-17 A	25-Oct-17 A	Review Period - 4.09 (67)																											
CT36960	Award Recommendation - 4.09 (67)	0		25-Oct-17 A	ard Recommendation - 4.09 (67)																											
CT13871	Procurement - 4.09 (67)	183	25-May-17 A	29-Jan-18 A	Procurement - 4.09 (67)																											
CT36970	Final Approvals - 4.09 (67)	30	26-Oct-17 A	27-Feb-18 A	Final Approvals - 4.09 (67)																											
Construction		717	05-Nov-18 A	15-Nov-20	15-Nov-20, Construction																											
CT36980	Contractor Notice to Proceed (NTP) - 4.09 (67)	0	05-Nov-18 A		Contractor Notice to Proceed (NTP) - 4.09 (67)																											
CT13881	Construction - 4.09 (67)	250	05-Nov-18 A	17-Aug-20	Construction - 4.09 (67)																											
CT13891	Substantial Completion (Non-Consent Decree) - 4.09 (67)	0		17-Aug-20*	Substantial Completion (Non-Consent Decree) - 4.09 (67)																											
CT40680	Project Closeout - 4.09 (67)	90	18-Aug-20	15-Nov-20*	Project Closeout - 4.09 (67)																											
Project Administration		1355	13-Feb-15 A	15-Nov-20	15-Nov-20, Project Administration																											
CT38180	WASD Project Administration - 4.09 (67)	1355	13-Feb-15 A	15-Nov-20	WASD Project Administration - 4.09 (67)																											
4.09 (68) Replacement of 3,400 LF of 6" and 8" ACP FM, from PS#0364 to NW 199th St/42nd Ave.		1141	29-Aug-14 A	31-Jul-20	31-Jul-20, 4.09 (68) Replacement of 3,400 LF of 6" and 8" ACP FM, from PS#0364 to NW 199th St/42nd Ave.																											
Pre-Design		35	29-Aug-14 A	03-Oct-14 A																												
Engineering Design		405	06-Oct-14 A	15-Nov-15 A																												
Permitting		142	16-Nov-15 A	06-Apr-16 A																												
Procurement		83	07-Apr-16 A	29-Jun-16 A																												
Construction		396	12-Sep-16 A	31-Jul-20	31-Jul-20, Construction																											
CT37070	Contractor Notice to Proceed (NTP) - 4.09 (68)	0	12-Sep-16 A		NTP) - 4.09 (68)																											
CT13931	Construction - 4.09 (68)	184	12-Sep-16 A	14-Mar-17 A	Construction - 4.09 (68)																											
CT13941	Substantial Completion (Non-Consent Decree) - 4.09 (68)	0		14-Mar-17 A	etion (Non-Consent Decree) - 4.09 (68)																											
CT40690	Project Closeout - 4.09 (68)	212	15-Mar-17 A	31-Jul-20	Project Closeout - 4.09 (68)																											
Project Administration		1103	06-Oct-14 A	31-Jul-20	31-Jul-20, Project Administration																											
CT38170	WASD Project Administration - 4.09 (68)	1103	06-Oct-14 A	31-Jul-20	WASD Project Administration - 4.09 (68)																											
4.09 (69) Replacement of 2,320 LF of 12" ACP FM from PS#0333 South to Miami Lakes Dr.		1233	16-Jun-14 A	28-Aug-18 A	28-Aug-18 A, 4.09 (69) Replacement of 2,320 LF of 12" ACP FM from PS#0333 South to Miami Lakes Dr.																											
4.09 (70) Replace 8000LF of 10" ACP FM at US-1 from SW 184th St. to N. of Caribbean Blvd		550	13-Sep-14 A	16-Mar-16 A	16-Mar-16 A, 4.09 (70) Replace 8000LF of 10" ACP FM at US-1 from SW 184th St. to N. of Caribbean Blvd																											
Pre-Design		407	13-Sep-14 A	25-Oct-15 A																												
Engineering Design		506	27-Oct-14 A	16-Mar-16 A																												
CT14001	Engineering Design (Original Project Scope) - 4.09 (70)	245	27-Oct-14 A	28-Jun-15 A																												
CT80440	Engineering Design - 4.09 (70)	507	27-Oct-14 A	16-Mar-16 A																												
CT33001	Engineering Design (Revised Project Scope) - 4.09 (70)	142	27-Oct-15 A	16-Mar-16 A																												
CT80700	Project Cancelled - 4.09 (70)	0		16-Mar-16 A	a) - 4.09 (70)																											
Project Administration		506	27-Oct-14 A	16-Mar-16 A																												
CT38160	WASD Project Administration - 4.09 (70)	507	27-Oct-14 A	16-Mar-16 A																												
4.09 (71) Replace 8" ACP FM from PS#0445, West to NW 207th St, 4" From PS#0444 to NW207St		1739	01-Nov-14 A	31-Jul-20	31-Jul-20, 4.09 (71) Replace 8" ACP FM from PS#0445, West to NW 207th St, 4" From PS#0444 to NW207St																											
Pre-Design		90	01-Nov-14 A	30-Jan-15 A																												
Engineering Design		442	02-Feb-15 A	19-Apr-16 A																												
Permitting		100	19-Apr-16 A	28-Jul-16 A																												
Procurement		373	09-Feb-17 A	23-Jan-18 A																												
Construction		310	10-Sep-18 A	31-Jul-20	31-Jul-20, Construction																											
CT37250	Contractor Notice to Proceed (NTP) - 4.09 (71)	0	10-Sep-18 A		Contractor Notice to Proceed (NTP) - 4.09 (71)																											
CT14081	Construction - 4.09 (71)	210	10-Sep-18 A	24-Apr-19 A	Construction - 4.09 (71)																											
CT14091	Substantial Completion (Non-Consent Decree) - 4.09 (71)	0		24-Apr-19 A	Substantial Completion (Non-Consent Decree) - 4.09 (71)																											
CT40720	Project Closeout - 4.09 (71)	90	25-Apr-19 A	31-Jul-20*	Project Closeout - 4.09 (71)																											
Project Administration		1332	02-Feb-15 A	31-Jul-20	31-Jul-20, Project Administration																											
CT38140	WASD Project Administration - 4.09 (71)	1332	02-Feb-15 A	31-Jul-20	WASD Project Administration - 4.09 (71)																											
4.09 (72) Replace 9152 LF of 8", 12" and 16" ACP FM from PS#0891 to SW 108th St.-127th Ave.-88th St		0	18-Jul-16 A	18-Jul-16 A	18-Jul-16 A, 4.09 (72) Replace 9152 LF of 8", 12" and 16" ACP FM from PS#0891 to SW 108th St.-127th Ave.-88th St																											
Engineering Design		0	18-Jul-16 A	18-Jul-16 A																												

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					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				
CT14161	Project Transferred to CIP - 4.09 (72)	0		18-Jul-16 A	Project Transferred to CIP - 4.09 (72)																																			
4.09 (73) Replace 14,350 LF of 10", 8" and 6" ACP FM from PS#0728, PS#0709, PS#0738, PS#0735, PS#0730		1998	29-Aug-14 A	30-Aug-20	30-Aug-20, 4.09 (73) Replace 14,350 LF of 10", 8" and 6" ACP FM from PS#0728, PS#0709, PS#0738, PS#0735, PS#0730																																			
Pre-Design		216	29-Aug-14 A	02-Apr-15 A																																				
Engineering Design		223	03-Apr-15 A	12-Nov-15 A																																				
Permitting		245	18-Dec-15 A	19-Aug-16 A																																				
Procurement		503	13-Jan-17 A	02-Mar-18 A																																				
Construction		566	23-Jul-18 A	30-Aug-20	30-Aug-20, Construction																																			
CT37340	Contractor Notice to Proceed (NTP) - 4.09 (73)	0	23-Jul-18 A		Contractor Notice to Proceed (NTP) - 4.09 (73)																																			
CT14151	Construction - 4.09 (73)	370	23-Jul-18 A	10-Oct-19 A	Construction - 4.09 (73)																																			
CT14181	Substantial Completion (Non-Consent Decree) - 4.09 (73)	0		10-Oct-19 A	Substantial Completion (Non-Consent Decree) - 4.09 (73)																																			
CT40740	Project Closeout - 4.09 (73)	90	11-Oct-19 A	30-Aug-20*	Project Closeout - 4.09 (73)																																			
Project Administration		1494	03-Apr-15 A	30-Aug-20	30-Aug-20, Project Administration																																			
CT38130	WASD Project Administration - 4.09 (73)	1494	03-Apr-15 A	30-Aug-20	WASD Project Administration - 4.09 (73)																																			
4.10 Opa-Locka Airport 48" PCCP Force Main Replacement		3545	29-Jul-14 A	11-Apr-24	11-Apr-24, 4.10 Opa-Locka Airport 48" PCCP Force Main Replacement																																			
Engineering Design		578	06-Oct-14 A	05-May-16 A	05-May-16 A, Engineering Design																																			
Permitting		725	29-Jul-14 A	23-Jul-16 A	23-Jul-16 A, Permitting																																			
Procurement		239	04-May-16 A	29-Dec-16 A	29-Dec-16 A, Procurement																																			
Construction		596	12-Oct-16 A	11-May-18 A	11-May-18 A, Construction																																			
4.10 (1) Rehab Existing 48" FM Along North Side of Biscayne Canal from NW 37th Ave. to NW 32nd Ave.		907	17-Aug-15 A	29-Apr-19 A	29-Apr-19 A, 4.10 (1) Rehab Existing 48" FM Along North Side of Biscayne Canal from NW 37th Ave. to NW 32nd Ave.																																			
4.10 (2) Opa-Locka Airport 48" PCCP Force Main Replacement (Sections 1 and 2)		1370	17-Dec-14 A	31-Jul-20	31-Jul-20, 4.10 (2) Opa-Locka Airport 48" PCCP Force Main Replacement (Sections 1 and 2)																																			
Pre-Design		54	01-May-15 A	24-Jun-15 A																																				
Engineering Design		505	17-Dec-14 A	05-May-16 A																																				
Permitting		320	30-Jul-15 A	14-Jun-16 A																																				
Procurement		145	04-May-16 A	26-Sep-16 A																																				
Construction		705	12-Oct-16 A	31-Jul-20	31-Jul-20, Construction																																			
CT33181	Contractor Notice to Proceed (NTP) - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	0	12-Oct-16 A		Contractor Notice to Proceed (NTP) - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																																			
CT37560	Construction - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	420	12-Oct-16 A	11-May-18 A	Construction - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																																			
CT37570	Substantial Completion (CD Compliance Date 10/25/18) - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	0		11-May-18 A	Substantial Completion (CD Compliance Date 10/25/18) - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																																			
CT40760	Project Closeout - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	90	12-May-18 A	31-Jul-20*	Project Closeout - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																																			
Project Administration		1175	17-Dec-14 A	31-Jul-20	31-Jul-20, Project Administration																																			
CT35371	WASD Project Administration - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)	1175	17-Dec-14 A	31-Jul-20	WASD Project Administration - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)																																			
4.10 (3) Replace 16" FM Along NW 159th St. from NW 57th St. to NW 54th St.		805	07-Mar-16 A	04-Sep-18 A	04-Sep-18 A, 4.10 (3) Replace 16" FM Along NW 159th St. from NW 57th St. to NW 54th St.																																			
4.10 (4) Opa-Locka Airport Concessions Project		2739	12-Oct-16 A	11-Apr-24	11-Apr-24, 4.10 (4) Opa-Locka Airport Concessions Project																																			
Pre-Design		447	12-Oct-16 A	17-Jul-18 A	17-Jul-18 A, Pre-Design																																			
CT80000	Pre-Design - 4.10 (4)	447	12-Oct-16 A	17-Jul-18 A	Pre-Design - 4.10 (4)																																			
Engineering Design		855	17-Jul-18 A	14-Nov-20	14-Nov-20, Engineering Design																																			
CT81170	30% Design Submittal - 4.10 (4)	150	17-Jul-18 A	27-Jun-19 A	30% Design Submittal - 4.10 (4)																																			
CT81180	30% Design Review - 4.10 (4)	30	28-Jun-19 A	06-Nov-19 A	30% Design Review - 4.10 (4)																																			
CT81190	75% Design Submittal - 4.10 (4)	167	07-Nov-19 A	17-Apr-20 A	75% Design Submittal - 4.10 (4)																																			
CT81200	75% Design Review - 4.10 (4)	7	18-Apr-20 A	11-May-20 A	75% Design Review - 4.10 (4)																																			
CT81210	100% Design Submittal - 4.10 (4)	173	12-May-20 A	31-Oct-20	100% Design Submittal - 4.10 (4)																																			
CT80010	Engineering Design - 4.10 (4)	150	17-Jul-18 A	14-Nov-20	Engineering Design - 4.10 (4)																																			
CT81220	100% Design Review/Permit Ready Submittal - 4.10 (4)	14	01-Nov-20	14-Nov-20	100% Design Review/Permit Ready Submittal - 4.10 (4)																																			
Permitting		334	15-Nov-20	14-Oct-21	14-Oct-21, Permitting																																			
CT80020	Permitting - 4.10 (4)	334	15-Nov-20	14-Oct-21	Permitting - 4.10 (4)																																			
Procurement		270	15-Oct-21	11-Jul-22	11-Jul-22, Procurement																																			
CT80030	Procurement - 4.10 (4)	270	15-Oct-21	11-Jul-22	Procurement - 4.10 (4)																																			
Construction		640	12-Jul-22	11-Apr-24	11-Apr-24, Construction																																			
CT81060	Notice to Proceed (NTP) - 4.10 (4)	0	12-Jul-22		Notice to Proceed (NTP) - 4.10 (4)																																			
CT80040	Construction - 4.10 (4)	550	12-Jul-22	12-Jan-24	Construction - 4.10 (4)																																			
CT81130	Commissioning - 4.10 (4)	30	14-Dec-23	12-Jan-24	Commissioning - 4.10 (4)																																			
CT80050	Substantial Completion (Not Consent Decree) - 4.10 (4)	0		12-Jan-24	Substantial Completion (Not Consent Decree) - 4.10 (4)																																			
CT80060	Project Closeout - 4.10 (4)	90	13-Jan-24	11-Apr-24*	Project Closeout - 4.10 (4)																																			
Project Administration		1674	17-Jul-18 A	11-Apr-24	11-Apr-24, Project Administration																																			
CT80810	WASD Project Administration - 4.10 (4)	1674	17-Jul-18 A	11-Apr-24	WASD Project Administration - 4.10 (4)																																			
5. Sewer Pump Station System		4280	12-Dec-10 A	30-Aug-22	30-Aug-22, 5. Sewer Pump Station System																																			
5.01 Upgrade of PS#0418		2356	01-Nov-13 A	30-Aug-20	30-Aug-20, 5.01 Upgrade of PS#0418																																			
Engineering Design		217	01-Nov-13 A	06-Jun-14 A																																				
Permitting		395	14-Jul-14 A	13-Aug-15 A																																				
Procurement		364	07-Jun-15 A	05-Jun-16 A																																				
Construction		1417	28-May-16 A	30-Aug-20	30-Aug-20, Construction																																			
PS32830	Contractor Notice to Proceed (NTP) - Upgrade PS#0418	0	28-May-16 A		Upgrade PS#0418																																			
PS51570	EPA Start Date for Construction - Upgrade PS#0418	0	06-Jun-16 A		Upgrade PS#0418																																			
PS11111	City of Hialeah Completes Reroute of Gravity Mains from PS#418 to PS#200	0		17-Nov-16 A	Reroute of Gravity Mains from PS#418 to PS#200																																			
PS50850	EPA Compliance Date for Construction - Upgrade PS#0418	0		22-Oct-19 A	EPA Compliance Date for Construction - Upgrade PS#0418																																			
PS10550	Construction - Upgrade PS#0418	724	28-May-16 A	08-Nov-19 A	Construction - Upgrade PS#0418																																			
PS72990	Commissioning - Upgrade PS#0418	30	17-Jun-19 A	08-Nov-19 A	Commissioning - Upgrade PS#0418																																			
PS10830	Construction Completion (CD Compliance Date 10/22/19) - Upgrade PS#0418	0		08-Nov-19 A	Construction Completion (CD Compliance Date 10/22/19) - Upgrade PS#0418																																			
PS40770	Project Closeout - Upgrade PS#0418	115	09-Nov-19 A	30-Aug-20*	Project Closeout - Upgrade PS#0418																																			
Project Administration		1703	01-Nov-13 A	30-Aug-20	30-Aug-20, Project Administration																																			
PS35360	WASD Project Administration - Upgrade PS#0418	1703	01-Nov-13 A	30-Aug-20	WASD Project Administration - Upgrade PS#0418																																			
5.02 Upgrade of PS#0691		2066	04-Aug-14 A	08-Nov-19 A	08-Nov-19 A, 5.02 Upgrade of PS#0691																																			
Pre-Design		112	04-Aug-14 A	24-Nov-14 A																																				
PS20080	Pre-Design - Upgrade PS#0692	113	04-Aug-14 A	24-Nov-14 A	24-Nov-14 A, Pre-Design - Upgrade PS#0692																																			
Engineering Design		713	26-Nov-14 A	08-Nov-16 A	08-Nov-16 A, Design																																			
5.03 Upgrade of PS#0692		2337	04-Aug-14 A	26-Dec-20	26-Dec-20, 5.03 Upgrade of PS#0692																																			

Activity ID	Activity Name	Original Duration	Start	Finish	2018-2026																							
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PS51620	EPA Start Date for Engineering Design - Upgrade PS#0692	0	07-Dec-14 A																									
PS50900	EPA Compliance Date for Engineering Design - Upgrade PS#0692**	0		15-May-15 A																								
PS20090	Basis of Design Report (BODR) - Upgrade PS#0692	248	26-Nov-14 A	31-Jul-15 A																								
PS20120	BODR Review Period - Upgrade PS#0692	68	03-Aug-15 A	09-Oct-15 A																								
PS31370	Negotiate Scope & Fee of Remaining Design - Upgrade PS#0692	277	21-Aug-15 A	23-May-16 A																								
PS32110	60% Design Submittal - Upgrade PS#0692	99	24-May-16 A	30-Aug-16 A																								
PS32120	60% Design Review - Upgrade PS#0692	7	31-Aug-16 A	06-Sep-16 A																								
PS10140	Engineering Design - Upgrade PS#0692	714	26-Nov-14 A	08-Nov-16 A																								
PS20150	100% Design Submittal - Upgrade PS#0692	63	07-Sep-16 A	08-Nov-16 A																								
Permitting																												
PS51630	EPA Start Date for Permitting - Upgrade PS#0692**	0	10-Aug-14 A																									
PS50700	RER/DERM Permit - Upgrade PS#0692	191	08-Nov-16 A	17-May-17 A																								
PS50910	EPA Compliance Date for Permitting - Upgrade PS#0692**	0		30-Aug-17 A																								
PS10300	Permitting - Upgrade PS#0692	356	08-Nov-16 A	02-Oct-17 A																								
PS72000	Building Dept Permit - Upgrade PS#0692	166	17-May-17 A	02-Oct-17 A																								
Procurement																												
PS71930	GMOU Submittal and Approval - Upgrade PS#0692	20	14-Feb-17 A	05-Mar-17 A																								
PS41080	Pre-Purchase Bid Package (Pumps & Valves) - PS#0692	9	23-Mar-17 A	31-Mar-17 A																								
PS41090	Advertise Pre-Purchase (Pumps & Valves) - PS#0692	0	03-Apr-17 A																									
PS41100	Vendor Bid & Award (Pumps & Valves) - PS#0692	18	03-Apr-17 A	20-Apr-17 A																								
PS71850	Internal Bid Package Review - Upgrade PS#0692	3	01-Aug-17 A	03-Aug-17 A																								
PS32940	Design Documents Sent to Procurement - Upgrade PS#0692	0	04-Aug-17 A																									
PS51640	EPA Start Date for Procurement - Upgrade PS#0692	0	01-Sep-17 A																									
PS50920	EPA Compliance Date for Procurement - Upgrade PS#0692	0		05-Oct-17 A																								
PS32950	Submit/Approve SBD Goals and Request to Advertise - Upgrade PS#0692	70	04-Aug-17 A	14-Feb-18 A																								
PS32960	Advertise Bid Package - Upgrade PS#0692	0	15-Feb-18 A																									
PS32970	Bid Solicitation Period - Upgrade PS#0692	45	15-Feb-18 A	01-Apr-18 A																								
PS32980	Bids Due - Upgrade PS#0692	0	02-Apr-18 A																									
PS32990	Bid Review Period - Upgrade PS#0692	30	02-Apr-18 A	29-May-18 A																								
PS72900	Bids Rejected - Upgrade PS#0692	0		29-May-18 A																								
PS72920	Revise Bid Packages - Upgrade PS#0692	30	30-May-18 A	12-Aug-18 A																								
PS72970	Design Documents Sent to Procurement - Upgrade PS#0692	0	13-Aug-18 A																									
PS72930	Re-Advertise Bid Package (Bid #2) - Upgrade PS#0692	0	16-Aug-18 A																									
PS72940	Bid Solicitation Period for Revised Package (Bid #2) - Upgrade PS#0692	30	16-Aug-18 A	03-Oct-18 A																								
PS72950	Bids Due for Revised Package (Bid #2) - Upgrade PS#0692	0	04-Oct-18 A																									
PS72980	Submit/Approve SBD Goals and Request to Advertise - Upgrade PS#0692	60	17-Jul-18 A	30-Oct-18 A																								
PS72960	Bid Review Period for Revised Package (Bid #2) - Upgrade PS#0692	31	04-Oct-18 A	13-Nov-18 A																								
PS33000	Award Recommendation - Upgrade PS#0692	0		13-Nov-18 A																								
PS10470	Procurement - Upgrade PS#0692	175	04-Aug-17 A	23-Jan-19 A																								
PS33010	Final Approvals (BCC, Mayor, Risk Mgmt.) - Upgrade PS#0692	60	14-Nov-18 A	23-Jan-19 A																								
PS41070	Pre-Purchase Pumps & Valves - PS#0692	360	23-Mar-17 A	31-May-19 A																								
PS41110	Fabricate & Deliver Pumps & Valves - PS#0692	331	21-Apr-17 A	31-May-19 A																								
Construction																												
PS51650	EPA Start Date for Construction - Upgrade PS#0692	0	06-Oct-17 A																									
PS33020	Contractor Notice to Proceed (NTP) - Upgrade PS#0692	0	28-Jan-19 A																									
PS50930	EPA Compliance Date for Construction - Upgrade PS#0692	0		17-Jun-20 A																								
PS10670	Construction - Upgrade PS#0692	365	28-Jan-19 A	27-Oct-20																								
PS723000	Commissioning - Upgrade PS#0692	30	28-Sep-20	27-Oct-20																								
PS10860	Substantial Completion (CD Compliance Date 6/17/20) - Upgrade PS#0692	0		27-Oct-20*																								
PS40790	Project Closeout - Upgrade PS#0692	60	28-Oct-20	26-Dec-20*																								
Project Administration																												
PS35340	WASD Project Administration - Upgrade PS#0692	1647	26-Nov-14 A	26-Dec-20																								
5.04 Replacement of Switchgear PS#0414 and Generator Replacement																												
Engineering Design																												
Permitting																												
Procurement																												
Construction																												
Project Administration																												
PS35330	WASD Project Administration - PS#0414	1316	09-Feb-15 A	30-Sep-20																								
5.04 (1) Replacement of Switchgear PS#0414																												
Pre-Design																												
Engineering Design																												
Permitting																												
Procurement																												
Construction																												
PS32370	Contractor Notice to Proceed (NTP) - PS#0414	0	21-Sep-17 A																									
PS723790	FPL Connection - PS#0414	0		12-Apr-19 A																								
PS723150	Construction - PS#0414	301	21-Sep-17 A	11-Jun-19 A																								
PS723010	Commissioning - PS#0414	56	15-Apr-19 A	11-Jun-19 A																								
PS10770	Substantial Completion (CD Compliance Date 6/15/19) - PS#0414	0		11-Jun-19 A																								
PS40800	Project Closeout - PS#0414	60	12-Jun-19 A	30-Sep-20*																								
5.04 (2) Generator Replacement																												
Pre-Design																												
PS723160	Pre-Design - PS#0414 Generator Replacement	90	15-Aug-18 A	30-May-19 A																								
Engineering Design																												

Activity ID	Activity Name	Original Duration	Start	Finish	2018				2019				2020				2021				2022				2023				2024				2025				2026			
					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
5.18 (2) Pump Station 0491 Compliance Project		772	07-Jul-17 A	15-Nov-19 A	15-Nov-19 A, 5.18 (2) Pump Station 0491 Compliance Project																																			
5.18 (3) Pump Station 0710 Compliance Project		1104	22-Nov-16 A	30-Sep-20	30-Sep-20, 5.18 (3) Pump Station 0710 Compliance Project																																			
Pre-Design		91	22-Nov-16 A	20-Feb-17 A	Design																																			
Engineering Design		155	21-Mar-17 A	23-Aug-17 A	17 A, Engineering Design																																			
Permitting		194	24-Aug-17 A	15-Mar-18 A	15-Mar-18 A, Permitting																																			
Procurement		138	29-Jan-18 A	23-Jul-18 A	23-Jul-18 A, Procurement																																			
Construction		457	20-Aug-18 A	30-Sep-20	20-Aug-18 A, Construction																																			
PS34460	Contractor Notice to Proceed (NTP) - PS#0710 Compliance Project	0	20-Aug-18 A		Contractor Notice to Proceed (NTP) - PS#0710 Compliance Project																																			
PS12982	Construction - PS#0710 Compliance Project	300	20-Aug-18 A	14-Aug-19 A	Construction - PS#0710 Compliance Project																																			
PS723090	Commissioning - PS#0710 Compliance Project	60	24-Jun-19 A	14-Aug-19 A	Commissioning - PS#0710 Compliance Project																																			
PS12992	Substantial Completion (CD Compliance Date 12/13/19) - PS#0710 Compliance Project	0		14-Aug-19 A	Substantial Completion (CD Compliance Date 12/13/19) - PS#0710 Compliance Project																																			
PS41000	Project Closeout - PS#0710 Compliance Project	61	15-Aug-19 A	30-Sep-20*	Project Closeout - PS#0710 Compliance Project																																			
Project Administration		718	21-Mar-17 A	30-Sep-20	Project Administration																																			
PS35120	WASD Project Administration - PS#0710 Compliance Project	718	21-Mar-17 A	30-Sep-20	WASD Project Administration - PS#0710 Compliance Project																																			
5.18 (4) Pump Station 0827 Compliance Project		1155	06-Dec-16 A	31-Jul-20	31-Jul-20, 5.18 (4) Pump Station 0827 Compliance Project																																			
Pre-Design		94	06-Dec-16 A	09-Mar-17 A	Design																																			
Engineering Design		122	09-Mar-17 A	09-Jul-17 A	A, Engineering Design																																			
Permitting		270	10-Jul-17 A	13-Jun-18 A	13-Jun-18 A, Permitting																																			
Procurement		125	28-Feb-18 A	29-Jun-18 A	29-Jun-18 A, Procurement																																			
Construction		522	06-Aug-18 A	31-Jul-20	06-Aug-18 A, Construction																																			
PS34640	Contractor Notice to Proceed (NTP) - PS#0827 Compliance Project	0	06-Aug-18 A		Contractor Notice to Proceed (NTP) - PS#0827 Compliance Project																																			
PS13082	Construction - PS#0827 Compliance Project	300	06-Aug-18 A	18-Nov-19 A	Construction - PS#0827 Compliance Project																																			
PS723100	Commissioning - PS#0827 Compliance Project	33	14-Oct-19 A	18-Nov-19 A	Commissioning - PS#0827 Compliance Project																																			
PS13092	Substantial Completion (CD Compliance Date 12/13/19) - PS#0827 Compliance Project	0		18-Nov-19 A	Substantial Completion (CD Compliance Date 12/13/19) - PS#0827 Compliance Project																																			
PS41020	Project Closeout - PS#0827 Compliance Project	50	19-Nov-19 A	31-Jul-20*	Project Closeout - PS#0827 Compliance Project																																			
Project Administration		730	09-Mar-17 A	31-Jul-20	Project Administration																																			
PS35110	WASD Project Administration - PS#0827 Compliance Project	730	09-Mar-17 A	31-Jul-20	WASD Project Administration - PS#0827 Compliance Project																																			
5.18 (5) Pump Station 0852 Compliance Project		1033	06-Dec-16 A	30-Sep-20	30-Sep-20, 5.18 (5) Pump Station 0852 Compliance Project																																			
Pre-Design		112	06-Dec-16 A	27-Mar-17 A	Design																																			
Engineering Design		134	28-Mar-17 A	09-Aug-17 A	17 A, Engineering Design																																			
Permitting		261	10-Aug-17 A	30-Mar-18 A	30-Mar-18 A, Permitting																																			
Procurement		123	02-Mar-18 A	02-Aug-18 A	02-Aug-18 A, Procurement																																			
Construction		370	04-Sep-18 A	30-Sep-20	04-Sep-18 A, Construction																																			
PS34820	Contractor Notice to Proceed (NTP) - PS#0852 Compliance Project	0	04-Sep-18 A		Contractor Notice to Proceed (NTP) - PS#0852 Compliance Project																																			
PS13182	Construction - PS#0852 Compliance Project	250	04-Sep-18 A	26-Jul-19 A	Construction - PS#0852 Compliance Project																																			
PS723110	Commissioning - PS#0852 Compliance Project	60	30-Apr-19 A	26-Jul-19 A	Commissioning - PS#0852 Compliance Project																																			
PS13192	Substantial Completion (CD Compliance Date 12/13/19) - PS#0852 Compliance Project	0		26-Jul-19 A	Substantial Completion (CD Compliance Date 12/13/19) - PS#0852 Compliance Project																																			
PS41040	Project Closeout - PS#0852 Compliance Project	50	26-Jul-19 A	30-Sep-20*	Project Closeout - PS#0852 Compliance Project																																			
Project Administration		712	28-Mar-17 A	30-Sep-20	Project Administration																																			
PS35100	WASD Project Administration - PS#0852 Compliance Project	712	28-Mar-17 A	30-Sep-20	WASD Project Administration - PS#0852 Compliance Project																																			
5.18 (6) Pump Station 1236 Compliance Project		0	01-May-17 A	01-May-17 A	01-May-17 A, 5.18 (6) Pump Station 1236 Compliance Project																																			
5.19 SCADA RTU Upgrades		899	01-Oct-13 A	18-Mar-16 A	18-Mar-16 A, 5.19 SCADA RTU Upgrades																																			
6. Supplemental Environmental Project		1897	20-Oct-14 A	31-Jul-20	31-Jul-20, 6. Supplemental Environmental Project																																			
Engineering Design		671	08-Jun-15 A	08-Apr-17 A	Engineering Design																																			
Construction		1447	14-Dec-15 A	18-Nov-19 A	14-Dec-15 A, Construction																																			
6.0 Supplemental Environmental Project (SEP)		1897	20-Oct-14 A	31-Jul-20	31-Jul-20, 6.0 Supplemental Environmental Project (SEP)																																			
Pre-Design		230	20-Oct-14 A	07-Jun-15 A	Design																																			
Engineering Design		534	08-Jun-15 A	23-Nov-16 A	08-Jun-15 A, Engineering Design																																			
Permitting		301	23-Nov-16 A	19-Sep-17 A	23-Nov-16 A, Permitting																																			
Procurement		606	01-Nov-16 A	29-Nov-17 A	01-Nov-16 A, Procurement																																			
Construction		729	18-Dec-17 A	31-Jul-20	18-Dec-17 A, Construction																																			
PM35090	Contractor Notice to Proceed (NTP) - SEP	0	18-Dec-17 A		Contractor Notice to Proceed (NTP) - SEP																																			
PM50560	Construction - SEP Water Supply Line (Non-Consent Decree)	365	18-Dec-17 A	17-Dec-18 A	Construction - SEP Water Supply Line (Non-Consent Decree)																																			
PM10010	Construction - SEP	365	18-Dec-17 A	26-Dec-18 A	Construction - SEP																																			
PM50570	Commissioning - SEP	60	27-Oct-18 A	26-Dec-18 A	Commissioning - SEP																																			
PM50410	Substantial Completion (CD Compliance Date 11/18/19) - SEP	0		26-Dec-18 A	Substantial Completion (CD Compliance Date 11/18/19) - SEP																																			
PM10160	SEP Completion Report to EPA	30	19-Nov-19 A	18-Dec-19 A	SEP Completion Report to EPA																																			
PM50110	Project Closeout - SEP	90	27-Dec-18 A	31-Jul-20*	Project Closeout - SEP																																			
Project Administration		1403	08-Jun-15 A	31-Jul-20	Project Administration																																			
PM50100	WASD Project Administration - SEP	1403	08-Jun-15 A	31-Jul-20	WASD Project Administration - SEP																																			
6.1 SEP (Early Phase Work)		848	09-Jun-15 A	01-May-17 A	09-Jun-15 A, 6.1 SEP (Early Phase Work)																																			

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 - March 2020)
(On an accrual basis)

<i>In Thousands</i>	Audited	UnAudited
	Oct-Sep	Oct-Mar
Wastewater System	FY 18-19 Actual	FY 19-20 Actual
Revenues:		
Wastewater System Operating Revenues	\$406,399	\$200,599
Interest Income	\$8,931	\$9,460
Other Adjustments (net change accruals&payables)	\$16,010	\$0
Transferred From WASD Water Operations (*Occurs at Year-end flow of funds)	\$58,444	\$0
Total Revenues:	\$489,784	\$210,059
Expenditures:		
Wastewater System Operating & Maintenance Expenditures	(\$252,656)	(\$124,498)
Debt Service - Existing (net of Swap receipts)	(\$151,738)	(\$112,305)
Operating Revenues Transferred To Wastewater Renewal & Replacement Capital Fund	(\$54,000)	\$0
Operating Revenues Transferred To Wastewater Special Construction Fund	(\$30,000)	\$0
Operating Revenues Transferred To Bond Required Reserve	(\$1,390)	\$0
Transferred To WASD Water Operations	\$0	\$0
Total Expenditures Operating and Non-Operating	(\$489,784)	(\$236,803)
Net Overage/(Deficit) in Wastewater System Revenues (pending transfer from water)	\$0	(\$26,744)
% Increase for Net Deficit	0.00%	0.00%

*** YTD ACTUAL Note: Transfers to the R&R capital fund and to/from water and sewer occur at year-end flow of funds entry that record through the audit process.**

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

Reserve Required By Bond Ordinance Water and Wastewater	\$78,099	\$80,060
Water and Wastewater Rate Stabilization Fund Balance	\$30,534	\$30,534
Water and Sewer General Reserve Fund Beginning Balance	\$65,676	\$76,780
Water and Wastewater Systems Transfer to/(from) General Reserve	\$11,104	\$0
Water and Sewer General Reserve Fund Ending Balance	\$76,780	\$76,780

Miami-Dade Water and Sewer Department
Statement of Revenues, Expenses and Changes in Net Position
WASTEWATER - Wastewater Funds
For 6 Months Ending March 31, 2020

Report Id: WGLZ11B
Run on: 04/14/20 04:11 PM
Source: GL

	Unaudited FY 2020			FY 2019	
	Actual	Budget	Variance Fav/(Unfav)	Actual	Variance Fav/(Unfav)
OPERATING REVENUES					
Retail Water	-	-	-	-	-
Retail Wastewater	154,815,616.66	155,852,271.00	(1,036,654.34)	151,659,754.30	3,155,862.36
Wholesale Water	-	-	-	-	-
Wholesale Wastewater	38,077,252.13	35,241,203.00	2,836,049.13	33,698,285.98	4,378,966.15
Other Revenues	7,706,567.21	7,764,357.00	(57,789.79)	7,014,933.61	691,633.60
TOTAL OPERATING REVENUES	200,599,436.00	198,857,831.00	1,741,605.00	192,372,973.89	8,226,462.11
OPERATING & MAINTENANCE EXPENSES					
Water Source of Supply	-	-	-	-	-
Water Pumping	-	-	-	-	-
Water Treatment and Purification	-	-	-	-	-
Water Transmission and Distribution	-	-	-	-	-
Sewer Collection	15,337,611.09	17,835,309.36	2,497,698.27	15,605,093.85	267,482.76
Sewer Pumping	24,502,442.44	23,800,298.19	(702,144.25)	22,952,874.43	(1,549,568.01)
Sewer Treatment and Disposal	50,084,686.55	56,030,970.02	5,946,283.47	48,241,685.40	(1,843,001.15)
Customer Accounting	1,767,605.34	1,944,342.99	176,737.65	1,823,823.17	56,217.83
Customer Service	5,941,501.04	5,833,581.57	(107,919.47)	5,756,533.17	(184,967.87)
General and Administration	26,864,492.01	33,085,647.67	6,221,155.66	35,865,490.88	9,000,998.87
Fringes and Overhead	-	-	-	-	-
Stores Overhead	-	-	-	-	-
Vehicle Overhead	-	-	-	-	-
TOTAL OPERATING & MAINTENANCE EXPENSES	124,498,338.47	138,530,149.80	14,031,811.33	130,245,500.89	5,747,162.42
OPERATING INCOME BEFORE DEPRECIATION	76,101,097.53	60,327,681.20	15,773,416.33	62,127,473.00	13,973,624.53
Depreciation	66,717,546.47	-	(66,717,546.47)	63,404,835.28	(3,312,711.19)
OPERATING INCOME (LOSS)	9,383,551.06	60,327,681.20	(50,944,130.14)	(1,277,362.28)	10,660,913.34

**Miami-Dade Water and Sewer Department
Statement of Revenues, Expenses and Changes in Net Position
WASTEWATER - Wastewater Funds
For 6 Months Ending March 31, 2020**

Report Id: WGLZ11B
Run on: 04/14/20 04:11 PM
Source: GL

	Unaudited FY 2020			FY 2019	
	Actual	Budget	Variance Fav/(Unfav)	Actual	Variance Fav/(Unfav)
NON-OPERATING REVENUE (EXPENSE)					
Customer Connection Fees	12,260,641.82	-	12,260,641.82	14,818,156.33	(2,557,514.51)
Other Revenue	(11,822,213.98)	-	(11,822,213.98)	2,049,529.35	(13,871,743.33)
Other Expense	-	-	-	-	-
Change in Fair Value	(735,605.50)	-	(735,605.50)	4,970,503.50	(5,706,109.00)
Interest Income	5,331,894.26	8,405,925.82	(3,074,031.56)	4,227,610.79	1,104,283.47
Interest Expense	(43,838,947.03)	-	(43,838,947.03)	(39,853,402.27)	(3,985,544.76)
Capitalized Interest	(282,627.93)	-	(282,627.93)	(472,428.63)	189,800.70
Amortization of Debt Issue	(7,887,567.43)	-	(7,887,567.43)	(4,567,663.53)	(3,319,903.90)
Operating Disaster Revenue	(18,556.13)	-	(18,556.13)	-	(18,556.13)
Operating Grants	-	-	-	-	-
Job Order Recovery	511,855.49	-	511,855.49	(27,880.02)	539,735.51
Job Order Expenses	(469,898.66)	-	(469,898.66)	(972,178.25)	502,279.59
Gen Fund Admin Support Fee	-	-	-	-	-
Non-Operating Transfers	-	-	-	-	-
Non-Operating Activity	-	-	-	-	-
Non-O&M Activity	-	-	-	-	-
TOTAL NON-OPERATING REVENUE (EXPENSE)	(46,951,025.09)	8,405,925.82	(55,356,950.91)	(19,827,752.73)	(27,123,272.36)
INCOME (LOSS) BEFORE CAPITAL CONTRIBUTIONS	(37,567,474.03)	68,733,607.02	(106,301,081.05)	(21,105,115.01)	(16,462,359.02)
Capital Contributions	6,901,677.13	-	6,901,677.13	4,634,427.82	2,267,249.31
INCREASE (DECREASE) IN NET POSITION	(30,665,796.90)	68,733,607.02	(99,399,403.92)	(16,470,687.19)	(14,195,109.71)

**Miami-Dade Water and Sewer Department
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OPERATING & MAINTENANCE EXPENSES						
100057	OM Activity - GL use only (SC)	559,210	401,994	279,605	405,969	265,463
212005	Sewer Collect and Trans (SC)	-	-	-	13	-
260004	Security Services (SC)	780,000	250,186	387,660	295,242	358,332
260110	Communications (SC)	832,251	180,547	415,560	186,612	666,420
260402	Damages (SC)	136,320	67,757	68,087	72,420	14,844
350105	Construction Mgmt (SC)	-	19,678	-	-	-
360002	Sewer Collection & Trans (SC)	400	-	200	-	-
520521	Grounds Installs/Landscp (SC)	-	700	-	-	-
520601	Indoor Air Qly Insp Compl (SC)	75,000	-	37,350	2,568	37,671
520621	Install Mech/Hvac-Refr Eq (SC)	-	1,539	-	1,267	-
520661	Maint. of Mech Hvac Equip (SC)	-	53	-	-	-
520751	Install. of Plumb Equip (SC)	-	-	-	640	-
520777	Maint. of Plumbing Equip (SC)	-	2,146	-	5,773	2,756
520871	Misc Projects/Tasks (SC)	-	17,948	-	8,745	-
520905	Locksmith Services (SC)	-	(1)	-	219	-
520921	Structural Misc Task (SC)	-	2,939	-	36	-
620004	Sewer Collection & Trans (SC)	-	14,082	-	6,966	229,700
630117	Sewer Collection & Trans (SC)	2,500	-	1,243	-	1,149
650002	Sewer Collection & Trans (SC)	1,250,654	648,513	621,872	577,814	1,681,519
711301	Sewer Meter Related Work (SC)	1,034,574	413,610	516,014	321,825	494,078
711302	Maint Swr Meter Vaults (SC)	-	1,796	-	4,691	-
810002	Sewer Collection Actv (SC)	-	(3,520)	-	184,767	-
811015	Telemetry/SCADA (SC)	171,409	92,086	85,218	91,688	78,159
840001	Admin. & General (SC)	3,193,394	1,179,882	1,470,517	1,427,481	832,896
840002	Facilities Maint (SC)	10,500	6,026	5,219	8,282	4,043
840101	Cleaning (SC)	4,499,814	1,737,526	2,248,436	1,463,308	2,298,152
840102	Evaluation/Review (SC)	787,724	429,611	393,402	328,693	385,972
840103	Force Main Inspection (SC)	78,982	107,348	39,439	80,509	34,691
840104	Inspection-Repair Shop (SC)	892,317	514,954	443,719	702,895	337,540
840105	Joint Grouting (SC)	478,300	94,419	237,715	496,957	251,864
840106	Lateral TV Inspection (SC)	1,291,191	299,000	645,478	433,781	115,111
840107	Manhole Inspections (SC)	-	87,394	-	95,244	-
840108	Manhole Sealing (SC)	81,255	649,897	40,627	599,399	8,973
840109	Metering-Conductivity (SC)	368,639	39,977	184,068	143,152	245,117
840110	Metering-Night Flow (SC)	122,593	95,792	61,201	207,509	85,791

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840111	Metering-Pre/Post (SC)	150	-	75	-	27,472
840112	Special Projects Inspect (SC)	3,542,047	904,565	1,768,616	1,358,337	1,649,050
840113	Pump Station Improv Prog (SC)	-	(409)	-	-	-
840114	Smoke Test (SC)	1,200	22,437	600	46,906	551
840116	Wellfield Protect Inspec. (SC)	-	248,239	-	107,326	-
840117	I/I Contract - Inspection (SC)	2,058,060	106,592	1,023,013	30,990	459,400
840118	Sect Metal Sleeve Main Li (SC)	-	7,850	-	-	-
840119	Deroot Main Line (SC)	-	267	-	-	-
840120	Descale Main Line (SC)	-	14,599	-	-	-
840121	Heavy Clean Main Line (SC)	-	6,295	-	-	-
840122	Gravity Main CCTV Insp (SC)	-	605,379	-	-	-
840123	Grout Latrl Annular Space (SC)	-	13,024	-	-	-
840201	Air Rel Valve Maint & Ble (SC)	-	83,859	-	82,752	-
840202	Aut Air Rel Valve Install (SC)	-	-	-	4,179	-
840203	Autom Air Rel Valve Rep (SC)	-	202,428	-	311,942	-
840204	Dye Tests (SC)	-	16,825	-	18,610	-
840206	Force Main Repairs (SC)	807,255	413,744	401,209	239,725	(184,297)
840207	Gravity Main Installation (SC)	-	-	-	2,627	-
840208	Gravity Main Point Reps (SC)	5,594,645	1,863,609	2,795,438	2,265,550	3,293,963
840209	Lateral Location (SC)	-	855	-	-	-
840210	Lateral Point Repairs (SC)	565,487	925,322	281,240	836,763	583,835
840211	Maint./Rep-Rep Shop (SC)	403,900	139,578	200,738	71,101	146,411
840212	Manhole Installation (SC)	-	-	-	7,478	-
840213	Manhole-Repairs (SC)	3,293,100	767,368	1,642,961	825,422	1,101,945
840214	Restoration (SC)	-	447,033	-	319,865	241,920
840215	Sewer Lateral Inspection (SC)	-	389	-	-	-
840216	Sewer Lateral Install. (SC)	-	-	-	148	-
840217	System Valve Exercising (SC)	2,038,955	1,124,243	1,018,037	1,056,384	927,793
840218	System Valve Installation (SC)	7,150	27,687	3,554	54,540	2,756
840219	System Valve Repair (SC)	-	-	-	(2,844)	-
840220	I/I Contract - Maint/Repr (SC)	1,000,000	-	497,000	(199,455)	436,430
840240	Assisting Other Divisions (SC)	-	41,893	-	12,189	-
850129	Metering (SC)	40,400	65	20,200	94	27,779
Sewer Collection		35,999,375	15,337,611	17,835,309	15,605,094	17,145,247
100058	OM Activity - GL use only (SP)	878,841	626,585	439,421	632,180	417,220
212006	Sewer Pumping (SP)	123,680	152,646	61,776	67,138	57,656
260005	Security Services (SP)	1,220,000	399,720	606,340	157,091	790,168

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260120	Communications (SP)	906,277	256,659	452,519	272,325	181,166
320003	Sewer Pumping (SP)	-	7,171	-	-	-
350102	Construction Mgmt (SP)	-	-	-	1,779	-
360001	Sewer Pumping (SP)	747,587	198,007	373,387	377,299	365,129
520002	Admin. & General (SP)	1,000	(24,548)	497	12,815	-
520102	Install. of Elect Equip (SP)	-	-	-	-	8,700
520301	Fueling/Recovery Deliv (SP)	-	45,272	-	43,912	-
520522	Grounds Installs/Landscp (SP)	-	215	-	-	-
520542	Grounds Maint. Services (SP)	253,584	107,318	126,606	124,115	190,001
520622	Install Mech/Hvac-Refr Eq (SP)	-	4,792	-	2,827	18,835
520642	Maintenance Contracts (SP)	-	-	-	-	-
520662	Maint. of Mech Hvac Equip (SP)	4,500	4,777	2,237	3,287	18,468
520778	Maint. of Plumbing Equip (SP)	105,948	15,958	52,911	18,652	2,297
520872	Misc Projects/Tasks (SP)	-	25,912	-	5	2,297
520902	Carpentry (SP)	-	-	-	-	689
520906	Locksmith Services (SP)	-	(3)	-	1,405	-
520910	Masonry (SP)	-	-	-	12	-
520914	Painting (SP)	-	3,361	-	-	-
520922	Structural Misc Task (SP)	616,311	4,030	307,769	14,293	2,297
630112	Hazardous Waste Disposal (SP)	8,000	-	3,976	(15,010)	-
630114	Sewer Pumping (SP)	360,800	10,099	179,319	43,460	212,427
650001	Sewer Pumping (SP)	25,500	551	12,746	7,396	-
810001	Sewer Pumping Activities (SP)	-	(9,014)	-	(9,014)	-
811016	Telemetering/SCADA (SP)	905,526	1,130,256	450,453	1,113,435	294,067
830001	Adm&Gnl (SP)	1,783,419	1,020,582	873,331	918,495	826,535
830002	Adm&Gnl-Admin Support (SP)	658,536	402,115	328,856	227,504	316,750
830003	Adm&Gnl-Training (SP)	7,200	17,568	3,600	21,312	9,601
830004	Adm&Gnl-Supv (SP)	206,501	49,784	103,124	110,241	99,794
830005	Adm&Gnl-Other (SP)	576,911	395,387	287,079	465,478	170,456
830200	Operations (SP)	-	37,596	-	41,972	-
830201	OP-Shutdowns (SP)	925	2,856	463	-	62
830203	OP-Supv (SP)	1,293,973	544,672	646,249	587,838	622,698
830204	OP-Engineering (SP)	200	751	99	-	-
830205	OP-Operations (SP)	114,083	52	56,983	69,113	55,845
830206	OP-Other (SP)	7,568,116	1,099,091	3,779,102	967,460	3,571,406
830300	Equipment (SP)	7,716,400	3,099,377	3,862,668	3,626,454	3,511,103
830301	Equip-Routine (SP)	6,112,187	1,931,461	3,052,531	1,907,930	2,773,872
830302	Equip-Preventive (SP)	810,055	351,280	404,553	377,599	391,539

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830303 Equip-Predictive (SP)	3,700	24,380	1,849	34,308	1,057
830304 Equip-Corrective (SP)	7,677,050	7,851,187	3,825,176	6,719,844	2,947,875
830305 Equip-Engineering (SP)	100	414	50	-	-
830306 Equip-Supervision (SP)	915,559	467,328	457,317	511,121	435,786
830307 Equip-Other (SP)	49,476	729,908	24,647	316,206	18,345
830401 GroundsRoutine (SP)	4,600	1,162	2,286	2,826	4,594
830404 GroundsCorrective (SP)	3,000	465	1,494	1,578	459
830405 GroundsEngineering (SP)	-	948	-	-	-
830407 GroundsOther (SP)	-	103	-	-	46
830500 Structures (SP)	17,800	30,589	8,847	1,728	7,420
830501 Struct-Routine (SP)	60,000	503,646	30,000	482,085	51,815
830502 Struct-Preventive (SP)	1,100	-	547	2,331	-
830503 Struct-Predictive (SP)	15,200	51	7,558	2,853	46
830504 Struct-Corrective (SP)	176,086	694,593	87,857	561,519	95,919
830505 Struct-Engineering (SP)	15,100	448	7,505	-	-
830506 Struct-Supervision (SP)	607,408	336,959	303,348	284,870	244,300
830507 Struct-Other (SP)	3,058,122	804,819	1,526,915	556,024	1,432,998
830603 RemAct/Spil-Shutdowns (SP)	-	-	-	147	-
830700 Inspection (SP)	400	-	200	4,212	-
830703 Insp-ET's (SP)	34,125	123,799	17,063	123,840	14,993
830704 Insp-Prop Pump Stations (SP)	4,500	17,802	2,250	7,852	1,424
830802 Gas Monit Calib-Materials (SP)	-	70,900	-	-	-
830900 Emergency (SP)	125	28,305	63	22,791	62
830901 Emerg - Hurrican Preparat (SP)	-	66	-	-	1,562
830902 Emerg-Hurricane Recovery (SP)	500	-	250	-	551
830904 Emergency - Run Generator (SP)	400	7,057	200	1,047	138
830906 Emergency - OPP (SP)	-	13,581	-	-	-
830907 Assist other Division (SP)	200	35,074	100	49,203	-
850130 Utilities Monitoring (SP)	1,484,900	724,880	743,180	852,144	691,166
850203 Assistance to Other Div (SP)	850	-	426	-	756
850209 Maint/Rep-Diesel Eqp/Gens(SP)	136,291	31,982	67,902	136,082	50,046
850213 Maint/Rep-Pump Stations (SP)	363,850	89,661	181,315	76,949	97,508
850220 Maint/Rep-Struct/Grounds (SP)	100	-	50	5	23
850222 Underground Piping/Valves (SP)	51,225	-	25,459	10,512	484
850224 Remedial Action/Spills (SP)	50	-	25	-	46
850226 Telemetry/SCADA (SP)	5,750	-	2,858	-	-
850228 Odor Control (SP)	10,000	-	4,970	-	-
Sewer Pumping	47,703,631	24,502,442	23,800,298	22,952,874	21,010,500

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100059	OM Activity - GL use only (ST)	1,709,907	1,170,698	854,879	1,293,166	807,495
210001	Sewer Trmnt & Disposal (ST)	4,000,000	-	1,988,000	-	3,250,000
212007	Sewer Treat and Disposal (ST)	336,797	176,739	168,229	154,758	149,947
227001	Sewer Treatment Activity (ST)	1,598,671	252,517	795,539	(99,145)	239,267
228001	Sewer Treatment Activity (ST)	197,819	104,225	98,822	96,381	145,747
260006	Security Services (ST)	3,000,000	702,749	1,491,000	752,911	1,607,900
320002	Expense Projects (ST)	-	(56)	-	-	-
350107	Construction Mgmt (ST)	-	22,402	-	-	-
520302	Fueling/Recovery Deliv (ST)	3,000	18,341	1,500	29,428	-
520463	Fire Protection System (ST)	-	(40)	-	19,582	459
520501	Grounds Contract Services (ST)	259,841	152,364	129,749	203,550	227,530
520523	Grounds Installs/Landscp (ST)	-	4,921	-	4,520	-
520543	Grounds Maint. Services (ST)	1,353,560	605,441	675,721	598,101	684,488
520623	Install Mech/Hvac-Refr Eq (ST)	-	(49,825)	-	-	-
520643	Maintenance Contracts (ST)	-	93	-	-	-
520663	Maint. of Mech Hvac Equip (ST)	988,870	499,926	493,349	488,270	660,222
520779	Maint. of Plumbing Equip (ST)	-	300	-	444	-
520873	Misc Projects/Tasks (ST)	162,568	2,638	81,237	7,314	101,275
520923	Structural Misc Task (ST)	-	-	-	-	5,513
520974	Rentals-Other Divisions (ST)	100	438,357	50	426,683	395,084
610001	Sewer Treatment Plant (ST)	-	12,360	-	-	-
620001	Sewer Treatment Plant (ST)	1,150,000	312,520	571,550	408	529,229
630102	Hazardous Waste Disposal (ST)	-	-	-	-	-
630119	Sewer Treatment Plant (ST)	360,400	165,690	179,248	118,365	231,366
740001	LabS Treat & Disp Exp (ST)	2,843,401	1,393,559	1,418,687	1,392,734	1,491,904
810003	Sewer Treatment Actv (ST)	250,000	68,647	125,000	120,618	114,850
811017	Telemetry/SCADA (ST)	5,484,679	1,150,776	2,738,147	1,242,753	2,457,839
811018	Main/Rep-Rad/Com Eq (ST)	49,900	7,369	24,865	9,349	22,807
811021	Instl/Rep/Cam/Surv Eq (ST)	213,562	114,546	106,659	99,639	115,756
850001	Admin. & General (ST)	35,977,815	16,333,319	17,977,719	17,519,467	14,741,527
850002	Adm&Gnl-CMMS (ST)	405,159	106,048	202,319	268,983	241,525
850003	Adm&Gnl-Supervision (ST)*	125	-	62	-	73
850004	Adm & Gnl-Permitting (ST)	31,525	54,096	15,761	26,196	7,984
850005	CDL Random Testing (ST)	200	-	100	-	100
850006	Training (ST)	24,348	25,365	12,173	53,328	10,055
850007	Union Activities (ST)	200	-	99	-	94
850103	Emerg Power Generation (ST)	7,306	-	3,647	3,608	4,967

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850104	Odor Control (ST)	8,021,831	2,369,806	4,012,259	3,215,337	2,703,790
850105	Effluent Pumping (ST)	10,000	-	4,970	-	-
850106	Pumping Stations (ST)	5,996	-	2,982	-	18,262
850109	Training (ST)	87,715	41,921	43,833	55,563	41,796
850111	Purchased Treatment (ST)	125	-	62	-	546
850112	Reuse Facility (ST)	6,006	-	3,001	-	2,994
850114	Sludge Cons & Diges Ops (ST)	14,811	-	7,364	-	11,837
850115	Dewatering (ST)	2,955,998	2,024,827	1,480,566	2,046,507	1,500,404
850116	Solids Handling (ST)	12,027,545	4,587,412	6,012,536	4,890,094	6,462,522
850117	Headworks (ST)	150	-	75	-	459
850119	Secondary Clarification (ST)	33,574	-	16,795	47	16,770
850120	O2 Generation (ST)	447,494	127,099	222,521	75,140	277,544
850121	Non Emer Power Generation (ST)	384,876	82,447	192,202	138,591	182,592
850122	Final Station (ST)	1,500	-	746	-	115
850123	Deep Well Injection (ST)	1,200	27,550	597	435,185	785,758
850124	Tanker Duty (ST)	11,612	(333)	5,803	-	5,800
850125	Biosolids Processing (ST)	51,400	-	25,546	2,677	25,842
850127	Vessel Cleaning (ST)	159,138	45,194	79,520	15,078	73,135
850128	Special Projects (ST)	62,158	89,925	31,052	21,395	58,615
850202	Other Maintenance (ST)	498,218	155,145	247,835	425,434	214,523
850204	Assistance to Other Div (ST)	34,502	44,445	17,233	50,218	22,215
850206	Emerg Actv/Emg Gen-Stby (ST)	124,070	104,412	61,993	86,308	48,829
850208	Maint/Rep-Co-Generation(ST)	766,269	624,112	382,111	914,339	327,817
850210	Maint/Rep-Diesel Eqp/Gens(ST)	3,054,114	1,759,915	1,523,688	1,041,046	1,460,995
850211	Maint/Rep-Plant Equipment (ST)	15,858,786	7,681,524	7,911,681	6,982,699	8,638,557
850212	Maint/Rep-Instr/Ctrls/Mtrs(ST)	629,250	138,758	313,265	177,526	523,793
850214	Maint/Rep-Pump Stations (ST)	3,925	-	1,951	700	954
850215	Maint/Rep-Radio/Comm (ST)	300	-	149	-	161
850216	Maint/Rep-Cryogenic Plant (ST)	64,845	160,515	32,243	13,610	4,138
850217	Maint/Rep-Sldg Concnt/Digs(ST)	33,935	267,179	16,935	33,693	134,277
850218	Maint/Rep-Sldg Dewatering(ST)	44,422	2,380,949	22,087	14,303	19,774
850219	Maint/Rep-Sludge Handling (ST)	788,562	9,859	393,725	5,979	347,875
850221	Maint/Rep-Struct/Grounds (ST)	2,775,288	1,948,214	1,385,229	1,686,237	1,356,364
850223	Underground Piping/Valves (ST)	409,221	108,456	203,660	184,470	87,493
850225	Remedial Action/Spills (ST)	1,250	-	621	-	826
850227	Telemetry/SCADA (ST)	100	26,050	50	15,933	92
850230	Special Projects (ST)	2,445,589	1,433,221	1,219,973	882,165	666,287
Sewer Treatment and Disposal		112,225,530	50,084,687	56,030,970	48,241,685	54,268,754

**Miami-Dade Water and Sewer Department
 GL O&M Expense Analysis by O&M Activity
 As of March 31, 2020**

Report Id: WFR018
 Run on: 04/14/20 02:45 PM
 Source: GL

	Annual Budget 2020	YEAR-TO-DATE			
		Actual 2020	Budget 2020	Actual 2019	Budget 2019
Customer Accounting	10,850,526	4,017,285	4,418,961	4,145,053	4,005,445
Customer Service	27,216,057	13,503,411	13,566,469	13,083,030	12,750,278
General and Administration	120,400,963	48,844,531	60,155,723	48,543,377	57,277,312
TOTAL O&M EXPENSES	480,361,587	217,244,062	236,619,765	213,050,470	227,995,568
TOTAL DIRECT O&M WASTEWATER SYSTEM EXPENSES		89,924,740		86,799,654	
		Oct-Mar		Oct-Mar	

Miami-Dade Water and Sewer Department
Wastewater Capital Expenditures by Project/Sub-Projects

Data for 10/1/19 through 3/31/2020

Project No.	Project Description	Subproject No.	Subproject Description	Expenditures from 10/1/2019 to 3/31/2020
1002	NORTH DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	101947	NDWWTP FA MONITORING WELLS TO MEET FDEP REQ.	\$592,124.04
1002	NORTH DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	102220	NT-3C - NDWWTP - EDB # 3 (Replacement Electrical Bldg.)(WIFIA 2)	\$51,203.72
1003	CENTRAL DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	102205	2.21.02 PS 1 SEAWALL AND HARDENING PROJECT (FEMA)	\$6,856.33
1003	CENTRAL DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	102206	CD2.22.02 - PS 2 BEAUTIFICATION AND HARDENING CITY OF MIAMI (FEMA)	\$5,127.44
1006	SOUTH DISTRICT WASTEWATER TREATMENT PLANT EXPANSION - PHASE III	102102	SDWWTP FA MONITORING WELL REPLACEMENT	\$14,963.52
1007	SOUTH DISTRICT UPGRADES - WASTEWATER TREATMENT PLANT	102184	SDWWTP FOG RECOVERY STATION	\$237,734.65
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	101768	WASD SERVICE AREA WEST OF I-75 AND NORTH OF NW 170 ST. (ADM AREA)	\$166,769.32
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	101924	INSTALLATION OF A REDUNDANT SEWER FM FROM WEST SIDE OF INTERCOASTAL WATERWAY AT NE 163 ST TO NDWWTP	\$2,123,153.71
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102072	NL-1A TO PHASE 1 & 2: 60" FM FROM BISCAYNE BLVD. TO N. MIAMI AVE. Phase 1 & 2	\$192,387.11
1008	NORTH MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102245	OJUS SANITARY SEWER WITHIN THE OJUS URBAN AREA DISTRICT (DIRECTOR)	\$74,051.42
1009	CENTRAL MIAMI-DADE WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102200	BISCAYNE BASIN PROJECTS RELATED TO CL-1	\$1,379,714.16
1010	SOUTH DISTRICT WASTEWATER TRANSMISSION MAINS AND PUMP STATIONS IMPROVEMENTS	102050	UPGRADE 4" FM FROM PS 733 ON US1	\$158,367.16
1011	FLOW REDUCTION PROGRAM (FRP)	100050	REHABILITATION OF SEWER MAINS DUE TO I/I - SECTIONAL LINING	\$291,271.25
1011	FLOW REDUCTION PROGRAM (FRP)	101865	PEAK FLOW MANAGEMENT - PUMP STATION OPTIMIZATION PLAN (PSOP)	\$3.34
1012	SANITARY SEWER SYSTEM IMPROVEMENTS	100055	SPECIAL CONSTRUCTION - SANITARY SEWER IMPROVEMENTS	(\$38,405.32)
1013	WASTEWATER GENERAL MAINTENANCE AND OFFICE FACILITIES	101506	SOUTH MAINTENANCE CENTER	\$1,288.00
1013	WASTEWATER GENERAL MAINTENANCE AND OFFICE FACILITIES	101886	MIAMI GARDENS (CAROL CITY YARD) - MODULAR / STEEL BUILDING	\$57,864.81
1013	WASTEWATER GENERAL MAINTENANCE AND OFFICE FACILITIES	103005	SOUTH MIAMI HEIGHTS TRAILER INSTALLATION AND SITE DEVELOPMENT	\$241,512.39
1015	PUMP STATION IMPROVEMENTS PROGRAM	101454	PUMP STATION IMPROVEMENT PROGRAM	\$1,179,259.84
1018	PEAK FLOW MANAGEMENT FACILITIES	101774	Force Main in Doral 36-inch Diameter Sanitary Sewer FM: in 107 Avenue - from NW 7 St. to NW 25 Street	\$25,784.28
1019	SANITARY SEWER SYSTEM EXTENSION	100877	SANITARY SEWER SYSTEM EXTENSION	\$4,377,112.04
1019	SANITARY SEWER SYSTEM EXTENSION	101733	SANITARY SEWER SYSTEM EXTENSION FOR JPA's	\$182,305.60
1023	WASTEWATER TELEMETERING SYSTEM	100621	TELEMETERING SYSTEM - WASTEWATER	\$159,117.36
1024	WASTEWATER SYSTEM MAINTENANCE AND UPGRADES	100622	WASTEWATER SYSTEM UPGRADES	\$6,449,459.56
1025	LIFT STATION UPGRADES AND STRUCTURAL MAINTENANCE IMPROVEMENTS	100623	LIFT STATION STRUCTURAL MAINTENANCE & UPGRADES	\$553,974.46
1027	WASTEWATER EQUIPMENT AND VEHICLES	100625	MISCELLANEOUS TOOLS AND EQUIPMENT	\$221,499.78
1027	WASTEWATER EQUIPMENT AND VEHICLES	101729	VEHICLES/TRANSPORTATION EQUIPMENT	\$2,980,178.80
1027	WASTEWATER EQUIPMENT AND VEHICLES	101730	HEAVY CONSTRUCTION EQUIPMENT	\$4,454,642.21
1029	WASTEWATER TREATMENT PLANTS REPLACEMENT AND RENOVATION	100627	WASTEWATER TREATMENT PLANTS REHABILITATION	\$5,105,644.40
1029	WASTEWATER TREATMENT PLANTS REPLACEMENT AND RENOVATION	101732	SECURITY PROJECTS	\$491,876.51
1040	OCEAN OUTFALL LEGISLATION REGULATORY	101867	CT-2A - CDWWTP - HLD Improvements & Filtration Pilot Test	\$653,589.43
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102007	NE-2 - NDWWTP - Municipal Injection Wells (WIFIA 1)	\$15,105.05
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102009	CE-1 - CDWWTP - Municipal Injection Well PS	\$1,698,658.75
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102010	CE-2 - CDWWTP - Municipal Injection Wells (WIFIA 1)	\$14,075,617.11
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102038	CDWWTP - CENTRATE INJECTION WELL (CE-4)	\$2,143,042.34
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102080	NT-3 - NDWWTP - EDB # 2 (Electrical Bldg. for HLD)(WIFIA 2)	\$7,133.70
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102096	CDWWTP PUMP STATION FOR CENTRATE WELL (CE-3)	\$11,409,025.99
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102138	OWNERS REPRESENTATIVE SERVICES FOR OOL PROGRAM AND WASTEWATER SYSTEM	(\$17,664,641.95)
1040	OCEAN OUTFALL LEGISLATION REGULATORY	102222	CT-3C.1 - CDWWTP - EDB #2 (HLD)(WIFIA 2)	\$1,253,712.07
1040	OCEAN OUTFALL LEGISLATION REGULATORY	103007	CT-3B - CDWWTP - O2 Train and Secondary Clarifiers	\$4,662,341.28
1042	WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS	101967	WASTEWATER - PIPES AND INFRASTRUCTURE PROJECTS	\$248,396.00
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102500	SDWWTP - Headworks	\$99,130.04
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102501	SDWWTP - Oxygen Production	\$2,537,037.30
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102502	SDWWTP - Oxygenation Trains	\$433,823.44
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102503	SDWWTP - Chlorine Building	\$60,315.31
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102504	SDWWTP - Effluent Pump Station	\$3,945,926.14
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102506	SDWWTP - Digesters and Control Buildings	\$27,320,565.66
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102507	SDWWTP - Dewatering Facility	\$21,920.54
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102508	SDWWTP - FOG Removal Facility	\$643,413.66
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102509	SDWWTP - Odor Control	\$654,033.89
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102510	SDWWTP - General Electrical	\$40,055.09
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102511	SDWWTP - Chlorine Contact Chamber Structural	\$693,125.37
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102600	CDWWTP - Electrical Improvements	\$200,168.57
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102601	CDWWTP - Building improvements	\$552,753.92
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102602	Headworks Plant 1	\$927,472.74
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102603	CDWWTP - Headworks Plant 2	\$741,867.14
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102604	CDWWTP - Oxygenation Trains Plant 1	\$17,694.24
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102605	CDWWTP - Oxygenation Trains Plant 2	\$409,556.88
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102606	CDWWTP - Secondary Clarifiers Plant 1	\$61,662.48
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102607	CDWWTP - Secondary Clarifiers Plant 2	\$756,533.73
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102608	CDWWTP - RS Pump Stations Plant 1	\$347,663.08
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102609	CDWWTP - RS Pump Stations Plant 2	\$7,166,925.14
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102610	CDWWTP - Effluent Pump Station	\$6,227,826.29
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102613	CDWWTP - Digesters Plant 1	\$62,199.79
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102614	CDWWTP - Digesters Plant 2	\$6,545,751.54
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102615	CDWWTP - Dewatering Building	\$72,957.36
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102616	CDWWTP - Chlorination Facilities	\$266,320.14

**Miami-Dade Water and Sewer Department
Wastewater Capital Expenditures by Project/Sub-Projects**

Data for 10/1/19 through 3/31/2020

Project No.	Project Description	Subproject No.	Subproject Description	Expenditures from 10/1/2019 to 3/31/2020
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102618	CDWWTP - Co-Gen Facility	\$4,619,426.17
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102620	CDWWTP - Pump Station 1	\$1,074,194.31
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102621	CDWWTP - Pump Station 2	\$1,375,929.47
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102624	CDWWTP - Ventilation Improvements	\$25,242.78
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102626	CDWWTP - Oxygen Production	\$13,870,263.43
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102628	CONSENT DECREE PROGRAM MANAGEMENT & CONSTRUCTION MANAGEMENT	(\$13,826,015.54)
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102700	NDWWTP - Headworks and Sludge Degritting Transfer	\$121,878.41
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102701	NDWWTP - Primary Clarifiers and Odor Control	\$10,352,461.20
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102702	NDWWTP - Oxygenation Trains	\$1,389.37
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102703	NDWWTP - Oxygen Production	\$235,849.01
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102704	NDWWTP - Secondary Clarifiers	\$3,209,495.88
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102705	NDWWTP - Disinfection	\$4,751,629.90
1044	WASTEWATER TREATMENT PLANTS - CONSENT DECREE PROJECTS	102707	NDWWTP - Plant Wide Electrical	\$28,632.46
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102800	Rehabilitation of Sewer Mains - Dig and Replace, (Previously called Collection System I/I Repairs)	\$6,323,132.46
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102804	South Dade 54 inch PCCP FM Rehabilitation	\$346,893.48
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102807	Rehabilitation of 54 inch PCCP FM in the City of Miami	\$1,231.33
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102808	Replace Approximately 25 miles of AC force mains	\$3,831,135.52
1045	WASTEWATER COLLECTION AND TRANSMISSION LINES - CONSENT DECREE PROJECTS	102809	Opa-Locka Airport 48" PCCP force main replacement	\$259,039.37
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102900	DORAL BASIN - UPGRADE SEWAGE PS No. 418	\$255,558.07
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102902	Upgrade of PS#0692	\$5,949,431.45
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102903	Replacement of Switchgear PS#0414	\$732,460.59
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102904	Replacement of Switchgear and Rehabilitation of Wet well PS#0415	\$425,441.03
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102905	Replacement of Switchgear PS#0416	\$455,915.80
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102906	Replacement of Switchgear and Rehabilitation of Wet well PS#0417	\$2,858,664.28
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102908	Replacement of Plumbing and Electrical Equipment at PS#0301	\$200,445.89
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102910	Installation of 60 inch FM from Kendall Dr to PS#0536	\$131,444.63
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102911	Replacement of Switchgear at PS#0187	\$934,089.20
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102914	Upgrade of PS #0065, 0201, 0334, 0374, 0607	\$25,277.97
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102915	Upgrade of PS #00198, 0437, 0466, 0680	\$84,788.50
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102916	Upgrade of PS #0037, 0351, 0370, 0403	\$79,710.25
1046	SEWER PUMP STATION SYSTEMS - CONSENT DECREE PROJECTS	102917	Upgrade of PS #0441, 0491, 0710, 0827, 0852, 1236	\$823,714.57
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103000	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT - GRAVITY AND FORCE MAINS	\$1,809,367.56
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103001	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT - PUMP STATIONS	\$302,320.43
1047	WASTEWATER COMMERCIAL CORRIDORS ECONOMIC DEVELOPMENT	103002	SUPPLEMENTAL ENVIRONMENT PROJECT (SEP)	\$129,562.79
1048	South District Expansion	101757	CL-1 - Downtown Transmission FM Extension	\$15,777,323.00
1048	South District Expansion	102034	LAND ACQUISITION FOR WDWTP (WDWRRF) (WT-1L)	\$510,945.74
1048	South District Expansion	102055	ST-1B - SDWWTP - Step Feed & Oxygenation Train Rehab	\$277,723.93
1048	South District Expansion	102056	ST-2A SDWWTP - Headworks and Oxygenation Train	(\$594,460.40)
1048	South District Expansion	102150	SE-2 - SDWWTP - Municipal Injection Wells (WIFIA 1)	\$19,998,637.59
1048	South District Expansion	103011	SDWWTP - Electrical Building (ST-2D)(WIFIA 2)	\$1,793,112.01
1049	ESTABLISHED A PUMP STATION RESILIENCE PROGRAM (PSRP)	101930	REPLACEMENT OF MECHANICAL EQUIPMENT IN REGIONAL PUMP STATIONS	\$14,792.92
1049	ESTABLISHED A PUMP STATION RESILIENCE PROGRAM (PSRP)	102045	P.S. 2 BASIN UPGRADE - PHASE 1 LOCAL	\$1,245.00
1049	ESTABLISHED A PUMP STATION RESILIENCE PROGRAM (PSRP)	102192	OUT OF COMPLIANCE PUMP STATIONS	\$420,004.38
1049	ESTABLISHED A PUMP STATION RESILIENCE PROGRAM (PSRP)	102201	PS#0300 - REPLACEMENT OF MECHANICAL & ELECTRICAL EQUIPMENT	\$72,127.80
tures from 10/1/2019 to 3/31/2020				\$201,116,975.13