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VIA ELECTRONIC CORRESPONDENCE

January 31, 2017

CCN: 61644
File No: 8.DC.20.33

Chief, Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
P.O. Box 7611
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RE: DOJ No. 90-5-1-1-4022/1
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Florida Department of Environmental Protection
Southeast District – West Palm Beach
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West Palm Beach, FL 33406
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 – 2017
Semi-Annual Report No. 2**

Dear Sir/Madam:

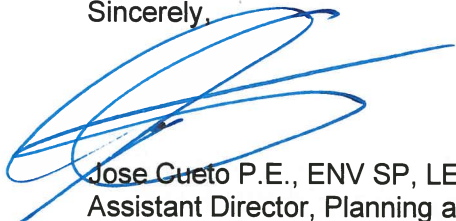
In accordance with the provisions of Paragraph 33 of the above referenced Consent Decree, on behalf of Miami-Dade County, the Water and Sewer Department (WASD) submits to both the United States Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) the 2017 Semi-Annual Report No. 2. The report includes the progress made in implementing the requirements of the Consent Decree during the period of time from July 1, 2017 through December 31, 2017. The report also includes the anticipated work to be completed over the next two calendar quarters through June 30, 2018.

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) 552-8884.

Sincerely,



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

Attachment: 2017 Semi-Annual Report No. 2

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2017 Semi-Annual Report No. 2 (Seventh Semi-Annual Report)

July 1, 2017 through December 31, 2017

Prepared for

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

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

Prepared by

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



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Acronyms and Abbreviations

AASIS	Active As-built Supplemental Information Systems
AC	Asbestos Cement
BODR	Basis of Design Report
CD	Consent Decree
CDWWTP	Central District Wastewater Treatment Plant
CIP	Capital Improvement Project
CIPP	Cured in Place Pipe
CMOM	Capacity, Management, Operations and Maintenance
County	Miami-Dade County
DOJ	Department of Justice
EFT	Electronic Funds Transfer
EPA	Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FM	Force Main
FMOPMARF	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
GSS	Gravity Sewer System

Acronyms and Abbreviations (continued)

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

Acronyms and Abbreviations (continued)

WASD	Miami-Dade Water and Sewer Department
WCTL	Wastewater Collection and Transmission Line
WCTS	Wastewater Collection and Transmission System
WWTP	Wastewater Treatment Plant

1.0 Executive Summary

On May 21, 2013, Miami-Dade County ("County") approved a Consent Decree ("CD") with the United States of America, the State of Florida Department of Environmental Protection, and the State of Florida, in the case styled *United States of America et. al. v. Miami-Dade County, Florida*, No. 1:12-cv-24400-FAM. On June 6, 2013, the CD was lodged with the United States District Court for the Southern District of Florida ("Court"). The Effective Date of the CD is December 6, 2013 (six months after the date of lodging). On April 9, 2014, the Court approved the CD with the United States of America, the Florida Department of Environmental Protection, and the State of Florida.

The County submits this Semi-Annual Report ("Report") to the Environmental Protection Agency (EPA) and the State of Florida Department of Environmental Protection (FDEP) for review and comment in accordance with the requirements of Paragraph 33 of the CD. In accordance with the CD, this Report includes a description of the projects and activities completed and milestones achieved during the previous two calendar quarters (July 1, 2017 through December 31, 2017), and also provides projections for significant projects and activities anticipated to be completed in the next two calendar quarters (January 1, 2018 through June 30, 2018).

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.

In accordance with Section IX, Paragraph 52 of the Consent Decree (CD), on September 19, 2017, the County notified EPA/FDEP of a failure to meet CD compliance date of September 19, 2017, for Appendix D Capital Improvement Project (CIP) 2.24 Gas Monitoring due to Hurricane Irma. The Force Majeure notification letter due to Hurricane Irma sent on September 20, 2017, stated that the County anticipated delays of up to fourteen (14) days for projects in construction. CIP 2.24 was completed ten (10) days past the compliance date of September 19, 2017. This Project is pending EPA and FDEP County Force Majeure claim determination.

In addition, the County failed to meet the CD compliance dates for 1) CIP 2.2 Repair to Various Buildings on September 6, 2017, 2) CIP 2.17 Chlorination Facilities on September 29, 2017, 3) CIP 2.3 Central District WWTP Headworks/Grit Basin Plant 1 on October 22, 2017, 4) CIP 2.22 Pump Station No.2 on October 22, 2017, 5) CIP 4.5 South Dade 54-inch Prestressed Concrete Cylindrical Pipe (PCCP) FM Rehabilitation on November 27, 2017, and 6) CIP 5.17 Upgrade of Pump Stations Nos. 0037, 0351, 0370, and 403 on December 31, 2017.

The County continues to be fully engaged with the successful implementation and compliance of the CD. Specifically, with the execution of the eighty-one (81) capital improvement projects included in Appendix D which have an approximate total cost of \$1.55 billion, and the

Supplemental Environmental Project (SEP) included in Appendix E. As of this reporting period, eighteen (18) projects with a total cost of \$224M have been completed and more than forty (40) projects with an approximate total cost of \$1.07 billion are currently in the procurement and construction phases. Despite the significant efforts and progress up to date, the County has encountered challenges that have delayed the completion of certain capital improvement projects. This is evident by the missed CD compliance dates of the CIPs listed above. On December 22, 2017, the County submitted a correspondence detailing the challenges being encountered and a request for non-material schedule modifications of forty-three (43) projects. The modifications of these project schedules are pending approval by EPA and FDEP.

Exclusive of the six CD requirements described above, the County has complied with all other CD requirements for the previous two calendar quarters. The projects, activities, and milestones achieved, and the deliverables submitted to EPA/FDEP are listed in Table 1-1. The upcoming projects, activities, milestones, and deliverables for the next two calendar quarters are listed in Table 1-2. Additional program and project information is included in the Work Progress Tables and Gantt charts in Appendix A and Appendix B, respectively.

Table 1-1 Completed CD Projects, Activities, Milestones, and Deliverables				
CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Completion or Submittal Date	CD Compliant (Yes/No)
Make available a copy of each specified Deliverable in the Public Document Repository (PDR) no later than one business day from submission	Section V, para 9	Ongoing	Ongoing	Yes
Ensure Adequate Pumping, Transmission and Treatment Capacity under the conditions of CD Appendix A	Section VI, para 18(a)	Ongoing	Ongoing	Yes
Continue implementing existing Pump Station Remote Monitoring Program	Section VI, para 18(b)	Ongoing	Ongoing	Yes
Continue implementing existing Spare Parts Program	Section VI, para 18(d)	Ongoing	Ongoing	Yes
Continued Implementation of Sanitary Sewer Overflow (SSO) Identification and Reporting	Section VI, para 19(b)	Within 24 hours and 5 days of known occurrence	Ongoing	Yes
Submit 2017 Request for Modification to Interim Milestones Report No. 6	Section VI, para 19(i) & Section XX, para 82	N/A	7/28/2017	Yes
Post 2017 Request for Modification to Interim Milestones Report No. 6 in PDR	Section V, para 9	1 business day after submittal	7/28/2017	Yes
Submit Scope Modification Request for CD CIP 5.9 Letter	Section XI, para 19(i) and Section XX	N/A	7/28/2017	Yes
Post Scope Modification Request for CD CIP 5.9 Letter in PDR	Section V, para 9	1 business day after submittal	7/28/2017	Yes
Submit 2017 Quarterly Report No. 2	Section IX, para 32	7/31/2017	7/31/2017	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 2017 Quarterly Report No. 2 in PDR	Section IX, para 36	1 business day after submittal	7/31/2017	Yes
Submit 2017 Semi-Annual Report No. 1	Section IX, para 33	7/31/2017	7/31/2017	Yes
Post 2017 Semi-Annual Report No. 1 in PDR	Section IX, para 36	1 business day after submittal	7/31/2017	Yes
Submit Delay Notification Letter for CD CIP 2.17, Chlorination Facilities at the CD WWTP	Section XI, para 52 & Section XVII, para 77	N/A	8/17/2017	Yes
Post Delay Notification Letter for CD CIP 2.17, Chlorination Facilities at the CD WWTP in PDR	Section V, para 9	1 business day after submittal	8/17/2017	Yes
Submit Clarification of Maintenance of Outfall Contained in WWTP OMP	Section XI, para 19(h)	N/A	8/30/2017	Yes
Post Clarification of Maintenance of Outfall Contained in WWTP OMP in PDR	Section V, para 9	1 business day after submittal	8/30/2017	Yes
CD CIP 3.9 Flood Mitigation	Section VI, para 19(i)	8/31/2017	6/24/2016	Yes
CD CIP 2.2 Repair to Various Buildings	Section VI, para 19(i)	9/6/2017	9/26/2019	Pending Dec 22 nd Time Extension Request Determination
Submit Sewer Overflow Response Plan (Final)	Section VI, para 19(b)	9/18/2017	9/18/2017	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 Sewer Overflow Response Plan (Final) in PDR	Section V, para 9	1 business day after submittal	9/19/2017	Yes
CD CIP 2.24 Gas Monitoring and Alarms	Section VI, para 19(i)	9/19/2017	9/29/2017	No (Pending EPA/FDEP Force Majeure Determination)
Submit Force Majeure Notification Letter – Hurricane Irma	Section XI, para 52 & Section XVII, para 77	9/20/2017	9/20/2017	Yes
Post Force Majeure Notification Letter – Hurricane Irma in PDR	Section V, para 9	1 business day after submittal	9/20/2017	Yes
Submit Update on Delay of CD CIP 5.16 Notification Letter	Section VI, para 19(i) & Section XVII, para 77	N/A	9/22/2017	Yes
Post Update on Delay of CD CIP 5.16 Notification Letter in PDR	Section V, para 9	1 business day after submittal	9/22/2017	Yes
Submit Notification of Completion for CD CIP 2.24	Section XI, para 19(i)	N/A	9/29/17	Yes
Post Notification of Completion for CD CIP 2.24	Section V, para 9	1 business day after submittal	9/29/2017	Yes
CD CIP 2.17 Chlorination Facilities	Section VI, para 19(i)	9/29/2017	10/15/2018	Pending Dec 22 nd Time Extension Request Determination

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 Delay Notification Letter for CIP 4.5	Section XI, para 52 & Section XVII, para 77	N/A	10/10/2017	Yes
Post Delay Notification Letter for CIP 4.5 in PDR	Section V, para 9	1 business day after submittal	10/10/2017	Yes
Submit Response to EPA and FDEP Comments on the SOP for Calculating Recovered SSO Volume	Section X, para 50	10/17/2017	10/17/2017	Yes
Post Response to EPA and FDEP Comments on the SOP for Calculating Recovered SSO Volume in PDR	Section V, para 9	1 business day after submittal	10/17/2017	Yes
Submit Fats Oils and Grease Control Program (Final)	Section VI, para 19(a)	10/18/2017	10/18/2017	Yes
Post Fats Oils and Grease Control Program (Final) in PDR	Section V, para 9	1 business day after submittal	10/19/2017	Yes
Submit Status Update on CD CIP 2.22	Section VI, para 19(i) & Section XVII, para 77	N/A	10/19/2017	Yes
Post Status Update on CD CIP 2.22 in PDR	Section V, para 9	1 business day after submittal	10/19/2017	Yes
CD CIP 2.3 Headworks/Grit Basin Plant 1	Section VI, para 19(i)	10/22/2017	3/16/2019	Pending Dec 22 nd Time Extension Request Determination
CD CIP 2.22 Pump Station No. 2	Section VI, para 19(i)	10/22/2017	5/25/2019	Pending Dec 22 nd Time Extension Request Determination

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 2017 Quarterly Report No. 3	Section IX, para 32	10/30/2017	10/30/2017	Yes
Post 2017 Quarterly Report No. 3 in PDR	Section IX, para 36	1 business day after submittal	10/30/2017	Yes
Submit Delay Notification for CD CIP 1.2 Letter	Section XI, para 52 & Section XVII, para 77	N/A	10/31/2017	Yes
Post Delay Notification for CD CIP 1.2 Letter in PDR	Section V, para 9	1 business day after submittal	10/31/2017	Yes
Submit Hauled Waste Manifest Guidance Manual	Section XI, para 19(h)	10/31/2017	10/31/2017	Yes
Post Hauled Waste Manifest Guidance Manual in PDR	Section V, para 9	1 business day after submittal	11/1/2017	Yes
Submit Force Main Rehabilitation / Replacement Program (Final)	Section VI, para 19(g).(iv)	N/A	11/2/2017	Yes
Post Force Main Rehabilitation / Replacement Program (Final) in PDR	Section V, para 9	1 business day after submittal	11/3/2017	Yes
Submit Status Update on CD CIP 2.2	Section VI, para 19(i) & Section XVII, Para 77	N/A	11/03/2017	Yes
Post Status Update on CD CIP 2.2 in PDR	Section V, para 9	1 business day after submittal	11/3/2017	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 – Hurricane Irma Follow-up Letter	Section XI, para 52 & Section XVII, para 77	N/A	11/7/2017	Yes
Post Force Majeure – Hurricane Irma Follow-up Letter in PDR	Section V, para 9	1 business day after submittal	11/7/2017	Yes
Submit Failure to Meet Compliance Date Notification for CD CIP 2.3	Section VI, para 19(i) & Section XVII para 77	N/A	11/7/2017	Yes
Post Failure to Meet Compliance Date Notification for CD CIP 2.3 in PDR	Section V, para 9	1 business day after submittal	11/7/2017	Yes
Submit Delay Notification Letter for CD CIP 5.6	Section XI, para 52 & Section XVII para 77	N/A	11/9/2017	Yes
Post Delay Notification Letter for CD CIP 5.6 in PDR	Section V, para 9	1 business day after submittal	11/9/2017	Yes
Submit Sewer System Asset Management Program (Final)	Section VI, para 19(d)	N/A	11/14/2017	Yes
Post Sewer System Asset Management (Final) in PDR	Section V, para 9	1 business day after submittal	11/15/2017	Yes
Submit Pump Station Operations and Preventative Maintenance Program (Final)	Section VI, para 19(f)	11/27/2017	11/14/2017	Yes
Post Pump Station Operations and Preventative Maintenance Program (Final) in PDR	Section V, para 9	1 business day after submittal	11/15/2017	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 Information Management System Program (Final)	Section VI, para 19(c)	N/A	11/14/2017	Yes
Post Information Management System Program (Final) in PDR	Section V, para 9	1 business day after submittal	11/15/2017	Yes
Submit Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program (Final)	Section VI, para 19(g)	N/A	11/14/2017	Yes
Post Force Main Operations, Preventative Maintenance and Assessment/Rehabilitation Program (Final) in PDR	Section V, para 9	1 business day after submittal	11/15/2017	Yes
Submit Gravity Sewer System Operations and Maintenance Program (Final)	Section VI, para 19(e)	11/20/2017	11/14/2017	Yes
Post Gravity Sewer System Operations and Maintenance Program (Final) in PDR	Section V, para 9	1 business day after submittal	11/15/2017	Yes
Submit Financial Analysis Program (Final)	Section VI, para 19(j)	11/20/2017	11/16/2017	Yes
Post Financial Analysis Program (Final) in PDR	Section V, para 9	1 business day after submittal	11/16/2017	Yes
Submit Delay Notification Letter for CD CIP 5.4	Section XI, para 52 & Section XVII, para 77		11/21/2017	Yes
Post Delay Notification Letter for CD CIP 5.4 in PDR	Section V, para 9	1 business day after submittal	11/21/2017	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)
CD CIP 4.05 – South Dade 54-inch PCCP FM Rehabilitation	Section VI, para 19(i)	11/27/17	12/23/2018	Pending Dec 22 nd Time Extension Request Determination
Submit Delay Notification Letter for CD CIP 2.4	Section XI, para 52 & Section XVII, para 77		11/28/2017	Yes
Post Delay Notification Letter for CD CIP 2.4 in PDR	Section V, para 9	1 business day after submittal	11/28/2017	Yes
Submit Delay Notification Letter for CD CIP 5.12	Section XI, para 52 & Section XVII, para 77		11/28/2017	Yes
Post Delay Notification Letter for CD CIP 5.12 in PDR	Section V, para 9	1 business day after submittal	11/28/2017	Yes
Submit Delay Notification Letter for CD CIP 5.17	Section XI, para 52 & Section XVII, para 77		12/5/2017	Yes
Post Delay Notification Letter for CD CIP 5.17 in PDR	Section V, para 9	1 business day after submittal	12/5/2017	Yes
Submit Failure to Meet Compliance Date for CD CIP 4.5	Section VI, para 19(i) & Section XVII para 77	N/A	12/7/2017	Yes
Post Delay Notification Letter for CD CIP 5.17 in PDR	Section V, para 9	1 business day after submittal	12/5/2017	Yes
Submit Delay Notification Letter for CD CIP 5.11	Section XI, para 52 & Section XVII, para 77		12/11/2017	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 Delay Notification Letter for CD CIP 5.17 in PDR	Section V, para 9	1 business day after submittal	12/5/2017	Yes
Submit Potential Delay Notification Letter for CD CIP 5.1	Section XI, para 52 & Section XVII, para 77		12/13/2017	Yes
Post Potential Delay Notification Letter for CD CIP 5.1 in PDR	Section V, para 9	1 business day after submittal	12/13/2017	Yes
Submit Potential Delay Notification Letter for CD CIP 2.27	Section XI, para 52 & Section XVII, para 77		12/15/2017	Yes
Post Potential Delay Notification Letter for CD CIP 2.27 in PDR	Section V, para 9	1 business day after submittal	12/15/2017	Yes
Submit Potential Delay Notification Letter for CD CIP 5.7	Section XI, para 52 & Section XVII, para 77		12/15/2017	Yes
Post Potential Delay Notification Letter for CD CIP 5.7 in PDR	Section V, para 9	1 business day after submittal	12/15/2017	Yes
Submit Request for Schedule Modifications	Section VI, para 19(i), Section VIII & Section XX		12/22/2017	Yes
Post Request for Schedule Modifications in PDR	Section V, para 9	1 business day after submittal	12/22/2017	Yes
CD CIP 5.17 Upgrade of Pump Stations Nos. 0037, 0351, 0370, 0403	Section VI, para 19(i)	12/31/17	11/20/2018	Pending Dec 22 nd Time Extension Request Determination

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*
CD CIP 4.10 Opa-Locka Airport 48" PCCP Force Main Replacement	Section VI, para 19(i)	1/28/2018	1/28/2018
Submit Responses to WWTP OMP EPA Comments	Section VI, para 19(h)	1/29/2018	1/29/2018
Post Responses to WWTP OMP EPA Comments to PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2017 Quarterly Report No. 4	Section IX, para 32	1/31/2018	1/31/2018
Post 2017 Quarterly Report No. 4 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2017 Semi-Annual Report No. 2	Section IX, para 33	1/31/2018	1/31/2018
Post 2017 Semi-Annual Report No. 2 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit Responses to Hauled Waste Manifest Guidance Manual EPA Comments	Section VI, para 19(h)	2/13/2018	2/13/2018
Submit Responses to Hauled Waste Manifest Guidance Manual EPA Comments	Section IX, para 36	1 business day after submittal	1 business day after submittal
Submit 2017 Annual Report	Section IX, para 34	3/1/2018	3/1/2018
Post 2017 Annual Report in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
CD CIP 4.4 North Dade 72 inch PCCP FM Rehabilitation	Section VI, para 19(i)	3/5/2018	5/5/2016
CD CIP 1.09 FOG Removal Facility	Section VI, para 19(i)	4/6/2018	5/24/2018
CD CIP 3.1 Headworks and Sludge Degritting & Transfer	Section VI, para 19(i)	4/7/2018	12/6/2017
CD CIP 2.5 Oxygenation Trains Plant 1	Section VI, para 19(i)	4/15/2018	5/1/2018
Submit 2018 Quarterly Report No. 1	Section IX, para 32	4/30/2018	4/30/2018

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

CD Projects, Activities, and Milestones	CD Reference	CD Deadline	Anticipated Completion or Submittal Date*
Post 2018 Quarterly Report No. 1 in PDR	Section IX, para 36	1 business day after submittal	1 business day after submittal
CD CIP 5.4 Replacement of Switchgear PS#0414	Section VI, para 19(i)	5/9/2018	9/18/2018
CD CIP 5.6 Replacement of Switchgear PS#0416	Section VI, para 19(i)	5/9/2018	9/16/2018
CD CIP 5.9 Replacement of Pumping and Electrical Equipment at PS#0301	Section VI, para 19(i)	5/9/2018	3/24/2021
CD CIP 5.10 Upgrade of PS#0488	Section VI, para 19(i)	5/9/2018	12/8/2016
CD CIP 5.11 Installation of 48 inch FM from Kendall Dr. to the Suction Side of PS#0536	Section VI, para 19(i)	5/9/2018	5/18/2018
CD CIP 5.12 Replacement of Switchgear at PS#0187	Section VI, para 19(i)	5/9/2018	6/29/2018
CD CIP 2.4 Headworks/Grit Basin Plant 2	Section VI, para 19(i)	5/22/2018	11/26/2018
CD CIP 5.16 – Upgrade of Pump Station Nos. 0198, 0437, 0466 and 0680	Section VI, para 19 (i)	12/31/2016	3/1/2018
CD CIP 2.2 Repair to Various Buildings	Section VI, para 19(i)	9/6/2017	3/25/2018
CD CIP 2.17 Chlorination Facilities	Section VI, para 19(i)	9/29/2017	4/18/2018
CD CIP 2.3 Headworks/Grit Basin Plant 1	Section VI, para 19(i)	10/22/2017	6/19/2018
CD CIP 2.22 Pump Station No. 2	Section VI, para 19(i)	10/22/2017	5/25/2018
CD CIP 4.5 – South Dade 54-inch PCCP FM Rehabilitation	Section VI, para 19(i)	11/27/17	3/28/2018
CD CIP 5.17 Upgrade of Pump Stations Nos. 0037, 0351, 0370, 0403	Section VI, para 19(i)	12/31/17	2/23/18

*Reflect dates from the December 2017 CD Program Schedule

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

Table 1-3 Issues Log			
Item	Date	Description	Resolution/Clarification/Decision
1	3/28/17	EPA and FDEP requested that WASD submits a more detailed Capacity, Management, Operations and Maintenance (CMOM) Consolidated Implementation Schedule than the one submitted on March 31, 2016.	On March 28, 2017, WASD, EPA and DOJ held a teleconference. At that teleconference, it was agreed that an updated CMOM consolidated schedule will be submitted 30 days after all CMOM Programs have been approved. This item is pending approval of all CMOM Programs.
2	4/20/17	Section VI Paragraph 19.(c).(x).(G) of the CD mandates, “Determination via suitable as-built drawings, or GPS or traditional surveying field measurements, elevations of all manhole rim elevations and sewer inverts at connections to manholes and Pump Stations and their inclusion into GIS.”	At the April 20, 2017 EPA/FDEP/WASD CD Program Update Meeting, WASD expressed that as of the end of March 2017, WASD was unable to collect the elevations of all manhole rim elevations and sewer inverts at connections to manholes and Pump Stations. They could not be obtained for reasons ranging from encroachments to surcharged manhole or manhole located on private property. WASD proposed that the data not obtained in the field, be collected as an implementation activity to be added in the CMOM Consolidated Implementation Schedule. EPA/FDEP agreed to the proposal. The completion of this task will be a combination of a desktop review and further field investigations, both of which will be accomplished as an implementation activity. This item is pending approval of all CMOM Programs and subsequent submittal of the CMOM Consolidated Implementation Schedule.

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
3	5/25/17	Section VI Paragraph 19.(c).(x).(B) of the CD mandates, "Streamlining of the GIS data entry process for new assets, including electronic as-built data and necessary standards so that all new assets are added to the GIS system within ninety (90) calendar days of their activation in the field." At the May 25, 2017 EPA/FDEP/WASD CD Program, the County stated that WASD has implemented significant processes improvements to meet this requirement. The GIS integration of all projects conveyed and activated on June 6, 2017, are being tracked. WASD stated that the metrics will be reported in the 2017 Annual Report.	EPA/FDEP had no issues with the information being included in the 2017 Annual Report. This item is pending the submittal of the 2017 Annual Report March 1, 2018.
4	7/20/17	At the July 20, 2017 EPA/FDEP/WASD CD Program Update Meeting, WASD proposed a scope modification for CIP 5.9 Replacement of Plumbing and Electrical Equipment at PS #0301.	The scope modification request for CD CIP 5.09, to include the construction of a new Submersible PS, exceeds the CD description and as such will require a revision to the CD Appendix-D CIP 5.09 schedule. After the presentation, EPA/FDEP requested a formal request for the proposed change. On July 28, 2017, the County sent EPA/FDEP an official scope modification request for CD CIP 5.09 Replacement of Plumbing and Electrical Equipment. Final decision is pending.

Table 1-3 Issues Log

Item	Date	Description	Resolution/Clarification/Decision
5	8/17/17	At the August 17, 2017 EPA/FDEP/WASD teleconference, WASD brought up challenges being experienced in the execution of the CD projects. They include lack of skilled laborers related to market saturation and poor contractor performance. It was agreed that these were issues that will not be able to mitigate delays.	Related to the challenges being experienced in the execution of the CD projects, FDEP mentioned that this will only be exacerbated by the approaching OOL Program project schedules. On October 23-25, 2017, EPA/FDEP visited WASD and challenges on project executions were formally presented. On December 7, 2017, EPA/FDEP/WASD had a teleconference to discuss Appendix D deadlines and the CD and OOL Programs sequencing/coordination effort. EPA/FDEP asked that the County prepare a Master Letter requesting schedule modifications to all projects discussed to include a justification for the contingencies requested for each project. The issues discussed were considered in the analysis of the proposed "new recommended CIP compliance dates" included in the County's Request for Schedule Modifications correspondence to EPA/FDEP on December 22, 2017. Final decision is pending.
6	12/15/17	On December 15, 2017, WASD requested an extension for the deadline for the response to EPA/FDEP comments on the WWTP Operations and Maintenance Program (OMP) and the submittal of the updated and approved WWTP OMP. The new compliance date will be January 29, 2018.	At the December 2017 EPA/FDEP/WASD CD Program Meeting, FDEP approved the time extension. On December 21, 2017 EPA approved the time extension.

2.0 Introduction

2.1 Purpose

On June 6, 2013, the CD was lodged with the United States District Court for the Southern District of Florida (“Court”). The Effective Date of the CD is December 6, 2013 (six months after the date of lodging). Six years from the Effective Date of the Consent Decree and each subsequent year until termination, the United States, FDEP, and Miami-Dade agree to consider whether to discontinue the Semi-Annual Reports. If the United States, FDEP and Miami-Dade agree to discontinue the Semi-Annual Reports, such modification shall be considered a non-material change to this CD pursuant to Section XX (Modification); and the information required in Subparagraphs 33(a) through (d) in the CD shall then be included in each Annual Report submitted pursuant to Paragraph 34 of the CD and shall cover the applicable Calendar Year rather than two (2) Calendar Quarters. On April 9, 2014, the Court approved a CD with the United States of America, the Florida Department of Environmental Protection, and the State of Florida. Pursuant to Section IX of the CD, the County is required to submit a Semi-Annual Report to EPA and FDEP. Miami-Dade has prepared this Semi-Annual Report to satisfy the reporting requirements found in Paragraph 33 of the CD.

2.2 Requirements

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

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

2.3 Reporting Schedule

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

2.4 Reporting Structure

Work progress is presented in the body of the Report in a narrative format as well as in Tables found in Appendix A. The narrative includes a brief description of each CD project, as well as any activities completed or milestones that were achieved in the previous two calendar quarters and those anticipated to be completed in the next two (2) Calendar Quarters. In addition to these descriptions, a schedule containing each of the projects in Gantt chart format is provided in Appendix B.

3.0 Work Progress

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

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

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

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

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

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

3.3 Supplemental Environmental Project ("SEP") Plan

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

During the reporting period, WASD obtained the necessary permits from the Fire Department and the Department of Health for the water main portion of the project, WASD completed the procurement/advertisement process, the NTP was issued to the lowest bidder R.P. Utility on December 18, 2017, and a preconstruction meeting was held with R.P. Utility on December 11, 2017.

In the next two calendar quarters, the Contractor will obtain all necessary construction permits to start work, will complete the administrative submittal process, and will commence installing the new gravity sewer system. The SEP is on schedule to meet the CD compliance deadline of April 8, 2019.

4.0 Additional Information

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

4.1 State's Ocean Outfall Legislation (OOL)

In 2008, the Florida Legislature enacted a law requiring all wastewater facilities in southeast Florida utilizing ocean outfalls for disposal of treated wastewater to reduce nutrient load discharges, cease the normal use of outfalls, and expand reuse systems, all by the end of 2025.

The EPA, FDEP, and Miami-Dade County acknowledged that the County's implementation of the OOL may impact the scope of scheduling certain capital improvement projects identified in the Consent Decree Appendix D. Pursuant to Paragraph 19(i), any modifications agreed upon in writing by the EPA, FDEP, and the County to this list of projects or schedules set forth in Appendix D shall constitute a non-material change to the Consent Decree as set forth in Section XX (Modification).

During the reporting period, the OOL Program submitted a Compliance Plan 2017 Update (July 1, 2017) to FDEP with the updated projects required meet the OOL schedule and all compliance issues. WASD will continue adjusting projects and schedules through the design phase. WASD is committed to meeting the objectives and requirements of the OOL and keeps the public informed of its progress through a public communication program. WASD continues to work with FDEP to address the reclaimed water reuse requirements. A draft Wastewater Reuse Feasibility Analysis is almost complete by January 1, 2018, but not yet available for internal review.

As of January 1, 2018, design contracts have been executed for South District WWTP upgrades and work is underway. The Basis of Design Reports for the South District WWTP Phase 1 upgrades will be completed during the next reporting period. The draft Conceptual Design Report for the Central District WWTP is in WASD review. The Conceptual Design Report will be completed during the next reporting period and the design phase will proceed from there. Two industrial injection wells at the Central District WWTP have finished construction and the injection well pump station is now under construction. The industrial injection well system will be operational by the end of 2018 to divert nutrients out of the ocean outfall. The conceptual design for the West District WWTP started before January 1, 2018. A technology selection task for this greenfield plant will precede the actual conceptual design. Land acquisition for the proposed new western wastewater treatment plant is also proceeding.

Appendix A

Work Progress Tables

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

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
18(a)	Adequate Pumping, Transmission and Treatment Capacity Program	The Adequate Pumping, Transmission and Treatment Capacity Program is being implemented in accordance with Paragraph 18(a) of the CD. This program was undertaken to ensure that adequate transmission and treatment capacity exists within the County. Pursuant to Appendix A of the CD; monthly capacity certification reports are prepared by RER-DERM and kept on file by WASD. Upon request, these reports will be provided to EPA/FDEP.	1. Monitored and tracking the monthly submittal of the Elapsed Time (ET) readings by each Volume Sewer Customer Utility. 2. Placed under Moratorium pump stations that exceeded the maximum 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT). 3. Removed from Moratorium status pump stations for which the utility completed and certified the Remedial Action Plans (RAP) to bring below the 10 hours pursuant to the Nominal Average Pump Operating Time (NAPOT). 4. Completed monthly reports for the Certification of Nominal Average Pump Operating Time (NAPOT) for each Volume Sewer Customer Utility. 5. Provided the RER-DERM Web page link to all Volume Sewer Customer Utilities to have access to the Nominal Pump Operating Time (NAPOT) information. 6. Continued to use the ET system/database to automatically notify via email when the system identifies a Duplicate ET reading. 7. Continued to use the ET system/database to automatically place pump stations under Incomplete Moratorium (IN) if a Triplicate Reading is detected. 8. Continued to use the ET system/database to automatically place pump stations under Incomplete Moratorium (IN) for failure to submit ET readings by the 14th of the following month. 9. Completed quarterly Utility Round Table (URT) Meetings to discuss/review compliance issues within the County. 10. Issued construction permits for the upgrade of multiple utility pump stations. 11. Issued Certification of Completion for the upgrade of multiple utility pump stations. 12. Completed reviews of the Sanitary Sewer Evaluation System, Phase 3, for all utilities. 13. Completed the development plan to upgrade the system/database to capture ET readings for ALL-PUMPS ON and Midnight-5 am hours for all pump stations with 26 HP and larger pumps.	1. Continue Monitoring and Tracking of monthly ET submittals. 2. Automatic and/or Manual placement in moratorium those pump stations that fail to submit ET readings or submit duplicate readings. 3. Continue generating monthly NAPOT & ALLOCATION reports and copy each corresponding Utility and Building Official, respectively. 4. Continue to use the ET system/database to automatically place pump stations under Incomplete Moratorium (IN) if a Triplicate Reading is detected. 5. Continue to use the ET system/database to automatically place pump stations under Incomplete Moratorium (IN) for failure to submit ET readings by the 14th of the following month. 6. Complete quarterly Utility Round Table (URT) Meetings to discuss/review compliance issues within the County. 7. Continue to use the system/database to capture ET readings for ALL-PUMPS ON and Midnight-5 am hours for all new or upgrade pump stations with 26 HP and larger pumps. 8. Continue to review Sanitary Sewer System Evaluations.

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

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
18(b)	Pump Station Remote Monitoring Program	The Pump Station Remote Monitoring Program is being implemented in accordance with Paragraph 18(b) of the CD. The continuing program involves the installation and operation of remote monitoring equipment in all Pump Stations in the Wastewater Collection and Transmission System (WCTS) within 6 months after the County becomes operationally responsible for Pump Station. The pump station monitoring system shall continuously monitor, report and transmit data.	Work on the program has been ongoing.	Work on the program is ongoing and will continue beyond June 30, 2018.
18(c)	Wastewater Collection and Transmission System Model	The WCTS model is being implemented in accordance with Paragraph 18(c) of the CD. The model assists in the development and implementation of CMOM programs to optimize transmission capacity and to evaluate the impact of I/I rehabilitation projects; proposed modifications, upgrades and expansions to the WCTS; and performance of the WCTS. The WCTS model can also be used to simulate the manifolded Force Mains and private Pump Stations which manifold into the County's Force Main system.	Completed additional hydraulic modeling for design validation for the following CD Projects: 5.17(2), 5.17(3), 5.18(1), 5.18 (2), 5.18 (3), 5.18(4), 5.18(5) and 5.18 (6). Required documentation for DERM/RER Permitting Process was provided by CD PMCM Team. The CD PMCM team performed Hydraulic modeling evaluation of operating conditions of the WASD WCTS during construction activities for the following CD projects: 4.05, 4.8, 4.10 and 5.03. The evaluations were documented in technical memorandums that were submitted to DERM/RER as part of the permitting process. Completed update of WCTS Hydraulic Model network geometry in order to match the current conditions of the system, these updates include latest information. Updates include the following: • Update Node and Flood Types • Update Ground Levels • Update Floodable Area • Update Solution Model Type • Update Pump Station Information	Complete additional hydraulic modeling for design validation for the following CD Projects: • CD 4.9 (48-53, 63) • CD 4.9 (34-43) • CD 4.9 (46) • CD 4.9 (60-62) • CD 4.9 (65) • CD 4.9 (28) Complete addition of Private Pump Stations (PPS) into the WCTS Hydraulic Model according to Paragraph 18(c)(ii) of the Consent Decree. This effort also includes the adjustment of model inflows for public pump stations to accommodate the additional flows associated with PPS. Maintain coordination with Ocean Outfall Legislation Projects for timely updating of projects into hydraulic model. Update WASD WCTS hydraulic model to Incorporate all model network modifications documented as a result of the calibration process. Complete inclusion of all gravity sewer network elements on Hydraulic Model. Finalize development of a tool that populates missing invert data and eliminates adverse slopes conditions in the gravity system before inclusion

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

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
18(c)	Wastewater Collection and Transmission System Model (continued)	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.	Incorporated latest version of all OOL Projects configuration in the corresponding planning horizon network for the WASD WCTS hydraulic model. Continued efforts to update hydraulic model with information available for CD Projects, Ocean Outfall Legislation Projects, Master Plan Projects, Pump Station Improvement Projects as well as New Development Projects in an effort to maintain the most up to date projection scenarios for years 2020, 2025 and 2035 in the Pump Model. Completed efforts associated with collection of required data for calibration of hydraulic model according to Paragraph 18(c)(iv). Some of tasks associated with this objective included: • Selection of Calibration Events • SCADA data compilation for comparison with model results. • Development of RTC for selected calibration events. Efforts continued related to additional updates to Private Pump Stations (PPS) into the WCTS Hydraulic Model according to Paragraph 18(c)(ii) of the Consent Decree.	in the model software. Continue efforts associated with second stage (Hydraulic) calibration runs to evaluate accuracy of simulations of discharge pressure and flow at booster pump stations and regional wet well stations throughout the system. Complete additional scenario runs based on modifications to all subnetworks for the hydraulic model, make adjustments to model network based on evaluation of model simulations results comparison with SCADA data through the implementation of calibration spreadsheets. Through the second and third quarter of FY2018, the CD PMCM team should achieve calibration results within calibration criteria standards system wide for both WWF and DWF simulations.

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

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
18(c)	Wastewater Collection and Transmission System Model (continued)	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.	This effort also includes the adjustment of model inflows for public pump stations to accommodate the additional flows associated with PPS. The update of PPS that manifold into the pressurized system includes the following breakdown: • Total of 476 PPS added systemwide • 179 PPS added with pump curve • 297 PPS added as direct inflow Continued inclusion of all gravity sewer network elements on Hydraulic Model. During this period, the CD PMCM team worked on the development of a tool that populates missing invert data and eliminates adverse slopes conditions. This tool processes the entire WASD gravity system before inclusion in the model software. The CD PMCM Team developed a calibration criteria document that outlines the standards that will be applied to for the calibration of the different networks elements and hydraulic variables of the WASD Sewer Hydraulic Model. The document was based on EPA WaPUG (Wastewater Planning Users Group) and previous experience by technical leads from the CD PMCM Team on hydraulic model calibration for wastewater collection systems.	

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

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
18(c)	Wastewater Collection and Transmission System Model (continued)	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.	This document was submitted to WASD Planning Division for review. The CD Hydraulic Modeling team continued efforts associated with second stage (Hydraulic) calibration runs to evaluate accuracy of simulations of discharge pressure and flow at booster pump stations and regional wet well stations throughout the system. The hydraulic modeling team completed additional scenario runs based on modifications to all subnetworks for the hydraulic model, adjustments to the network were made based on evaluation of previous model simulations results comparison with SCADA data through the implementation of calibration spreadsheets. Through the first quarter of FY2018, the CD PMCM team achieved calibration results within calibration criteria standards at the regional level for wet weather flow simulations. The regional calibration networks were re-ensembled to continue calibration considering systemwide interconnectivity.	

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

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
18(c)	Wastewater Collection and Transmission System Model (continued)	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.	The progress achieved on model calibration during FY2017 was documented in a report which included current calibration status for all system facilities, including Wastewater Treatment Plants (WWTP), regional wet well and booster stations as well as all terminal lift stations. The report also included the overall approach followed by the CD PMCM team in order to achieve calibration in a progression manner. All calibration results included in the report were associated with the calibration criteria document submitted previously to WASD Planning Division. The calibration status report for FY2017 was submitted to WASD Planning Division for review.	
18(d)	Spare Parts Program	The Spare Parts Program is being implemented in accordance with Paragraph 18(d) of the CD. This program is a continuing inventory management program for spare parts for the WCTS and WWTPs.	Work on the program has been ongoing.	The existing program will be enhanced as the new CMOM Programs are implemented. Work on the program is ongoing and will continue beyond June 30, 2018.

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

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
18(e)	Volume Sewer Customer Ordinance Program	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. Reviewed SSO reports from all VSCs. 2. Enforcement Actions or moratoriums were placed within the PS basin when required by Chapter 24, accordingly. 3. RER-DERM reminded all VSC about the submittal of the 2017 Electronic GIS Sanitary Sewer Atlas As-Built UPDATE due by 1/06/2018. 4. RER-DERM reviewed the Sanitary Sewer Evaluation Surveys from All Utilities. The outcome of the reviews were sent to all VSCs on August, 16,2017. 5. Moratoriums were placed on VSCs that were reported exceeding the 5,000 GPDIM Code standard for the Infiltration/Inflow. 6. Utilities responded to the RER-DERM Letter dated August, 16,2017. 7. RER-DERM held two (2) Utility Round Table (URT) meetings with All VSCs. 8. RER-DERM received the Illicit Stormwater Discharges report from all VSCs.	1. RER-DERM will complete the reviews of the Utilities' responses of the Sanitary Sewer Evaluation Surveys. 2. RER-DERM to complete review of Plan of Compliance for VSCs. 3. RER-DERM & WASD will continue testing the As-Built and Electronic Sanitary Sewer GIS Atlas submitted by VSCs. 4. RER-DERM will complete reviews of all Annual Reports submitted during the next two calendar quarters. 5. RER-DERM will place additional moratoriums to PS basins from the VSCs that cannot demonstrate compliance with the 5,000 GPDIM Code standard for the Infiltration/Inflow.

Table A-2.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
19(a)	Fats, Oils and Grease Control Program	The FOG Control Program is being implemented in accordance with Paragraph 19(a) of the CD. The Program allows the County to regulate industrial and commercial sources of fats, oils and grease (FOG). In addition, this 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 submitted to EPA and FDEP on June 5, 2015. On December 8, 2016, EPA, FDEP and the County met to discuss the FOG Program. EPA and FDEP sent out comments on the Program and Ordinance on December 22, 2016. Response to EPA and FDEP comments were submitted on May 1, 2017. The FOG Program and FOG Ordinance were approved by the EPA and FDEP on September 7, 2017. Work on the Program was ongoing. 1. Completed in-house training of the FOG Control Technicians. 2. Completed the "Did You Know" flyers. Flyers were distributed by DERM Plan Review, FOG Technicians/Inspectors, and Liquid Waste Transporters. 3. Completed the FOG Outreach Program, including workshops (e.g., FOG Round Table and Utility Round Table meetings). 4. Continued to receive monthly hauled waste disposal data from Pompano/Broward. 5. Completed the update of the FSE FOG Operating Permit (GDO) permit conditions, including eManifest reporting as optional with reduced paperwork - but mandatory starting January 2018. 6. Continued enforcement (and compliance assistance) with NGTs Food Service Establishments (FSE). 7. Continued / implemented the new Liquid Waste Transporter (LWT) permits conditions which	1. FOG Final Ordinance expected to be approved by BCC – March 2018. 2. Continue to receive monthly hauled waste disposal data from Pompano/Broward. 3. Update in-house training of the FOG Control Technicians/Inspectors, with focus on "Difficult/Upset Customers." 4. Update Inspection Manual – iFOG2.0. 5. Update FOG Control Device Manual – FCDFOG2.0. 6. Continue with the FOG Outreach Program, including flyers (e.g., "Did You Know"), workshops (e.g., FOG Round Table and Utility Round Table meetings) and professional engineer training class. 7. Implement new FSE FOG Operating Permit (GDO) permit conditions, including mandatory eManifest reporting starting January 2018. 8. Continue enforcement (and compliance assistance) with NGTs Food Service Establishments (FSE). 9. Implement monthly "NO COMINGLING of FOG" Spot-Checking at disposal facility (with FOG Inspectors issuing tickets for mixed loads). 10. Update Reporting capability of eManifest for system, including automatic emails. 11. Complete the development and implementation of the construction inspections for the FOG Control devices - March 2018.

Table A-2.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree				
Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
19(a) (Continued)	Fats, Oils and Grease Control Program	The FOG Control Program is being implemented in accordance with Paragraph 19(a) of the CD. The Program allows the County to regulate industrial and commercial sources of fats, oils and grease (FOG). In addition, this Program involved the review, evaluation and revision of the County's previous FOG Control Program.	basically referred to the no commingling of the waste and to the electronic reporting. 8. Continued / Implemented "NO COMMINGLING of FOG". 9. Continued / Implemented eManifest for LWTs. 10. The FOG Control Program and FOG Ordinance were approved by EPA/FDEP on September 7, 2017. 11. Final FOG Ordinance was sent to BCC in December 2017.	

Table A-2.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
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.	The Program document was finalized and submitted to the EPA/FDEP on July 2, 2015 ahead of the CD compliance date July 6, 2015. EPA and FDEP sent out comments on the Program on January 24, 2017. Response to EPA and FDEP comments on the SORP were submitted on March 28, 2017. The SORP was approved by the EPA and FDEP on August 15, 2017. Work on the program was ongoing. On August 15, 2017, EPA/FDEP sent comments on the Standard Operating Procedures for Calculating the Recovered SSO Volume. The letter was received by WASD on August 18, 2017. WASD submitted the Response to EPA/FDEP Comments on the Standard Operating Procedures for Calculating the Recovered SSO Volume on October 17, 2017. WASD continued the development of Consolidated SSO Database, and revised and completed SORP appendix E list of lowest manhole elevation each pump station basin. WASD initiated the SSO Volume Estimation Training for SSO Response Personnel on August 28, 2017, before the compliance date of September 1, 2017.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2018.

Table A-2.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
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.	The Program document was finalized and submitted to the EPA/FDEP on December 4, 2015 ahead of CD compliance date December 7, 2015. EPA and FDEP sent out comments on the Program on February 28, 2017. Response to EPA and FDEP comments on the IMS were submitted on May 17, 2017. The IMS program was approved by the EPA and FDEP on October 17, 2017. Work on the program was ongoing. To enhance Construction Contracts Management project close-out business practices, WASD has been working on the transition of their PCTS software from Proliance to e-Builder.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2018. WASD will continue to work towards the PCTS transition with an anticipated go live date of July 2018.
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. GIS to Hydraulic Model Interface. - Completed 2. Manhole rim and pipe inverts and their inclusion into GIS - Completed 3. Streamlining the manual as-built to GIS process to satisfy 90 day requirement - Completed 4. GIS to Hydraulic Model Integration to satisfy 90 day requirement from GIS to Model - Completed	Monthly updates to continue Remaining data not obtained in the field will be collected as an implementation activity to be added in the CMOM Consolidated Implementation Schedule The GIS integration of all projects conveyed and activated on June 6, 2017, are being tracked. The metrics will be reported in the 2017 Annual Report. The GIS integration of all projects conveyed and activated on June 6, 2017, are being tracked. The metrics will be reported in the 2017 Annual Report.

Table A-2.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
19(c)(x) (Continued)	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.	5. GIS Training Refresher Program - Training course, manual and online videos launched and continues to be offered by WASD HR several times a month. Completed	Classes continue to be offered on a monthly basis or for specific teams as requested
			6. Electronic As-Built Submittal -Contract and Donation as-builts being received electronically. Approval/rejection process also being tracked electronically.	Future enhancements, as necessary
			7. Completion of GIS Backlog - <u>GIS backlog has been completed.</u> Completed 193 Sewer projects: 24miles of pipe modified or added; 851 above ground assets modified or added. Completion of 146 Water projects: 61 miles of pipe modified or added; 3214 above ground assets modified or added.	No further action required
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.	The Program document was finalized and submitted to the EPA/FDEP on the CD compliance date October 6, 2015. EPA and FDEP sent out comments on the Program on January 24, 2017. Response to EPA and FDEP comments on the SSAMP were submitted on the CD compliance date of March 28, 2017. The SSAMP was approved by the EPA and FDEP on October 17, 2017. Work on the program was ongoing. WASD has brought on board a Consultant to assist them in developing a Department asset management framework.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2018.

Table A-2.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
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.	Program was pending EPA and FDEP approval. EPA and FDEP sent out comments on the Program on June 21, 2016. Response to EPA and FDEP comments on the GSSOMP were submitted on August 12, 2016. The GSSOMP was approved by the EPA and FDEP on October 17, 2017. Work on the program was ongoing. During the reporting period, WWCTLD has deployed approximately twenty more Smart Covers to "hot spots" to closely monitor and prevent SSOs.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2018.
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.	Program was pending EPA and FDEP approval. EPA and FDEP sent out comments on the Program on June 21, 2016. Response to EPA and FDEP comments on the PSOPMP were submitted on July 29, 2016. The PSOPMP was approved by the EPA and FDEP on October 17, 2017. Work on the Program was ongoing. WASD initiated Corrective Maintenance activities prioritized by schedulers and supervisors.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2018.

Table A-2.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
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.	The FMOPMAR Program document was finalized and submitted to the EPA/FDEP on the CD compliance date August 6, 2015. The FMRRP was finalized and submitted to the EPA/FDEP on December 4, 2015 ahead of the CD compliance date December 7, 2015. The FMOPMARP was approved by the EPA and FDEP on October 17, 2017.	Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2018.

Table A-2.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
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.	Program was pending EPA and FDEP approval. EPA and FDEP sent out comments on the program August 18, 2016. Response to EPA and FDEP comments on the WWTP OMP were submitted on November 21, 2016. On November 20, 2017, EPA/FDEP conditionally approved the WWTP OMP. WASD received the letter on November 27, 2017. On December 15, 2017, WASD requested an extension for the deadline for the response to EPA/FDEP comments on the WWTP Operations and Maintenance Program (OMP) and the submittal of the updated and approved WWTP OMP. The new compliance date will be January 29, 2018. Work on the program was ongoing. The Hauled Waste Program Training held by RER-DERM was conducted on March 28 and May 8, 2017 at the Overtown Village Building. Random Sampling and Analysis Program is in progress at the SD WWTP as part of the implementation of the Hauled Waste Program. The first random collection of hauled waste occurred on May 10, 2017 and continues 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. RER-DERM/WASD Coordination Meetings were held at SD WWTP to discuss Hauled Waste	The response to EPA/FDEP comments on the WWTP Operations and Maintenance Program (OMP) and the submittal of the updated and approved WWTP OMP will be submitted to EPA and FDEP on January 29, 2018. The response to EPA/FDEP comments on the Hauled Waste Program will be submitted to EPA and FDEP by February 13, 2018. Work on the Program will include the activities listed in the CMOM Implementation Schedule and will continue beyond June 30, 2018.

Table A-2.1 Continuation of CMOM Programs of the First Partial Consent Decree and the Second and Final Consent Decree

Paragraph	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
19(h) (Continued)	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.	Program and any issues or concerns related to illicit hauled waste or discharges to the plant or collection system. On October 31, 2017, RER-DERM submitted the Hauled Waste Guidance Manual to EPA/FDEP. WASD received comments on the program on December 15, 2017. Compliance date for the response is February 13, 2018.	
19(j)	Financial Analysis Program	The Financial Analysis Program is being implemented in accordance with Paragraph 19(j) of the CD. The purpose of this program is to effectively establish and track the sufficiency of funds for operations and maintenance, capital projects financing, and debt service coverage associated with the Sewer System, including, without limitation, the continued Work pursuant to the CD.	Program was pending EPA and FDEP approval. The County received EPA and FDEP comments on November 25, 2015. Response to EPA and FDEP comments on the FAP submitted on January 29, 2016. The FAP was approved by the EPA and FDEP on October 17, 2017. Work on the program was ongoing.	Work on the program will be ongoing and will continue beyond June 30, 2018.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
1.1	Headworks	The SDWWTP Headworks project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves routine repairs on existing bar screen mechanisms in headwork structure prior to aerated grit chambers. Failure of bar screen mechanism could result in the blinding of the bar screen and cause an overflow of raw sewage from the plant headworks structure towards nearby surface waters, especially during peak wet weather.	Procurement and construction continued.	Procurement will be completed. Rehab Grit #2 (Screens #1) will commence and be completed. Rehab Grit #1 (Screen #1) will commence.
1.2	Oxygen Production	The SDWWTP Oxygen Production project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace and retrofit existing air compression units.	Design, procurement and construction continued.	Design will be completed. Procurement and construction will continue.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
1.3	Oxygenation Trains	The SDWWTP Oxygen Trains project will be performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to retrofit aeration mixers and rehabilitate and apply surface coating to the structure. This project was split into three child projects; (1) for the structural rehab of the train, (2) for the electrical building expansions and (3) for the mixer upgrades.	Design for 1.3(1) Oxygenation Trains Structural Rehabilitation Trains 2, 3, 4, 5, 6, 7 was completed. Procurement for Train 6 Oxygenation tanks structural rehab commenced. Design continued for 1.3(2) Electrical Building Expansion. Design continued for 1.3(3) Oxygenation Trains Mixer Upgrades.	Procurement for 1.3(1) Train 6 Oxygenation tanks structural rehab will be completed and construction will commence and be completed. Design for 1.3(2) Electrical Building Expansion will continue. Design for 1.3(3) Oxygenation Trains Mixer Upgrades will continue.
1.4	Chlorine Building	The SDWWTP Chlorine Building project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves replacement of motor control centers, relocation of electrical panels and roof repairs of the old chlorine building where flushing water pumps are to remain.	Design Commenced.	Design will continue.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
1.5	Effluent Pump Station	The SDWWTP Effluent Pump Station project will be performed pursuant to Paragraph 19(i) and Appendix D. This project involves an upgrade of the existing obsolete pump control systems, upgrade of the pumps drives and motors, and structural rehabilitation of pump station wet well, i.e. chambers 2 through 4. This project has been split into three separate child projects: (1) structural rehabilitation of the effluent pump wet wells; (2) the building improvements and equipment for the remaining pumps respectively; (3) the electrical equipment associated with pumps 7,8 and 9.	1.5(1) Design of wet well #4 and wet wells #1-3 was completed. Procurement for wet wells #1 and #2 commenced. 1.5(2) Design continued. 1.5(3) Completed on Jan 23, 2016.	1.5(1) Procurement for wet wells #1 and #2 will be completed. Construction of wet wells #1 and #2 will commence and be completed. 1.5(2) Design will continue.
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.	Procurement will be completed and construction will commence.
1.7	Digesters and Control Buildings	The SDWWTP Digester and Control Buildings project will be performed pursuant to Paragraph 19(i) and Appendix D. The project involves the rehabilitation or replacement of digester roofs; digester tank cleaning, structural rehabilitation and coating, sludge mixers improvement. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstable sludge that will require landfill disposal.	Procurement commenced.	Procurement 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.	Procurement will be completed and construction will commence.

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
1.9	FOG Removal Facility	The SDWWTP FOG Removal Facility project is being performed pursuant to Paragraph 19(i) and Appendix D. The current FOG separation tank is not capable of adequately handling solids load, resulting in excess odors and unanticipated manual labor to remove large amounts of grit, settled soils and hardened grease. The purpose of this project is to improve separation operations to the recently constructed FOG removal facility. This will result in the conveyance of oils and floating grease to a beneficial use option process and the removal of excess grit and settled solids.	Construction continued.	Construction will be completed.
1.10	Odor Control	The SDWWTP Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to upgrade the odor control facilities.	In validation/planning stage.	Design 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 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) SDWWTP General Electrical In-House Construction. 2) Expand Switchgear A & B. 3) Replace Primary Feeders from Electrical Building 1 to Substation 8.	1.11(1) Design continued. 1.11(2) Design commenced. 1.11(3) Permitting commenced and was completed and procurement commenced.	1.11(1) Design will be completed, permitting and procurement will commence. Design will continue for 1.11(2). Procurement will continue for 1.11(3).

Table A-3.1 South District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
1.12	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	Construction for 1.12(1) Actuator Replacement continued. 1.12(2) Design for Contact Chambers Rehab 1-4 was completed. Procurement for Contact Chamber #1 Structural Rehab commenced and was completed. Construction for Contact Chamber #1 Structural Rehab, and Sluice Gates commenced.	Construction for 1.12(1) Actuator Replacement will be completed. 1.12(2) Construction for Contact Chamber #1 Structural Rehab, and Sluice Gates will be completed.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.1	Electrical Improvements	The CDWWTP Electrical Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed throughout the plant. This project schedule has been broken down into multiple components more accurately reflect the way the work is being executed: 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. 3) Substations 9 & 10 - This work is part of Project 2.10. 4) Substations 11 & 12 – This work is part of project 2.11. 5) Substations 15 & 16 – This work is part of Project 2.15. 6) Substations 17 & 18 – This work is part of Project 2.19. 7) Substations 7A, 8A, 9A & 10A	Note: The majority of this work will be done in conjunction with other CD projects. 2.1(1) Construction Sub-Stations 1 & 2 Completed on May 5, 2016. 2.1(2) Procurement continued. 2.1(3) Permitting continued and procurement commenced. 2.1(4) Permitting continued. 2.1(5) Construction continued. 2.1(6) Procurement was completed and construction commenced. 2.1(7) Design continued.	2.1(2) Procurement will be completed and construction will commence. 2.1(3) Permitting will be completed and procurement will continue. 2.1(4) Permitting will be completed and procurement will commence. 2.1(5) Construction will be completed. 2.1(6) Construction will continue. 2.1(7) Design will continue.
2.2	Building Improvements	The CDWWTP Building Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the repair of maintenance, operations control and administration buildings at the plant. It includes the repair of the roofs and the staff facility. This project 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.	2.2(1a) Completed on June 1, 2015. 2.2(1b) Construction continued. 2.2(1c) Completed on October 19, 2016. 2.2(2) Construction continued.	2.2(1b) Construction will be completed. 2.2(2) Construction will be completed.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.3	Headworks Plant 1	The CDWWTP Headworks/Grit Basin Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing screening facilities at the CDWWTP influent pump station are inefficient. This results in the accumulation of rags and plastics in plant processes which sometimes leads to pump, mixer and clarifier collection mechanism failure. This project involves the addition of influent screens and an electrical room with upgraded electrical instrumentation.	Construction continued.	Construction will be completed.
2.4	Headworks Plant 2	The CDWWTP Headworks/Grit Basin project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing screening facilities at the CDWWTP influent pump station are inefficient. This results in the accumulation of rags and plastics in plant processes which sometimes leads to pump, mixer and clarifier collection mechanism failure. This project involves the addition of influent screens and an electrical room with upgraded electrical instrumentation.	Construction continued.	Construction will continue.
2.5	Oxygenation Trains Plant 1	The CDWWTP Oxygenation Trains Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The project involves the retrofitting of the aeration mixers, structural rehabilitation and surface coating application. Mixer retrofits were completed in early 2014. Structural rehabilitation work for Train #2 and Train #3 will be performed by WASD in-house forces during the dry seasons.	Design was completed. Procurement and construction continued. Procurement for Structural Rehab Train #3 Oxygenation Trains Plant 1 commenced.	Procurement will be completed. Construction will commence and be completed. Procurement for Structural Rehab Train #3 Oxygenation Trains Plant 1 will be completed. Construction for Structural Rehab Train #3 Oxygenation Trains Plant 1 will commence and be completed.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.6	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.	Design was completed, procurement and construction continued. Design for Structural Rehab Trains #2 & #4 Oxygenation Trains Plant 2 was completed. Procurement for Structural Rehab Train #2 Oxygenation Trains Plant 2 commenced. Construction for Electrical Equipment / Expand Structure continued.	Procurement and construction will continue. Procurement for Structural Rehab Train #2 Oxygenation Trains Plant 2 will be completed. Construction for Electrical Equipment / Expand Structure will be completed
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. 2) Secondary Clarifiers plant 1 Train Mechanisms. 3) Secondary Clarifiers Plant 1 Structural Rehab.	Design, procurement and construction will continue. Design continued for 2.7(1) Secondary Clarifiers Plant 1. Design commenced for 2.7(3) Trains 1-6 - CD Secondary Clarifiers Plant 1 Structural Rehab. Procurement for Trains 1 Secondary Clarifiers Structural Rehab	Design, procurement and construction will continue . Design will continue for 2.7(1) Secondary Clarifiers Plant 1. Design will be completed for 2.7(3) Trains 1-6 - CD Secondary Clarifiers Plant 1 Structural Rehab. Procurement for Train 1 Secondary Clarifiers Structural Rehab will commence.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.8	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) Secondary Clarifiers Plant 2, 2) Secondary Clarifiers Plant 2 Train Mechanisms, and 3) Secondary Clarifiers Plant 2 Structural Rehab.	Design and permitting continued. Procurement commenced. 2.8(1) Permitting continued and procurement commenced. Design for 2.8(3) Trains 1-10 CD Secondary Clarifiers commenced.	Permitting will be completed. Design and procurement will continue. Permitting will be completed for 2.8(1) and procurement will continue. 2.8(3) Design of Secondary Clarifiers Plant 2 Structural Rehab will be completed. Procurement Trains #1 & #2 Secondary Clarifiers Structural Rehab will commence.
2.9	RS Pump Stations Plant 1	The CDWWTP RS Pump Stations Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations. Work on this project will be performed in conjunction with Project 2.7.	Design continued.	Design will continue.
2.10	RS Pump Stations Plant 2	The CDWWTP RS Pump Stations Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of return sludge pump, piping, motor control centers and structural repairs to the pump stations. This project has been split into 2 separate child projects: 1) Return Sludge PS Plant 2 - RAS Pump, 2) Return Sludge PS Plant 2 - RAS Line	2.10(1) Permitting and procurement continued. 2.10(2) Construction of RAS Header Pipe was completed on July 7, 2017.	2.10(1) Permitting will be completed and procurement 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 in the effluent pump station.	Permitting continued and procurement commenced.	Permitting will be completed and procurement will continue.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.12	Sludge Thickeners Plant 1	The CDWWTP Sludge Thickeners Plant 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the thickened sludge pumps, sanitary sewer pumps, HVAC and electrical systems in the concentrator pump station. The objective of this project is to provide a combined Thickening and Dewatering facility under one common building. The existing sludge concentrators will be abandoned and a centrifuge thickening system will be utilized. This project will be performed in conjunction with projects 2.13 and 2.16 under a design-build delivery method.	Procurement continued.	Procurement will be completed. 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.	Procurement will be completed. 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.	Construction continued. Construction continued for 2.14(2) Digesters Plant 1 cluster 2 covers demolition.	Design will commence. Construction will continue. Design will commence for 2.14(1) Digesters Plant 1 Cluster 1. Construction will be completed for 2.14(2) Digesters Plant 1 Cluster 2 covers demolition.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.15	Digesters Plant 2	The CDWWTP Digesters Plant 2 project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the complete rehabilitation of sludge digester clusters, i.e. roofs, concrete structures, recirculation and transfer pumps, mixers, and electrical pumps. This will prevent the loss of digestion capacity and the decline in biogas/methane production for power generation. In addition, it will decrease the amount of unstable sludge that will require landfill disposal. This project has been split into 4 different child projects; 2.15(1) refers to digesters in cluster 1 and 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) Cluster 1: Construction continued. 2.15(2) Cluster 2: Permitting was completed and procurement commenced. 2.15(3) Cluster 3: Design continued. 2.15(4) Cluster 4: Design continued.	2.15(1) Cluster 1: Construction will be completed. 2.15(2) Cluster 2: Procurement will continue. 2.15(3) Cluster 3: Design will be completed and permitting will commence. 2.15(4) Cluster 4: Design will continue.
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.	Procurement will be completed and 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.	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 Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.18	Odor Control Systems	The CDWWTP Cogeneration Facility Improvements project is being performed pursuant to Paragraph 19(i) and Appendix D. This involves the replacement of the motor control center of the odor control buildings including air-conditioned electrical rooms. It also involves replacement of odor control chemical pumps, piping, valves and gas stripping tower media. 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).	Procurement and construction continued. 2.18(1) Headworks Odor Controls System (Project 2.3/2.4) construction continued. 2.18(2) Dewatering Odor Control System (Project 2.16) procurement continued.	Procurement will be completed and construction will continue. 2.18(1) Headworks Odor Controls System (Project 2.3/2.4) construction will continue. 2.18(2) Dewatering Odor Control System (Project 2.16) procurement will be completed and construction will commence.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.19	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) Co-Gen Generator Replacement completed on January 27, 2016. Procurement for 2.19(2a) was completed and construction commenced. Permitting for 2.19(2b) was completed and procurement continued.	Construction for 2.19(2a) will continue. Procurement for 2.19(2b) will be completed and construction will commence.
2.20	Septage Uploading	The CDWWTP Septage Unloading project is required under Paragraph 19(i) and Appendix D. The CD scope of this project included the construction of a new septage handling station to remove FOG from the main wastewater treatment stream and treat either through digestion or an off-site third part facility. However, the violation associated with this project was resolved by requiring all hauled waste to be sent to the South District WWTP as of January 2013.	Motion to delete Project 2.20 Septage Uploading at CD WWTP has been approved by the Court on December 28, 2016.	N/A
2.21	Pump Station 1	The CDWWTP Pump Station No. 1 project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to rehabilitate the pump station for the odor control system and rehabilitate the bar screen mechanisms.	Design, permitting, procurement and construction continued.	Design will be completed. Permitting, procurement and construction will continue.

Table A-3.2 Central District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.22	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) WASD In House HVAC Improvements. 2) Headworks HVAC Improvements (Project 2.3/2.4) 3) Digester Control Building HVAC Improvements (Project 2.15) 4) Pump Station 1 HVAC Improvements (Project 2.21) 5) Pumps Station 2 HVAC Improvements (Project 2.22)	2.25(2) Construction continued. 2.25(3) Construction continued. 2.25(4) Permitting continued and procurement commenced. 2.25(5) Construction continued.	2.25(2) Construction will be completed. 2.25(3) Construction will be completed. 2.25(4) Permitting will be completed and procurement will continue. 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.
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. Procurement continued for 2.27(2).	Procurement for 2.27(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 Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
2.28	SCADA RTU Upgrades	The CDWWTP Building Improvements project was performed pursuant to Paragraph 19(i) and Appendix D. The old radio communication system was obsolete and it was difficult to procure parts. The purpose of the project was to upgrade the SCADA remote telemetry units to maintain operational sustainability.	This project was completed as of February 10, 2014 ahead of the CD compliance date March 29, 2014.	N/A
2.29	High Strength Influent Impact Study	The CDWWTP High Strength Influent Impact Study was performed pursuant to Paragraph 19(i) and Appendix D. The CDWWTP was experiencing an increase in TSS and BOD loading. This study investigated the sources and conceptualized solutions to eliminate or mitigate the change in plant influent characteristics.	Completed. Work started February 2013 and was completed June 5, 2014 ahead of the CD compliance date June 24, 2014.	N/A

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
3.1	Headworks and Sludge Degritting Transfer	The NDWWTP Headworks and Sludge Degritting and Transfer project is being performed pursuant to Paragraph 19(i) and Appendix D. This project is a 2 Phase approach to improve the existing screening facilities at the NDWWTP. In Phase 1, bar screens are replaced with perforated plate screens and Phase 2 involves the upgrade of the pretreatment buildings for fire code compliance and replacement of primary sludge grit separation equipment.	Construction was completed on December 6, 2017 ahead of the CD compliance date April 7, 2018.	N/A
3.2	Primary Clarifiers and Odor Control	The NDWWTP Primary Clarifiers and Odor Control project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structures of the primary clarifiers. 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).	Procurement was completed for 3.2(1) and construction commenced. Permitting was completed for 3.2(2) and procurement commenced.	3.2(1) Construction will continue. 3.2(2) Procurement 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 and procurement continued.	Design and procurement will continue. Construction will commence. Cleaning of Tank #5 Oxygenation Trains will commence and be completed.
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 commenced.	Design will continue.

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
3.5	Secondary Clarifiers	The NDWWTP Secondary Clarifiers project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of the structure of the secondary clarifiers and its mechanical and electrical systems. This project was split into 2 child projects: 3.5(1) Replace Mechanisms # 1-10; and 3.5(2) Remaining Scope of Work.	3.5(1) Construction of Secondary Clarifiers (Replace Mechanisms #1, 2, 4, 5, 7, 9, and 10 was completed on March 30, 2017 3.5(2) Permitting was completed and procurement continued.	3.5(2) Procurement will continue.
3.6	Disinfection	The NDWWTP Disinfection project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the replacement of the chlorine gas storage, liquid chlorination and dosing system with bulk sodium hypochlorite storage and dosing system in the existing chlorine building.	Permitting continued and procurement commenced..	Permitting will be completed, and procurement will continue.
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 OO Pump Station rehabilitation was completed in March 2015. Construction of DIW Pump Station Mechanical continued.	Construction of DIW Pump Station Mechanical will be completed.

Table A-3.3 North District WWTP Capital Improvement Projects

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
3.8	Plant Wide Electrical	The NDWWTP Plant Wide Electrical project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation and replacement of electrical controls and wiring as needed at the NDWWTP. This project schedule has been broken down into multiple child/sub projects to better reflect the way the work is being executed: 1) NDWWTP General Electrical In House Construction Feeders 1 and 2 have been replaced. 2) Electrical Feeders 3-6 Feeders 3-6 will be replaced in conjunction with Project 3.1. 3) Electrical Feeders 7-8 Feeders 7 and 8 will be replaced along with Project 3.4. 4) Electrical Feeders 9-14	Design, permitting, procurement, and construction continued. 3.8(1) General Electrical In-house construction (Feeders 1-2) was completed on January 15, 2016. 3.8(2) Electrical Feeders 3-6 (Project 3.1) was completed on December 6, 2017.	Design, permitting, procurement, and construction will continue.
3.9	Flood Mitigation	The NDWWTP Flood Mitigation project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to mitigate the flood potential in the Generator and Electrical Building at the NDWWTP.	This project was completed on June 24, 2016, ahead of the CD compliance date of August 13, 2017.	N/A
3.10	Yard Piping Replacement	The NDWWTP Yard Piping Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace the wastewater piping that interconnects unit processes throughout the plant.	Project was completed on May 24, 2016, ahead of the CD compliance date of December 4, 2021.	N/A
3.11	SCADA RTU Upgrades	The NDWWTP SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units to maintain operational sustainability.	Project was completed on November 26, 2014, ahead of the CD compliance date March 24, 2015.	N/A

Table A-4.1 Wastewater Collection and Transmission Lines

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
4.1	Collection System I/I Repairs	The Collection System I/I Repairs project is being performed in accordance with Paragraph 19(i) and Appendix D of the CD. The project targets defective gravity sewers with excessive inflow/infiltration. It involves rehabilitation of the Collection System, i.e. dig & replace mainlines and laterals, manhole replacement, cured-in-place liners and sectional liners and will be performed concurrently with other work.	Work on this project is ongoing.	Work on this project will continue.
4.2	Government Cut FM Phase 1 & 2	The Government Cut FM Phases 1 & 2 project was performed in accordance with Paragraph 19(i) and Appendix D. The purpose of this two phase project is to replace critically damaged sections of 54-inch force main to avert catastrophic failures in Government Cut. This project involved the replacement of 54 inch FM with 60 inch FM from the water shaft in Government Cut to mainland Miami Beach.	Project was completed on the CD compliance date of September 30, 2013.	N/A
4.3	Government Cut FM Phase 3	The Government Cut FM Phases 3 project is being performed in accordance with Paragraph 19(i) and Appendix D. The Government Cut FM Phase 3 (Norris Cut Utility Relocation Project) is comprised of the following; the existing 54" force main underneath Norris Cut between Fisher Island and the Central District Wastewater Treatment Plant (CDWWTP), on Virginia Key, will be replaced with a new 60" force main lowered to elevation minus (-) 67.50 feet mean sea level. A new 8" force main will be constructed from Pump Station 170, on Fisher Island, connecting to the new 60" force main near the tunnel receiving shaft. The 60" pipeline alignment will be constructed via segmental tunnel trenchless technology, and open cut trenching method. The 8" pipeline alignment will be constructed via horizontal directional drilling (HDD) trenchless methodology.	Project was completed on November 23, 2016, ahead of the CD compliance date of April 8, 2017.	N/A
4.4	North Dade 72 inch PCCP FM Rehabilitation	This North Dade Force Main Rehabilitation project is being performed in accordance with Paragraph 19(i) and Appendix D. The project replaces a damaged section of 72-inch force main that has experienced catastrophic failure. The rehabilitation involves 3.5 miles of 72 inch PCCP FM located between NW 17 Avenue and NE 10 Avenue in North Dade.	Construction was substantially completed on May 5, 2016 ahead of the CD compliance date of March 5, 2018.	N/A

Table A-4.1 Wastewater Collection and Transmission Lines

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
4.5	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. Current Status: This project has been split into two (2) separate child projects: Phase 1) which includes approximately four (4) miles of a new 54" pipe from SW 127 Ave/SW 280 St. to SW 107 Ave/SW 248 St. and Phase 2) for the rehabilitation of the existing 2.5 miles line, from SW 280 St/ 112th Ave. - 248th St./107 Ave., which will be completed after the new line is in service and will be used for future redundancy.	Construction continued.	Construction will be completed. Construction will be completed for 4.5(1). Design for 4.5(2) (Non-Consent Decree) will commence and be completed. Permitting will commence.
4.6	Replacement of Tamiami Canal Aerial Crossing FMs at NW 37th Avenue	This Tamiami Force Main Replacement project is being performed in accordance with Paragraph 19(i) and Appendix D. 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 substantially completed on May 27, 2014 ahead of the CD compliance date of October 29, 2016.	N/A
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 substantially completed on December 7, 2015 ahead of the CD compliance date of April 9, 2017.	N/A

Table A-4.1 Wastewater Collection and Transmission Lines

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
4.8	Rehabilitation of 54 inch PCCP FM in the City of Miami	This City of Miami Force Main Rehabilitation project is being performed pursuant to Paragraph 19(i) and Appendix D. A section of 54-inch force main in the City of Miami is deteriorated and has experienced failures. The project involves the rehabilitation of 2 miles of 54 inch PCCP FM by cured-in-place liner located on NW 2 Street between NW 67 Avenue and NW 37 Avenue in the City of Miami. This project has been split into two separate child projects. The first (4.8.1) includes the two miles of PCCP pipe rehabilitation as stipulated in the Consent Decree scope. The second child project (4.8.2) includes the remaining two miles of pipe rehab or replacement necessary to ensure the long term integrity of this force main segment. This is a Non-Consent Decree child project. Both sections will utilize a performance specification delivery method for trenchless technology.	Construction of 4.8(1) was completed on June 16, 2017.	Construction for 4.8(2) (Non-Consent Decree) will commence.
4.9	Replace Approximately 30 miles of AC FM Transmission System	This Force Main Transmission System Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. The purpose of this project is to replace asbestos cement force mains that have experienced failures and are difficult to locate in the field. This includes approximately 30 miles of AC FM transmission system. This project has been divided into multiple sub/child projects. See individual status of each project in Table A-4.2.	Design, permitting, procurement and construction continued.	Design, permitting, procurement and construction will continue.

Table A-4.1 Wastewater Collection and Transmission Lines

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
4.10	Opa-Locka Airport FM Replacement	The Opa-Locka Airport PCCP Force Main Replacement project is being performed pursuant to Paragraph 19(i) and Appendix D. This project involves the rehabilitation of 2.5 miles of 48" PCCP force main running along the Biscayne Canal between NW 57th Avenue & NW 32nd Avenue. The length has been determined to have approximately one quarter of its line segments distressed based on in-situ condition assessments. This project 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. 3) Includes 1,550 LF of 16" DIP FM along NW 159th Street between NW 57th Ave and NW 54th Ave. This is a Non-Consent Decree Project. 4) Includes the Opa-Locka Airport Concessions Project. This is a Non-Consent Decree Project.	4.10(1) Construction was completed on October 27, 2017. 4.10(2) Construction continued. 4.10(3) (Non-Consent Decree) Procurement was completed and construction continued. 4.10(4) (Non-Consent Decree) Design continued.	4.10(2) Construction will be completed. 4.10(3) (Non-Consent Decree) Construction will be completed. 4.10(4) (Non-Consent Decree) Design will continue.

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
1	12	SW 112 Ave. & SW 104 St.	SW 112 Ave. & SW 112 St.	Design commenced.	Design will continue.
2	8	NE 14 Ave. & 191 St.	NE 14 Ave. & Miami Gardens Dr.	Construction for this project was completed on October 25, 2016.	N/A
3	6	PS 356	NW 53 Ct. & NW 195 Dr.	This project was completed on August 11, 2014.	N/A
4	8	NW 53 Ct. & NW 195 Dr.	NW 52 Ct. & NW 191 Dr.	This project was completed on August 11, 2014.	N/A
5	10	NW 52 Ct. & NW 191 St.	NW 52 Ct. & NW 188 Dr.	This project was completed on August 11, 2014.	N/A
6	6	PS 362	NW 52 Ct. & NW 190 Dr.	This project was completed on August 18, 2017.	N/A
7	10	NW 52 Ct. & NW 190 St.	NW 52 Ave. & NW 189 Ter.	This project was completed on August 18, 2017.	N/A
8	10	NW 52 Ct. & NW 188 St.	NW 52 Ave. & NW 183 St.	This project was completed on August 11, 2014.	N/A
9	8	PS 385	NW 29 Ct. & NW 199 St.	This project was completed on August 7, 2015.	N/A
10	12	NW 29 Ct. & NW 199 St.	NW 30 Pl. & NW 199 St.	This project was completed on August 7, 2015.	N/A
11	8	NW 29 Ct. & NW 199 St.	NW 28 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
12	6	PS 374	NW 28 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
13	12	NW 30 Pl. & NW 199 St.	NW 37 Ave. & NW 199 St.	This project was completed on August 7, 2015.	N/A
14	8	PS 368	NW 37 Ave. & NW 194 Ter.	This project was completed on June 3, 2015.	N/A
15	4	PS 375	NW 29 Pl. and NW 191 St.	This project was completed on June 3, 2015.	N/A
16	10	PS 427	NW 29 Pl. and NW 191 St.	This project was completed on June 3, 2015.	N/A
17	10	NW 29 Pl. and NW 191 St.	NW 32 Ave. & NW 191 St.	This project was completed on June 3, 2015.	N/A

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
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	Procurement was completed.	Construction will commence.
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 completed on November 20, 2015.	N/A
28	8	PS 786	MH 5 @ PS 785	Design commenced.	Design will continue.
29	12	PS 811	SW 107 Ave. & SW 76 St.	Procurement was completed.	Construction will commence.
30	12	PS 811	SW 102 Ave. & SW 81 St.	Procurement was completed.	Construction will commence.
31	10	PS 812	SW 102 Ave. & SW 84 St.	Procurement was completed.	Construction will commence.
32	12	SW 107 Ave. & SW 104 St.	SW 107 Ave. & Kendale Blvd.	This project was completed on October 13, 2017.	N/A
33	4	Pvt. PS @ 114 Ave. & SW 169 St.	MH 59 @ SW 103 Ave.	This project was completed on August 12, 2016.	N/A
34	10	PS 709	Homestead Ave. & Kumquat St.	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
35	6	SW 110 Ave. & Banyan St.	SW 95 Ave. & SW Banyan St.	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.
36	4	PS 721	US1 & Banyan St.	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.
37	4	PS 749	PS 731	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.
38	4	PS 747	US1 & East Indigo St.	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.
39	10	SW 102 Ave. & SW 176 St.	Homestead Ave. & West Jessamine	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.
40	8	PS 745	SW 102 Ave. & SW 175 St.	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.
41	4	PS 731	SW Duval Ave. & West Indigo St.	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.
42	10	SW 102 Ave. & West Jessamine	US1 & SW 184 St.	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
43	12	Homestead Ave. & 180 St.	Railroad St. & SW 184 St.	Design and permitting continued.	Design and permitting will be completed. Procurement will commence.
44	8	PS 810	SW 118 Pl. & SW 72 St.	Design commenced.	Design will continue.
45	12	PS 793	SW 118 Pl. & SW 72 St.	Design commenced.	Design will continue.
46	6	PS 724	SW 106 Ave. & SW 155 St.	Design and permitting continued. Procurement commenced.	Design and permitting will be completed. Procurement will continue.
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.	Design was completed. Permitting and procurement commenced.	Permitting will be completed. Procurement will continue.
49	10	PS 1029	SW 132 Ave. & 268 St.	Design was completed. Permitting and procurement commenced.	Permitting will be completed. Procurement will continue.
50	8	SW 137 Ave. & SW 268 St.	SW 128 Ave. & 268 St.	Design was completed. Permitting and procurement commenced.	Permitting will be completed. Procurement will continue.
51	10	PS 1028	SW 137 Ave. & 288 St.	Design was completed. Permitting and procurement commenced.	Permitting will be completed. Procurement will continue.
52	10	PS 1027	SW 132 Ave. & 280 St.	Design was completed. Permitting and procurement commenced.	Permitting will be completed. Procurement will continue.
53	8	PS 1018	MH 44A @ SW 132 Ave.	Design was completed. Permitting and procurement commenced.	Permitting will be completed. Procurement will continue.
54	12	SW 137 Ave. & SW 72 St.	SW 142 Ave. & SW 72 St.	Design commenced.	Design will continue.
55	12	SW 142 Ave. & SW 72 St.	SW 147 Ave. & SW 72 St.	Design commenced.	Design will continue.
56	8	PS 864	SW 147 Ave. & SW 72 St.	Design commenced.	Design will continue.
57	8	SW 142 Ave. & Kendale Lakes Blvd.	SW 140 Ave. & Kendale Lakes Blvd.	Design commenced.	Design will continue.

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

Line Number	Diameter	From Location	To Location	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
58	10	SW 140 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & Kendale Lakes Blvd.	Design commenced.	Design will continue.
59	12	SW 137 Ave. & Kendale Lakes Blvd.	SW 137 Ave. & SW 81 St.	Design commenced.	Design will continue.
60	8	PS 1013	PS 1012	Design continued.	Design will be completed and permitting will commence.
61	10	PS 1012	SW 144 Ave. & SW 280 St.	Design continued.	Design will be completed and permitting will commence.
62	8	PS 1011	SW 144 Ct. & SW 280 St.	Design continued.	Design will be completed and permitting will commence.
63	10	SW 147 Ave. & SW 288 St.	SW 134 Pl. & SW 288 St.	Design was completed. Permitting and procurement commenced.	Permitting will be completed. Procurement will continue.
64	6	PS 1009	SW 147 Ave. & SW 296 St.	Design commenced.	Design will continue.
65	6	PS 1006	PS 1005	Design continued.	Design will be completed and permitting will commence.
66	8	PS 1002	SW 152 & SW 304 St.	Design continued and permitting commenced.	Design and permitting will be completed. Procurement will commence and be completed. Construction will commence.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.1	Upgrade of PS No. 0418	The Upgrade of PS No. 0418 project is being performed pursuant to Paragraph 19(i) and Appendix D. The station has reached the end of its useful life and a booster station is needed to relieve pressures in the Doral area. The purpose of this project is to convert PS No. 0418 into a booster type station.	Construction continued.	Construction will continue.
5.2	Upgrade of PS No. 0691	The Upgrade of PS No. 0691 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0691.	Construction continued.	Construction will be completed.
5.3	Upgrade of PS No. 0692	The Upgrade of PS No. 0692 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and capacity increase is required to handle increased Homestead flows. This project involves the replacement of pumping and electrical equipment in PS No. 0692.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
5.4	Replacement of Switchgear PS No. 0414	The Replacement of Switchgear PS No. 0414 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing pump station equipment has reached the end of its useful life and a booster station is needed to relieve the pressures and reroute flow away from PS 1310 and PS 0300. The purpose of this project is to convert PS 0414 into a booster type station and rehabilitate and replace the entire facility equipment (pumps, motors, electrical equipment, HVAC, valves, and piping).	Procurement was completed. Construction commenced.	Construction will continue.
5.5	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0415 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing pump station equipment has reached the end of its useful life and the wet well structure is badly deteriorated due to H ₂ S. This project involves the rehabilitation and replacement of the entire facility equipment (pumps, motors, electrical equipment, HVAC, odor control, valves, piping and wet well) in PS 0415.	Procurement was completed. Construction commenced.	Construction will continue.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.6	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.	Procurement was completed. Construction commenced.	Construction continued.
5.7	Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0417	The Replacement of Switchgear and Rehabilitation of Wet Well PS No. 0417 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment of the PS is beyond its useful life and the wet well structure is badly deteriorated due to H ₂ S. This project involves the rehabilitation and replacement of the entire facility equipment (pumps, motors, electrical equipment, HVAC, odor control, valves, piping and wet well) in PS 0417.	Permitting was completed. Procurement continued.	Procurement will be completed. Construction will commence.
5.8	Replacement of Electrical and Mechanical Equipment PS No. 0107	The Replacement of Electrical and Mechanical Equipment PS No. 0107 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond of the PS is beyond its useful life and parts are not readily available for the load cell type controllers. This project involves the replacement of pumping and electrical equipment of PS No. 0107.	Construction continued.	Construction will be completed.
5.9	Replacement of Pumping and Electrical Equipment PS No. 0301	The Replacement of Pumping and Electrical Equipment PS No. 0301 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing pump station equipment has reached the end of its useful life and a new pump station is needed to address future capacity needs, sea level rise and storm surge. Phase 1 of the project involves the replacement of the pumps, electrical equipment and generators, in addition to rehabilitation of the HVAC equipment of PS 0301. Phase 2 will include the construction of a new submersible pump station.	Design, permitting, and procurement continued.	Design will be completed. Permitting and procurement will continue.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.10	Upgrade of PS No. 0488	The Upgrade of PS No. 0488 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing equipment is beyond its useful life. This project involves the conversion of the PS a submersible type station.	This project was completed on December 8, 2016 ahead of the CD compliance date of May 9, 2018.	N/A
5.11	Installation of 60 inch FM from Kendall Dr. to PS No. 0536	Currently, there is a pressure differential and increase flow transfer between PS #0559 and PS #0536. The purpose of this project was originally to install a 60" FM from Kendall Dr. to PS #0536 to eliminate the 42" reduction in the 60" 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.	Procurement was completed. Construction commenced.	Construction will be completed.
5.12	Replacement of Switchgear PS No. 0187	The Replacement of Switchgear PS No. 0187 project is being performed pursuant to Paragraph 19(i) and Appendix D. The existing PS equipment is beyond its useful life and parts are not readily available. This project involves the demolition of the four (4) existing 450 hp pumps (3 two-speed, and 1 with Anvic Drive) and the installation of four (4) new 450 hp pumps and motors, with new VFDs, replacement of electrical switchgear, HVAC and lighting upgrades, expansion of Electrical Room, generator upgrades, and replacement of plug valves and control valves.	Procurement was completed. Construction continued.	Construction will be completed.
5.13	Refurbish Emergency Generators and Controls at Regional PSs	The Refurbish Emergency Generators and Controls at regional PSs project is being performed pursuant to Paragraph 19(i) and Appendix D. The emergency backup generators are unreliable due to the age of the controllers and the condition of the wiring on the engines. The purpose of this project is to refurbish emergency generators and controls at regional PSs.	Construction was completed on February 4, 2016, ahead of the CD compliance date of July 20, 2016.	N/A

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.14	Upgrade of PSS Nos. 0086 and 0492	The Upgrade of Pump Stations No. 0086 and 0492 project was performed and completed pursuant to Paragraph 19(i) and Appendix D. The project was designed to increase reliability and extend the service life of the pump station. The pump stations also exceeded the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. For this project, Pump Station No. 0086 was converted to a submersible type pump station with an existing wet well and the electrical controls and instrumentation were upgraded. The electrical controls and instrumentation for Pump Station No. 0492 were upgraded. It was also rehabilitated to a new submersible type pump station.	Construction was completed on July 15, 2013, ahead of the CD compliance date of December 31, 2013.	N/A

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.15	Upgrade of PSs Nos. 0065, 0201, 0334, 0374, 0607	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

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.16	Upgrade of PSs Nos.0198, 0437, 0466, 0680	The Upgrade of PSs No. 0198, 0437, 0466, 0680 project is being performed pursuant to Paragraph 19(i) and Appendix D. These pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS #0198 is being upgraded to include new submersible pumps in a new triplex wet well, an electrical upgrade and flow isolation. PS #0437 is being upgraded to include new dry pit submersible pumps, replacement of roughly 100 linear feet of 10" force main to the street connection, and electrical upgrades. PS#0466 is being upgraded to include refurbishment of the existing wet well and repairs to pipes and valves. PS #0680 is being upgraded to include new submersible pumps, new valve box, electrical upgrades and a new generator with sub-base tank. This project has been divided into four (4) child projects. With the following current statuses: 1) Pump Station No. 0198 Compliance Project. The CD Compliance deadline of December 31, 2016 was not achieved. The PMCM and WASD are working with the Contractor to try and complete the remaining work. 2) Pump Station No. 0437 Upgrade 3) Pump Station No. 0466 Compliance Project 4) Pump Station No. 0680 Upgrade	5.16(1) PS#0198: Construction continued. 5.16(2) PS#0437: Construction was completed on December 15, 2016 ahead of CD Compliance date of December 31, 2016. 5.16(3) PS#0466: Construction was completed on October 21, 2016 ahead of CD Compliance date of December 31, 2016. 5.16(4) PS#0680: Construction was completed on December 1, 2016 ahead of CD Compliance date of December 31, 2016.	5.16(1) PS#0198 Construction will be completed.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.17	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	Construction continued. 5.17(1) PS#0037: Construction was completed on November 14, 2017. 5.17(2) PS#0351: Construction continued. 5.17(3) PS#0370: Construction continued. 5.17(4) PS#0403: Construction continued.	Construction will be completed. 5.17(2) PS#0351: Construction will be completed. 5.17(3) PS#0370: Construction will be completed. 5.17(4) PS#0403: Construction will be completed.

Table A-5.1 Sewer Pump Station Systems

Project Number	Project Name	Project Description	Actions Completed During Previous Two Calendar Quarters	Anticipated Actions to Be Performed in the Next Two Calendar Quarters
5.18	Upgrade of PSs Nos. 0441, 0491, 0710, 0827, 0852, 1236	The Upgrade of PSs No. 0441, 0491, 0710, 0827, 0852, 1236 project is being performed pursuant to Paragraph 19(i) and Appendix D. The pump stations exceed the Adequate Transmission Capacity Criteria with a NAPOT of greater than 10 hours. The PS No. 0441 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 0491 is undergoing flow isolation and I/I repairs if necessary. The PS No. 710 project involves the conversion to a new submersible type pump station, an electrical upgrade and the installation of 1,800 L.F. of new 8 inch FM. The PS No. 0827 is being upgraded to include larger submersible pumps, installation of a new valve vault, an electrical upgrade and the replacement of 1,600 L.F. of 4 inch FM with 8 inch FM. The PS No. 0852 project involves the conversion to a new submersible type pump station and an electrical upgrade. PS No. 1236 is undergoing 300 I/I repairs to achieve a flow of 130 gpm. This project is split into six (6) different sub/child projects. 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.	5.18(1) Design was completed. Permitting commenced. 5.18(3) Design was completed. Permitting commenced. 5.18(4) Design was completed. Permitting commenced. 5.18(5) Design was completed. Permitting commenced. 5.18(6) Design commenced.	5.18(1) Permitting will be completed. Procurement will commence and be completed. Construction will commence. 5.18(2) Construction will commence. 5.18(3) Permitting will be completed. Procurement will commence and be completed. Construction will commence. 5.18(4) Permitting will be completed. Procurement will commence and be completed. Construction will commence. 5.18(5) Permitting will be completed. Procurement will commence and be completed. Construction will commence. 5.18(6) Design will be completed. Permitting will commence.
5.19	SCADA RTU Upgrades	The SCADA RTU Upgrades project is being performed pursuant to Paragraph 19(i) and Appendix D. The current radio communication system is obsolete and it is difficult to procure parts. The purpose of the project is to upgrade the SCADA remote telemetry units for 635 pump stations to maintain operational sustainability.	Construction was completed on November 23, 2015 ahead of the CD compliance date March 18, 2016.	N/A

WASD Consent Decree Schedule - December 2017 Update					Standard Layout w Baseline (By Phase)																15-Jan-18 13:30 - Page No. 1 of 77																	
Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
WASD Consent Decree Schedule - December 2017 Update					6387	12-Dec-10 A	06-Jun-28																															
0. General Compliance Activities					5480	06-Jun-13 A	06-Jun-28																															
Program Milestones					5480	06-Jun-13 A	06-Jun-28																															
General Compliance Activity					5480	06-Jun-13 A	06-Jun-28																															
MC10000 Date of Lodging (DOL)					0	06-Jun-13 A																																
MC10010 Effective Date - 6 months from DOL					0	06-Dec-13 A																																
MC10030 Date of Entry (DOE)					0	09-Apr-14 A																																
MC10020 CIP Completion Milestone - 15 Years from DOL					0		06-Jun-28*																															
Reporting Requirements					1797	31-Mar-14 A	01-Mar-19																															
Quarterly Reports					1768	31-Mar-14 A	31-Jan-19																															
General Compliance Activity					1768	31-Mar-14 A	31-Jan-19																															
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*	31-Jan-18																															
PM50260 2018 Quarterly Report No 1					31	31-Mar-18*	30-Apr-18																															
PM50270 2018 Quarterly Report No 2					31	30-Jun-18*	30-Jul-18																															
PM50280 2018 Quarterly Report No 3					31	30-Sep-18*	30-Oct-18																															
PM50290 2018 Quarterly Report No 4					32	31-Dec-18*	31-Jan-19																															
Semi Annual Reports					1677	30-Jun-14 A	31-Jan-19																															
General Compliance Activity					1677	30-Jun-14 A	31-Jan-19																															
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*	31-Jan-18																															
PM50320 2018 Semi Annual Report No 1					32	30-Jun-18*	31-Jul-18																															
PM50330 2018 Semi Annual Report No 2					32	31-Dec-18*	31-Jan-19																															
Annual Report					1522	31-Dec-14 A	01-Mar-19																															
General Compliance Activity					1522	31-Dec-14 A	01-Mar-19																															
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	01-Mar-18*																															
PM50350 2018 Annual Report					61	31-Dec-18	01-Mar-19*																															
Program Management/Construction Management Support					3549	06-Jun-14 A	22-Feb-24																															
General Compliance Activity					3549	06-Jun-14 A	22-Feb-24																															
PM50000 Program Management/Construction Management					3549	06-Jun-14 A	22-Feb-24																															
1. South District WWTP					4381	19-Nov-13 A	16-Nov-25																															
1.01 Headworks					1848	02-Feb-15 A	23-Feb-20																															
Engineering Design					449	02-Feb-15 A	26-Apr-16 A																															
SD10100 Engineering Design - SD Headworks					26	02-Feb-15 A	27-Feb-15 A																															
SD42920 EPA Start Date for Engineering Design - SD Headworks					0	01-Oct-15 A																																
SD41910 EPA Compliance Date for Engineering Design - SD Headworks					0		26-Apr-16 A																															
Permitting					814	02-Feb-15 A	26-Apr-17 A																															

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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	Check...	Approved
14-Jul-14	Revision 0	GSR	DH
13-Oct-17	September 2017 Update		
15-Nov-17	October 2017 Update		
15-Dec-17	November 2017 Update		
15-Jan-18	December 2017 Update		

** EPA Interim Milestone Date was missed

WASD Consent Decree Schedule - December 2017 Update			Standard Layout w Baseline (By Phase)										15-Jan-18 13:30 - Page No. 11 of 77																									
Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
SD43360	EPA Start Date for Engineering Design - SD Chlorine Contact Chamber	0	01-Aug-16 A																																			
SD10150	Engineering Design - SD Chlorine Contact Chamber	657	01-Oct-15 A	18-Jul-17 A																																		
SD42380	EPA Compliance Date for Engineering Design - SD Chlorine Contact Chamber	0		30-Sep-19*																																		
Permitting		921	01-Oct-15 A	08-Apr-18																																		
SD10200	Permitting - SD Chlorine Contact Chamber	30	01-Oct-15 A	30-Oct-15 A																																		
SD43370	EPA Start Date for Permitting - SD Chlorine Contact Chamber	0	09-Apr-17 A																																			
SD42390	EPA Compliance Date for Permitting - SD Chlorine Contact Chamber	0		08-Apr-18*																																		
Procurement		1910	24-Aug-15 A	14-Nov-20																																		
SD43380	EPA Start Date for Procurement - SD Chlorine Contact Chamber	0	09-Apr-18*																																			
SD42400	EPA Compliance Date for Procurement - SD Chlorine Contact Chamber	0		08-Apr-19*																																		
SD10290	Procurement - SD Chlorine Contact Chamber	1910	24-Aug-15 A	14-Nov-20																																		
Construction		1992	05-Jan-16 A	18-Jun-21																																		
SD43390	EPA Start Date for Construction - SD Chlorine Contact Chamber	0	09-Apr-19*																																			
SD10370	Construction - SD Chlorine Contact Chamber Struct. Rehab	1686	05-Jan-16 A	27-Feb-21																																		
SD10530	Substantial Completion (CD Compliance Date 6/18/21) - SD Chlorine Contact Chamber	0		27-Feb-21*																																		
SD42410	EPA Compliance Date for Construction - SD Chlorine Contact Chamber	0		18-Jun-21*																																		
Project Administration		1872	01-Oct-15 A	28-May-21																																		
SD35130	WASD Project Administration - SD Chlorine Contact Chamber	1872	01-Oct-15 A	28-May-21																																		
1.12 (1) Chlorine Contact Chamber Actuator Replacement			830	24-Aug-15 A	31-Jan-18																																	
Engineering Design		29	01-Oct-15 A	30-Oct-15 A																																		
SD41900	Engineering Design - Actuators Technical Data	30	01-Oct-15 A	30-Oct-15 A																																		
Permitting		29	01-Oct-15 A	30-Oct-15 A																																		
SD43410	Permitting - Actuators	30	01-Oct-15 A	30-Oct-15 A																																		
Procurement		133	24-Aug-15 A	04-Jan-16 A																																		
SD41600	Procurement - Actuators	134	24-Aug-15 A	04-Jan-16 A																																		
Construction		696	05-Jan-16 A	31-Jan-18																																		
SD41630	Construction - Actuators (inc. Electrical)	696	05-Jan-16 A	31-Jan-18																																		
Project Administration		792	01-Oct-15 A	31-Jan-18																																		

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Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
	CD40770	Construction Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements	660	20-Jul-17 A	10-May-19																					Construction Substations 17 & 18 (2.19) - CD Misc. Elect.Improvements - 10-May-19, Project Administration												
	Project Administration		1437	04-Jun-15 A	10-May-19																					WASD Project Administration - 17 & 18 (2.19) - CD Misc. Elect.Improvements - 14-Jun-20, 2.01 (7) Substations 7A, 8A, 9A, & 10A												
	CD85080	WASD Project Administration - 17 & 18 (2.19) - CD Misc. Elect.Improvements	1437	04-Jun-15 A	10-May-19																					WASD Project Administration - 17 & 18 (2.19) - CD Misc. Elect.Improvements - 14-Jun-20, 2.01 (7) Substations 7A, 8A, 9A, & 10A												
	2.01 (7) Substations 7A, 8A, 9A, & 10A		1041	17-Oct-16 A	14-Jun-20																					16-May-18, Pre-Design												
	Pre-Design		229	17-Oct-16 A	16-May-18																					Pre-Design (TM) - CD Misc. Elect.Improvements - 14-Aug-18, Engineering Design												
	CD85410	Pre-Design (TM) - CD Misc. Elect.Improvements	97	17-Oct-16 A	09-Aug-17 A																					Pre-Design (Remaining Scope of Work) - CD Misc. Elect.Improvements - 12-Nov-18, Permitting												
	CD85420	Pre-Design (Remaining Scope of Work) - CD Misc. Elect.Improvements	150	23-Dec-17 A	16-May-18																					Permitting Substations 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements - 11-May-19, Procurement												
	Engineering Design		371	09-Aug-17 A	14-Aug-18																					Procurement Substations 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements - 14-Jun-20, Construction												
	CD85430	Draft Technical Memo Submittal (Substations 7A, 8A, 9A, & 10A) - CD Misc. Elect.Improvements	97	09-Aug-17 A	27-Nov-17 A																					Construction Substations 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements - 14-Jun-20, Project Administration												
	CD85440	Final Technical Memo Submittal (Substations 7A, 8A, 9A, & 10A) - CD Misc. Elect.Improvements	30	28-Nov-17 A	22-Dec-17 A																					WASD Project Administration - 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements												
	CD85450	60% Design Submittal (Substations 7A, 8A, 9A, & 10A) - CD Misc. Elect.Improvements	30	17-May-18	15-Jun-18																																	
	CD85460	60% Design Review (Substations 7A, 8A, 9A, & 10A) - CD Misc. Elect.Improvements	15	16-Jun-18	30-Jun-18																																	
	CD85470	100% Design Submittal (Substations 7A, 8A, 9A, & 10A) - CD Misc. Elect.Improvements	30	01-Jul-18	30-Jul-18																																	
	CD40840	Engineering Design Substations 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements	180	09-Aug-17 A	14-Aug-18																																	
	CD85480	100% Design Review/Permit Ready Submittal (Substations 7A, 8A, 9A, & 10A) - CD Misc. Elect.Improvements	15	31-Jul-18	14-Aug-18																																	
	Permitting		90	15-Aug-18	12-Nov-18																																	
	CD40920	Permitting Substations 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements	90	15-Aug-18	12-Nov-18																																	
	Procurement		180	13-Nov-18	11-May-19																																	
	CD41000	Procurement Substations 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements	180	13-Nov-18	11-May-19																																	
	Construction		400	12-May-19	14-Jun-20																																	
	CD40720	Construction Substations 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements	400	12-May-19	14-Jun-20																																	
	Project Administration		850	09-Aug-17 A	14-Jun-20																					WASD Project Administration - 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements												
	CD85090	WASD Project Administration - 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements	850	09-Aug-17 A	14-Jun-20																					WASD Project Administration - 7A, 8A, 9A, & 10A - CD Misc. Elect.Improvements												
	2.02 Building Improvements		1521	26-Mar-14 A	24-May-18																					05-May-16 A, Engineering Design												
	Engineering Design		771	26-Mar-14 A	05-May-16 A																					CD Repairs to Various Buildings**												
	CD82380	EPA Start Date for Engineering Design - CD Repairs to Various Buildings**	0	01-May-14 A																						Engineering Design - CD Repairs to Various Buildings**												
	CD42460	EPA Compliance Date for Engineering Design - CD Repairs to Various Buildings**	0		18-Oct-14 A																					Engineering Design - CD Repairs to Various Buildings												
	CD10130	Engineering Design - CD Repairs to Various Buildings	772	26-Mar-14 A	05-May-16 A																					27-Aug-16 A, Permitting												
	Permitting		684	13-Oct-14 A	27-Aug-16 A																					CD Repairs to Various Buildings												
	CD82390	EPA Start Date for Permitting - CD Repairs to Various Buildings	0	19-Oct-14 A																						Permitting - CD Repairs to Various Buildings												
	CD10290	Permitting - CD Repairs to Various Buildings	620	13-Oct-14 A	23-Jun-16 A																					EPA Compliance Date for Permitting - CD Repairs to Various Buildings												
	CD80310	EPA Compliance Date for Permitting - CD Repairs to Various Buildings	0		27-Aug-16 A																					31-Jan-17 A, Procurement												
	Procurement		973	03-Jun-14 A	31-Jan-17 A																					EPA Start Date for Procurement - CD Repairs to Various Buildings												
	CD82400	EPA Start Date for Procurement - CD Repairs to Various Buildings	0	19-Oct-15 A																						Procurement - CD Repairs to Various Buildings												
	CD10530	Procurement - CD Repairs to Various Buildings	933	03-Jun-14 A	21-Dec-16 A																					EPA Compliance Date for Procurement - CD Repairs to Various Buildings												
	CD80320	EPA Compliance Date for Procurement - CD Repairs to Various Buildings	0		31-Jan-17 A																					25-Mar-18, Construction												
	Construction		1257	16-Oct-14 A	25-Mar-18																					EPA Start Date for Construction - CD Repairs to Various Buildings												
	CD82410	EPA Start Date for Construction - CD Repairs to Various Buildings	0	18-Oct-16 A																						EPA Compliance Date for Construction - CD Repairs to Various Buildings												
	CD80330	EPA Compliance Date for Construction - CD Repairs to Various Buildings	0		06-Sep-17 A																					Construction - CD Repairs to Various Buildings												
	CD10740	Construction - CD Repairs to Various Buildings	1162	16-Oct-14 A	25-Mar-18																					Substantial Completion (CD Compliance Date 9/06/17) - CD Repairs to Various Buildings												
	CD10910	Substantial Completion (CD Compliance Date 9/06/17) - CD Repairs to Various Buildings	0		25-Mar-18*																					2.02 (1)a CD Building Improvements - Admin Asbestos Abatement												
	2.02 (1)a CD Building Improvements - Admin Asbestos Abatement		432	26-Mar-14 A	01-Jun-15 A																					Engineering Design												
	Engineering Design		198	26-Mar-14 A	10-Oct-14 A																					Admin Asbestos Abatement												
	CD11002	Engineering Design - CD Admin Asbestos Abatement	199	26-Mar-14 A	10-Oct-14 A																					Permitting - CD Admin Asbestos Abatement												
	Permitting		79	13-Oct-14 A	31-Dec-14 A																					Phase 1) - CD Admin Asbestos Abatement												
	CD11012	Permitting - CD Admin Asbestos Abatement	80	13-Oct-14 A	31-Dec-14 A																					Admin Asbestos Abatement												
	Procurement		256	03-Jun-14 A	14-Feb-15 A																					Asbestos Abatement (Phase 2) - CD Admin Asbestos Abatement												
	CD21720	Bid & Award Asbestos Abatement (Phase 1) - CD Admin Asbestos Abatement	64	03-Jun-14 A	05-Aug-14 A																					Construction												
	CD84270	Procurement - CD Admin Asbestos Abatement	257	03-Jun-14 A	14-Feb-15 A																					Phase 1) - CD Admin Asbestos Abatement												
	CD30000	Bid & Award Asbestos Abatement (Phase 2) - CD Admin Asbestos Abatement	62	15-Dec-14 A	14-Feb-15 A																					CD Admin Asbestos Abatement												
	Construction		228	16-Oct-14 A	01-Jun-15 A																					Asbestos Abatement (Phase 2) - CD Admin Asbestos Abatement												
	CD21170	Asbestos Abatement (Phase 1) - CD Admin Asbestos Abatement	60	16-Oct-14 A	14-Dec-14 A																					Construction												
	CD84280	Construction - CD Admin Asbestos Abatement	229	16-Oct-14 A	01-Jun-15 A																					Phase 1) - CD Admin Asbestos Abatement												
	CD30010	Asbestos Abatement (Phase 2) - CD Admin Asbestos Abatement	39	24-Apr-15 A	01-Jun-15 A																					CD Admin Asbestos Abatement												
	Project Administration		432	26-Mar-14 A	01-Jun-15 A																					Asbestos Abatement (Phase 2) - CD Admin Asbestos Abatement												
	CD85100	WASD Project Administration - CD Admin Asbestos Abatement	433	26-Mar-14 A	01-Jun-15 A																					Project Administration												
	2.02 (1)b CD Administration Building Interior Improvements		1422	26-Mar-14 A	14-Feb-18																					14-Feb-18, 2.02 (1)b CD Administration Building Interior Improvements												
	Engineering Design		66	26-Jan-15 A	02-Apr-15 A																					Engineering Design (Remodel) - CD Administration Interior Improvements												
	CD11004	Engineering Design (Remodel) - CD Administration Interior Improvements	67	26-Jan-15 A	02-Apr-15 A																					10-Oct-15 A, Permitting												
	Permitting		195	02-Apr-15 A	14-Oct-15 A																					Permitting (Remodel) - CD Administration Building Interior Improvements												
	CD11014	Permitting (Remodel) - CD Administration Building Interior Improvements	196	02-Apr-15 A	14-Oct-15 A																					23-Nov-16 A, Procurement												
	Procurement		387	02-Nov-15 A	23-Nov-16 A																					Design Documents Sent to Procurement - CD Administration Building Interior Improvements												
	CD30860	Design Documents Sent to Procurement - CD Administration Building Interior Improvements	0	02-Nov-15 A																						Submit/Approve SBD Goals and Request to Advertise - CD Administration Building Interior Improvements												
	CD30870	Submit/Approve SBD Goals and Request to Advertise - CD Administration Building Interior Improvements	95	02-Nov-15 A	04-Feb-16 A																					Advertise Bid Package - CD Administration Building Interior Improvements												
	CD30880	Advertise Bid Package - CD Administration Building Interior Improvements	0	04-Mar-16 A																						Bid Solicitation Period - CD Administration Building Interior Improvements												
	CD30890	Bid Solicitation Period - CD Administration Building Interior Improvements	120	05-Mar-16 A	02-Jul-16 A																					Bids Due - CD Administration Building Interior Improvements												
	CD30900	Bids Due - CD Administration Building Interior Improvements	0	03-Jul-16 A																						Bid Review Period - CD Administration Building Interior Improvements												
	CD30910	Bid Review Period - CD Administration Building Interior Improvements	47	03-Jul-16 A	18-Aug-16 A																					Rebid Solicitation Period - CD Administration Building Interior Improvements												
	CD80340	Rebid Solicitation Period - CD Administration Building Interior Improvements	34	19-Aug-16 A	21-Sep-16 A																					Rebids Due - CD Administration Building Interior Improvements												
	CD80350	Rebids Due - CD Administration Building Interior Improvements	0	22-Sep-16 A																																		

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Activity ID	Activity Name		Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
	CD80360	Rebid Review Period - CD Administration Building Interior Improvements	27	22-Sep-16 A	18-Oct-16 A																																		
	CD30920	Award Recommendation - CD Administration Building Interior Improvements	0		18-Oct-16 A																																		
	CD11022	Procurement - CD Administration Building Interior Improvements	388	02-Nov-15 A	23-Nov-16 A																																		
	CD30930	Final Approvals - CD Administration Building Interior Improvements	36	19-Oct-16 A	23-Nov-16 A																																		
	Construction		420	22-Dec-16 A	14-Feb-18																																		
	CD11031	Contractor Notice to Proceed (NTP) - CD Administration Building Interior Improvements	0	22-Dec-16 A																																			
	CD11032	Construction (Remodel) - CD Administration Building Interior Improvements	331	22-Dec-16 A	15-Jan-18																																		
	CD11042	Substantial Completion (CD Compliance Date 9/06/17) - CD Administration Building Interior Improvements	0		15-Jan-18*																																		
	CD40010	Project Closeout - CD Administration Building	30	16-Jan-18	14-Feb-18*																																		
	Project Administration		1363	26-Mar-14 A	14-Feb-18																																		
	CD33940	WASD Project Administration - CD Administration Building	1363	26-Mar-14 A	14-Feb-18																																		
	2.02 (1)c CD Misc. Roof Improvements		627	31-Jan-15 A	19-Oct-16 A																																		
	Procurement		478	31-Jan-15 A	23-May-16 A																																		
	CD30070	Procurement - CD Misc. Roof Repairs	479	31-Jan-15 A	23-May-16 A																																		
	Construction		557	11-Apr-15 A	19-Oct-16 A																																		
	CD30020	Switchgear Building Roof Repairs - CD Misc. Roof Repairs	47	11-Apr-15 A	27-May-15 A																																		
	CD33670	Construction - CD Misc. Roof Repairs	558	11-Apr-15 A	19-Oct-16 A																																		
	CD30030	Maintenance Building Roof Repairs - CD Misc. Roof Repairs	150	23-May-16 A	19-Oct-16 A																																		
	CD30040	Operation & Control Building Roof Repairs - CD Misc. Roof Repairs	150	23-May-16 A	19-Oct-16 A																																		
	Project Administration		627	31-Jan-15 A	19-Oct-16 A																																		
	CD85110	WASD Project Administration - CD Misc. Roof Repairs	628	31-Jan-15 A	19-Oct-16 A																																		
	2.02 (2) Remodel Bathrooms, Locker Rooms & Showers		1253	19-Dec-14 A	24-May-18																																		
	Pre-Design		176	19-Dec-14 A	13-Jun-15 A																																		
	CD11242	Pre-Design - CD Misc. Building Improvements	177	19-Dec-14 A	13-Jun-15 A																																		
	Engineering Design		327	13-Jun-15 A	05-May-16 A																																		
	CD32480	Engineering Design Phase I - CD Misc. Building Improvements	44	14-Jun-15 A	27-Jul-15 A																																		
	CD11104	Negotiate Phase II Design - CD Misc. Building Improvements	51	27-Jul-15 A	15-Sep-15 A																																		
	CD32490	Engineering Design Phase II - CD Misc. Building Improvements	98	16-Sep-15 A	22-Dec-15 A																																		
	CD11102	Engineering Design (Summary) - CD Misc. Building Improvements	328	13-Jun-15 A	05-May-16 A																																		
	Permitting		49	05-May-16 A	23-Jun-16 A																																		
	CD11112	Permitting - CD Misc. Building Improvements	50	05-May-16 A	23-Jun-16 A																																		
	CD80380	COM Permit - CD Misc. Building Improvements	49	06-May-16 A	23-Jun-16 A																																		
	CD80370	RER DERM Permit - CD Misc. Building Improvements	15	09-Jun-16 A	23-Jun-16 A																																		
	Procurement		196	23-Jun-16 A	05-Jan-17 A																																		
	CD30340	Design Documents Sent to Procurement - CD Misc. Building Improvements	0	22-Aug-16 A																																			
	CD30350	Submit/Approve SBD Goals and Request to Advertise - CD Misc. Building Improvements	7	22-Aug-16 A	28-Aug-16 A																																		
	CD30360	Advertise Bid Package - CD Misc. Building Improvements	0	29-Aug-16 A																																			
	CD30370	Bid Solicitation Period - CD Misc. Building Improvements	51	29-Aug-16 A	18-Oct-16 A																																		
	CD																																						

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Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
CD30530	Submit/Approve SBD Goals and Request to Advertise - CD Headworks/Grit Basin Plant 2	96	28-Mar-16 A	01-Jul-16 A	Submit/Approve SBD Goals and Request to Advertise - CD Headworks/Grit Basin Plant 2																																	
CD30540	Advertise Bid Package - CD Headworks/Grit Basin Plant 2	0	02-Jul-16 A		Advertise Bid Package - CD Headworks/Grit Basin Plant 2																																	
CD30550	Bid Solicitation Period - CD Headworks/Grit Basin Plant 2	17	02-Jul-16 A	18-Jul-16 A	Bid Solicitation Period - CD Headworks/Grit Basin Plant 2																																	
CD30560	Bids Due - CD Headworks/Grit Basin Plant 2	0	19-Jul-16 A		Bids Due - CD Headworks/Grit Basin Plant 2																																	
CD30570	Bid Review Period - CD Headworks/Grit Basin Plant 2	14	19-Jul-16 A	01-Aug-16 A	Bid Review Period - CD Headworks/Grit Basin Plant 2																																	
CD30580	Award Recommendation - CD Headworks/Grit Basin Plant 2	0		01-Aug-16 A	Award Recommendation - CD Headworks/Grit Basin Plant 2																																	
CD30590	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Headworks/Grit Basin Plant 2	7	02-Aug-16 A	08-Aug-16 A	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Headworks/Grit Basin Plant 2																																	
CD10210	Procurement - CD Headworks/Grit Basin Plant 2	176	07-Mar-16 A	29-Aug-16 A	Procurement - CD Headworks/Grit Basin Plant 2																																	
CD82230	P.O. Issued - CD Headworks/Grit Basin Plant 2	0		29-Aug-16 A	P.O. Issued - CD Headworks/Grit Basin Plant 2																																	
CD31321	Pre-Purchase Bid Package (RTUs) - CD Headworks/Grit Basin Plant 2	28	21-Oct-16 A	17-Nov-16 A	Pre-Purchase Bid Package (RTUs) - CD Headworks/Grit Basin Plant 2																																	
CD31351	Vendor Bid & Award (RTUs) - CD Headworks/Grit Basin Plant 2	88	18-Nov-16 A	13-Feb-17 A	Vendor Bid & Award (RTUs) - CD Headworks/Grit Basin Plant 2																																	
CD31391	Vendor NTP (RTUs) - CD Headworks/Grit Basin Plant 2	0		13-Feb-17 A	Vendor NTP (RTUs) - CD Headworks/Grit Basin Plant 2																																	
CD81870	EPA Compliance Date for Procurement - CD Headworks/Grit Basin Plant 2	0		02-Mar-17 A	EPA Compliance Date for Procurement - CD Headworks/Grit Basin Plant 2																																	
CD30100	Owner Pre-purchase Screening Equipment - CD Headworks/Grit Basin Plant 2	658	17-Jun-15 A	04-Apr-17 A	Owner Pre-purchase Screening Equipment - CD Headworks/Grit Basin Plant 2																																	
CD31441	Fabricate & Deliver Screening Equipment - CD Headworks/Grit Basin Plant 2	432	29-Jan-16 A	04-Apr-17 A	Fabricate & Deliver Screening Equipment - CD Headworks/Grit Basin Plant 2																																	
CD32550	Owner Pre-purchase RTU's - CD Headworks/Grit Basin Plant 2	300	21-Oct-16 A	16-Aug-17 A	Owner Pre-purchase RTU's - CD Headworks/Grit Basin Plant 2																																	
CD31401	Fabricate & Deliver RTUs - CD Headworks/Grit Basin Plant 2	184	14-Feb-17 A	16-Aug-17 A	Fabricate & Deliver RTUs - CD Headworks/Grit Basin Plant 2																																	
Construction		1175	08-Dec-15 A	24-Feb-19	Construction - CD Headworks/Grit Basin Plant 2																																	
CD40310	Installation of Manhole and Clean out of 84" Pipe - CD Headworks/Grit Basin Plant 2	156	08-Dec-15 A	11-May-16 A	Installation of Manhole and Clean out of 84" Pipe - CD Headworks/Grit Basin Plant 2																																	
CD10448	Contractor Notice to Proceed (NTP) - CD Headworks/Grit Basin Plant 2	0	30-Aug-16 A		Contractor Notice to Proceed (NTP) - CD Headworks/Grit Basin Plant 2																																	
CD82490	EPA Start Date for Construction - CD Headworks/Grit Basin Plant 2	0	03-Mar-17 A		EPA Start Date for Construction - CD Headworks/Grit Basin Plant 2																																	
CD81880	EPA Compliance Date for Construction - CD Headworks/Grit Basin Plant 2	0		22-May-18*	EPA Compliance Date for Construction - CD Headworks/Grit Basin Plant 2																																	
CD40800	Construction (Remaining Scope) - CD Headworks/Grit Basin Plant 2	560	30-Aug-16 A	26-Nov-18	Construction (Remaining Scope) - CD Headworks/Grit Basin Plant 2																																	
CD10450	Construction - CD Headworks/Grit Basin Plant 2	560	30-Aug-16 A	26-Nov-18	Construction - CD Headworks/Grit Basin Plant 2																																	
CD10750	Substantial Completion (CD Compliance Date 5/22/18) - CD Headworks/Grit Basin Plant 2	0		26-Nov-18*	Substantial Completion (CD Compliance Date 5/22/18) - CD Headworks/Grit Basin Plant 2																																	
CD40040	Project Closeout - CD Headworks/Grit Basin Plant 2	90	27-Nov-18	24-Feb-19*	Project Closeout - CD Headworks/Grit Basin Plant 2																																	
Project Administration		1295	24-Nov-14 A	24-Feb-19	Project Administration - CD Headworks/Grit Basin Plant 2																																	
CD33970	WASD Project Administration - CD Headworks/Grit Basin Plant 2	1295	24-Nov-14 A	24-Feb-19	WASD Project Administration - CD Headworks/Grit Basin Plant 2																																	
2.05 Oxygenation Trains Plant 1		2709	01-Mar-11 A	30-Jul-18	2.05 Oxygenation Trains Plant 1																																	
Pre-Design		230	05-Jul-16 A	20-Feb-17 A	Pre-Design - CD Oxygenation Trains Plant 1																																	
CD81230	Pre-Design - CD Oxygenation Trains Plant 1	231	05-Jul-16 A	20-Feb-17 A	Pre-Design - CD Oxygenation Trains Plant 1																																	
Engineering Design		2356	01-Mar-11 A	12-Aug-17 A	Engineering Design - CD Oxygenation Trains Plant 1																																	
CD80260	Engineering Design (Mixers) - CD Oxygenation Trains Plant 1	63	01-Mar-11 A	02-May-11 A	Engineering Design (Mixers) - CD Oxygenation Trains Plant 1																																	
CD84540	EPA Start Date for Engineering Design - CD Oxygenation Trains Plant 1	0	01-Jun-14 A		EPA Start Date for Engineering Design - CD Oxygenation Trains Plant 1																																	
CD80470	EPA Compliance Date for Engineering Design - CD Oxygenation Trains Plant 1**	0		02-Sep-14 A	EPA Compliance Date for Engineering Design - CD Oxygenation Trains Plant 1**																																	
CD10150	Engineering Design - CD Oxygenation Trains Plant 1	2357	01-Mar-11 A	12-Aug-17 A	Engineering Design - CD Oxygenation Trains Plant 1																																	
CD80280	Engineering Design (Structural Rehab Train #3) - CD Oxygenation Trains Plant 1	173	21-Feb-17 A	12-Aug-17 A	Engineering Design (Structural Rehab Train #3) - CD Oxygenation Trains Plant 1																																	
Permitting		1647	01-Mar-11 A	02-Sep-15 A	Permitting - CD Oxygenation Trains Plant 1																																	
CD10240	Permitting - CD Oxygenation Trains Plant 1	63	01-Mar-11 A	02-May-11 A	Permitting - CD Oxygenation Trains Plant 1																																	
CD84550	EPA Start Date for Permitting - CD Oxygenation Trains Plant 1	0	03-Sep-14 A		EPA Start Date for Permitting - CD Oxygenation Trains Plant 1																																	
CD80480	EPA Compliance Date for Permitting - CD Oxygenation Trains Plant 1	0		02-Sep-15 A	EPA Compliance Date for Permitting - CD Oxygenation Trains Plant 1																																	
Procurement		2434	03-May-11 A	16-Jan-18	Procurement - CD Oxygenation Trains Plant 1																																	
CD80270	Procurement (Mixers) - CD Oxygenation Trains Plant 1	147	03-May-11 A	26-Sep-11 A	Procurement (Mixers) - CD Oxygenation Trains Plant 1																																	
CD81250	Procurement (Structural Rehab Train #2) - CD Oxygenation Trains Plant 1	88	17-Jan-17 A	14-Apr-17 A	Procurement (Structural Rehab Train #2) - CD Oxygenation Trains Plant 1																																	
CD80490	EPA Compliance Date for Procurement - CD Oxygenation Trains Plant 1	0		14-Dec-17 A	EPA Compliance Date for Procurement - CD Oxygenation Trains Plant 1																																	
CD10490	Procurement - CD Oxygenation Trains Plant 1	2388	03-May-11 A	16-Jan-18	Procurement - CD Oxygenation Trains Plant 1																																	
CD80290	Procurement (Structural Rehab Train #3) - CD Oxygenation Trains Plant 1	93	14-Aug-17 A	16-Jan-18	Procurement (Structural Rehab Train #3) - CD Oxygenation Trains Plant 1																																	
Construction		1702	02-Dec-13 A	30-Jul-18	Construction - CD Oxygenation Trains Plant 1																																	
CD12151	Installation of Mixers Trains #2 & 3 - CD Oxygenation Trains Plant 1	81	02-Dec-13 A	20-Feb-14 A	Installation of Mixers Trains #2 & 3 - CD Oxygenation Trains Plant 1																																	
CD10720	Structural Rehab Train #2 - CD Oxygenation Trains Plant 1	90	15-Jan-17 A	14-Apr-17 A	Structural Rehab Train #2 - CD Oxygenation Trains Plant 1																																	
CD80500	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 1	0		15-Apr-18*	EPA Compliance Date for Construction - CD Oxygenation Trains Plant 1																																	
CD32560	Construction - CD Oxygenation Trains Plant 1	1549	02-Dec-13 A	01-May-18	Construction - CD Oxygenation Trains Plant 1																																	
CD10940	Structural Rehab Train #3 - CD Oxygenation Trains Plant 1	105	17-Jan-18	01-May-18	Structural Rehab Train #3 - CD Oxygenation Trains Plant 1																																	
CD11050	Substantial Completion (CD Compliance Date 4/15/18) - CD Oxygenation Trains Plant 1	0		01-May-18*	Substantial Completion (CD Compliance Date 4/15/18) - CD Oxygenation Trains Plant 1																																	
CD81890	Project Closeout - CD Oxygenation Trains Plant 1	90	02-May-18	30-Jul-18*	Project Closeout - CD Oxygenation Trains Plant 1																																	
Project Administration		2556	01-Mar-11 A	01-May-18	Project Administration - CD Oxygenation Trains Plant 1																																	
CD33980	WASD Project Administration - CD Oxygenation Trains Plant 1	2556	01-Mar-11 A	01-May-18	WASD Project Administration - CD Oxygenation Trains Plant 1																																	
2.06 Oxygenation Trains Plant 2		4063	01-Mar-11 A	14-Apr-22	2.06 Oxygenation Trains Plant 2																																	
Pre-Design		230	05-Jul-16 A	20-Feb-17 A	Pre-Design - CD Oxygenation Trains Plant 2																																	
CD81270	Pre-Design - CD Oxygenation Trains Plant 2	231	05-Jul-16 A	20-Feb-17 A	Pre-Design - CD Oxygenation Trains Plant 2																																	
Engineering Design		2356	01-Mar-11 A	12-Aug-17 A	Engineering Design - CD Oxygenation Trains Plant 2																																	
CD10610	Engineering Design - CD Oxygenation Trains Plant 2	63	01-Mar-11 A	02-May-11 A	Engineering Design - CD Oxygenation Trains Plant 2																																	
CD82500	EPA Start Date for Engineering Design - CD Oxygenation Trains Plant 2	0	01-Jun-16 A		EPA Start Date for Engineering Design - CD Oxygenation Trains Plant 2																																	
CD80510	EPA Compliance Date for Engineering Design - CD Oxygenation Trains Plant 2**	0		02-Sep-16 A	EPA Compliance Date for Engineering Design - CD Oxygenation Trains Plant 2**																																	
CD81280	Engineering Design (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2	173	21-Feb-17 A	12-Aug-17 A	Engineering Design (Structural Rehab Train #2) - CD Oxygenation Trains Plant 2																																	
CD81290	Engineering Design (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2	173	21-Feb-17 A	12-Aug-17 A	Engineering Design (Structural Rehab Train #4) - CD Oxygenation Trains Plant 2																																	
Permitting		2378	01-Mar-11 A	02-Sep-17 A	Permitting - CD Oxygenation Trains Plant 2																																	
CD10690	Permitting - CD Oxygenation Trains Plant 2	62	01-Mar-11 A	02-May-11 A	Permitting - CD Oxygenation Trains Plant 2																																	
CD82510	EPA Start Date for Permitting - CD Oxygenation Trains Plant 2	0	03-Sep-16 A		EPA Start Date for Permitting - CD Oxygenation Trains Plant 2																																	

[illegible]

** EPA Interim Milestone Date was missed.

WASD Consent Decree Schedule - December 2017 Update			Standard Layout w Baseline (By Phase)										15-Jan-18 13:30 - Page No. 26 of 77																									
Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
CD34100	WASD Project Administration - CD Digesters Plant 2 Cluster 2	1837	05-May-15 A	14-May-20	WASD Project Administration - CD Digesters Plant 2 Cluster 2																																	
2.15.3 Cluster 3					2291	13-Apr-16 A	21-Jul-22	2.15.3 Cluster 3																														
Pre-Design					483	13-Apr-16 A	09-Aug-17 A	Pre-Design - CD Digesters Plant 2 Cluster 3																														
CD12191	Pre-Design - CD Digesters Plant 2 Cluster 3	484	13-Apr-16 A	09-Aug-17 A	Pre-Design - CD Digesters Plant 2 Cluster 3																																	
Engineering Design					486	09-Aug-17 A	07-Dec-18	Engineering Design - CD Digesters Plant 2 Cluster 3																														
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*		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	05-Feb-18	100% Design Submittal - CD Digesters Plant 2 Cluster 3																																	
CD10300	Engineering Design - CD Digesters Plant 2 Cluster 3	203	09-Aug-17 A	27-Feb-18	Engineering Design - CD Digesters Plant 2 Cluster 3																																	
CD40460	100% Design Review/Permit Ready Submittal - CD Digesters Plant 2 Cluster 3	22	06-Feb-18	27-Feb-18	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*	EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 3																																	
Permitting					648	28-Feb-18	07-Dec-19	Permitting - CD Digesters Plant 2 Cluster 3																														
CD10400	Permitting - CD Digesters Plant 2 Cluster 3	180	28-Feb-18	26-Aug-18	Permitting - CD Digesters Plant 2 Cluster 3																																	
CD82990	EPA Start Date for Permitting - CD Digesters Plant 2 Cluster 3	0	08-Dec-18*		EPA Start Date for Permitting - CD Digesters Plant 2 Cluster 3																																	
CD81670	EPA Compliance Date for Permitting - CD Digesters Plant 2 Cluster 3	0		07-Dec-19*	EPA Compliance Date for Permitting - CD Digesters Plant 2 Cluster 3																																	
Procurement					833	27-Aug-18	06-Dec-20	Procurement - CD Digesters Plant 2 Cluster 3																														
CD84080	Internal Bid Package Review - CD Digesters Plant 2 Cluster 3	3	27-Aug-18	29-Aug-18	Internal Bid Package Review - CD Digesters Plant 2 Cluster 3																																	
CD31920	Design Documents Sent to Procurement - CD Digesters Plant 2 Cluster 3	0	30-Aug-18		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	30-Aug-18	28-Oct-18	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	29-Oct-18		Advertise Bid Package - CD Digesters Plant 2 Cluster 3																																	
CD31950	Bid Solicitation Period - CD Digesters Plant 2 Cluster 3	60	29-Oct-18	27-Dec-18	Bid Solicitation Period - CD Digesters Plant 2 Cluster 3																																	
CD31960	Bids Due - CD Digesters Plant 2 Cluster 3	0	28-Dec-18		Bids Due - CD Digesters Plant 2 Cluster 3																																	
CD31970	Bid Review Period - CD Digesters Plant 2 Cluster 3	30	28-Dec-18	26-Jan-19	Bid Review Period - CD Digesters Plant 2 Cluster 3																																	
CD31980	Award Recommendation - CD Digesters Plant 2 Cluster 3	0		26-Jan-19	Award Recommendation - CD Digesters Plant 2 Cluster 3																																	
CD10640	Procurement - CD Digesters Plant 2 Cluster 3	270	30-Aug-18	26-May-19	Procurement - CD Digesters Plant 2 Cluster 3																																	
CD31990	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 3	120	27-Jan-19	26-May-19	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 3																																	
CD83000	EPA Start Date for Procurement - CD Digesters Plant 2 Cluster 3	0	08-Dec-19*		EPA Start Date for Procurement - 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																																	
Construction					858	16-Mar-20	21-Jul-22	Construction - CD Digesters Plant 2 Cluster 3																														
CD10878	Contractor Notice to Proceed (NTP) - CD Digesters Plant 2 Cluster 3	0	16-Mar-20		Contractor Notice to Proceed (NTP) - CD Digesters Plant 2 Cluster 3																																	
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																																	
CD10880	Construction - CD Digesters Plant 2 Cluster 3	550	16-Mar-20	16-Sep-21	Construction - CD Digesters Plant 2 Cluster 3																																	
CD11140	Substantial Completion (CD Compliance Date 8/19/22) - CD Digesters Plant 2 Cluster 3	0		16-Sep-21*	Substantial Completion (CD Compliance Date 8/19/22) - CD Digesters Plant 2 Cluster 3																																	
CD40160	Project Closeout - CD Digesters Plant 2 Cluster 3	90	17-Sep-21	15-Dec-21*	Project Closeout - CD Digesters Plant 2 Cluster 3																																	
CD81180	EPA Compliance Date for Construction - CD Digesters Plant 2 Cluster 3	0		21-Jul-22*	EPA Compliance Date for Construction - CD Digesters Plant 2 Cluster 3																																	
Project Administration					1446	31-Dec-17	15-Dec-21	WASD Project Administration - CD Digesters Plant 2 Cluster 3																														
CD34110	WASD Project Administration - CD Digesters Plant 2 Cluster 3	1446	31-Dec-17	15-Dec-21	WASD Project Administration - CD Digesters Plant 2 Cluster 3																																	
2.15.4 Cluster 4					2829	19-Dec-14 A	16-Sep-22	2.15.4 Cluster 4																														
Pre-Design					136	19-Dec-14 A	04-May-15 A	Pre-Design - CD Digesters Plant 2 Cluster 4																														
CD12201	Pre-Design - CD Digesters Plant 2 Cluster 4	137	19-Dec-14 A	04-May-15 A	Pre-Design - CD Digesters Plant 2 Cluster 4																																	
Engineering Design					1682	19-Mar-15 A	25-Oct-19	Engineering Design - CD Digesters Plant 2 Cluster 4																														
CD83020	EPA Start Date for Engineering Design - CD Digesters Plant 2 Cluster 4	0	19-Mar-15 A		EPA Start Date for Engineering Design - CD Digesters Plant 2 Cluster 4**																																	
CD20340	Basis of Design Report (BODR) - CD Digesters Plant 2 Cluster 4	100	05-May-15 A	12-Aug-15 A	Basis of Design Report (BODR) - CD Digesters Plant 2 Cluster 4																																	
CD20350	BODR Review Period - CD Digesters Plant 2 Cluster 4	14	13-Aug-15 A	26-Aug-15 A	BODR Review Period - CD Digesters Plant 2 Cluster 4																																	
CD20380	60% Design Submittal - CD Digesters Plant 2 Cluster 4	57	19-Oct-15 A	14-Dec-15 A	60% Design Submittal - CD Digesters Plant 2 Cluster 4																																	
CD20390	60% Design Review - CD Digesters Plant 2 Cluster 4	8	15-Dec-15 A	22-Dec-15 A	60% Design Review - CD Digesters Plant 2 Cluster 4																																	
CD81190	EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 4**	0		11-Mar-16 A	EPA Compliance Date for Engineering Design - CD Digesters Plant 2 Cluster 4**																																	
CD20400	100% Design Submittal - CD Digesters Plant 2 Cluster 4	240	26-Oct-18*	22-Jun-19	100% Design Submittal - CD Digesters Plant 2 Cluster 4																																	
CD11060	Engineering Design - CD Digesters Plant 2 Cluster 4	1636	04-May-15 A	25-Oct-19	Engineering Design - CD Digesters Plant 2 Cluster 4																																	
CD40470	100% Design Review/Permit Ready Submittal - CD Digesters Plant 2 Cluster 4	125	23-Jun-19	25-Oct-19	100% Design Review/Permit Ready Submittal - CD Digesters Plant 2 Cluster 4																																	
Permitting					1634	12-Mar-16 A	31-Aug-20	Permitting - CD Digesters Plant 2 Cluster 4																														
CD83050	EPA Start Date for Permitting - CD Digesters Plant 2 Cluster 4**	0	12-Mar-16 A		EPA Start Date for Permitting - CD Digesters Plant 2 Cluster 4**																																	
CD11130	Permitting - CD Digesters Plant 2 Cluster 4	270	26-Oct-19	21-Jul-20	Permitting - CD Digesters Plant 2 Cluster 4																																	
CD81200	EPA Compliance Date for Permitting - CD Digesters Plant 2 Cluster 4	0		31-Aug-20*	EPA Compliance Date for Permitting - CD Digesters Plant 2 Cluster 4																																	
Procurement					406	22-Jul-20	31-Aug-21	Procurement - CD Digesters Plant 2 Cluster 4																														
CD84090	Internal Bid Package Review - CD Digesters Plant 2 Cluster 4	3	22-Jul-20	24-Jul-20	Internal Bid Package Review - CD Digesters Plant 2 Cluster 4																																	
CD32000	Design Documents Sent to Procurement - CD Digesters Plant 2 Cluster 4	0	25-Jul-20		Design Documents Sent to Procurement - CD Digesters Plant 2 Cluster 4																																	
CD83040	EPA Start Date for Procurement - CD Digesters Plant 2 Cluster 4	0	01-Sep-20*		EPA Start Date for Procurement - CD Digesters Plant 2 Cluster 4																																	
CD32010	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 2 Cluster 4	60	25-Jul-20	22-Sep-20	Submit/Approve SBD Goals and Request to Advertise - CD Digesters Plant 2 Cluster 4																																	
CD32020	Advertise Bid Package - CD Digesters Plant 2 Cluster 4	0	23-Sep-20		Advertise Bid Package - CD Digesters Plant 2 Cluster 4																																	
CD32030	Bid Solicitation Period - CD Digesters Plant 2 Cluster 4	60	23-Sep-20	21-Nov-20	Bid Solicitation Period - CD Digesters Plant 2 Cluster 4																																	
CD32040	Bids Due - CD Digesters Plant 2 Cluster 4	0	22-Nov-20		Bids Due - CD Digesters Plant 2 Cluster 4																																	
CD32050	Bid Review Period - CD Digesters Plant 2 Cluster 4	30	22-Nov-20	21-Dec-20	Bid Review Period - CD Digesters Plant 2 Cluster 4																																	
CD32060	Award Recommendation - CD Digesters Plant 2 Cluster 4	0		21-Dec-20	Award Recommendation - CD Digesters Plant 2 Cluster 4																																	
CD11250	Procurement - CD Digesters Plant 2 Cluster 4	270	25-Jul-20	20-Apr-21	Procurement - CD Digesters Plant 2 Cluster 4																																	
CD32070	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 4	120	22-Dec-20	20-Apr-21	Final Approvals (BCC, Mayor, Risk Mgmt.) - CD Digesters Plant 2 Cluster 4																																	
CD81210	EPA Compliance Date for Procurement - CD Digesters Plant 2 Cluster 4	0		31-Aug-21*	EPA Compliance Date for Procurement - CD Digesters Plant 2 Cluster 4																																	
Construction					514	21-Apr-21	16-Sep-22	Construction - CD Digesters Plant 2 Cluster 4																														
CD11328	Contractor Notice to Proceed (NTP) - CD Digesters Plant 2 Cluster 4	0	21-Apr-21		Contractor Notice to Proceed (NTP) - CD Digesters Plant 2 Cluster 4																																	
CD83030	EPA Start Date for Construction - CD Digesters Plant 2 Cluster 4	0	01-Sep-21*		EPA Start Date for Construction - CD Digesters Plant 2 Cluster 4																																	

WASD Consent Decree Schedule - December 2017 Update			Standard Layout w Baseline (By Phase)												15-Jan-18 13:30 - Page No. 42 of 77																								
Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024		
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2					
3.09 Flood Mitigation					1246	04-Apr-14 A	31-Aug-17 A	31-Aug-17 A, 3.09 Flood Mitigation																															
Engineering Design					422	04-Apr-14 A	30-May-15 A	Engineering Design																															
ND71120	EPA Start Date for Engineering Design - ND Flood Mitigation	0	21-Apr-14 A		D Flood Mitigation																																		
ND20650	Flood Mitigation Interim Solution Letter - ND Flood Mitigation	0	24-Nov-14 A		ution Letter - ND Flood Mitigation																																		
ND10030	Engineering Design - ND Flood Mitigation	422	04-Apr-14 A	30-May-15 A	esign - ND Flood Mitigation																																		
ND70640	EPA Compliance Date for Engineering Design - ND Flood Mitigation	0		30-May-15 A	ce Date for Engineering Design - ND Flood Mitigation																																		
Permitting					364	27-Nov-14 A	26-Nov-15 A	6-Nov-15 A, Permitting																															
ND71130	EPA Start Date for Permitting - ND Flood Mitigation	0	27-Nov-14 A		ng - ND Flood Mitigation																																		
ND10060	Permitting - ND Flood Mitigation	1	01-May-15 A	01-May-15 A	ermitting - ND Flood Mitigation																																		
ND70650	EPA Compliance Date for Permitting - ND Flood Mitigation	0		26-Nov-15 A	EPA Compliance Date for Permitting - ND Flood Mitigation																																		
Procurement					574	01-May-15 A	25-Nov-16 A	25-Nov-16 A, Procurement																															
ND71140	EPA Start Date for Procurement - ND Flood Mitigation	0	27-Nov-15 A		EPA Start Date for Procurement - ND Flood Mitigation																																		
ND10110	Procurement - ND Flood Mitigation	421	01-May-15 A	24-Jun-16 A	Procurement - ND Flood Mitigation																																		
ND70660	EPA Compliance Date for Procurement - ND Flood Mitigation	0		25-Nov-16 A	EPA Compliance Date for Procurement - ND Flood Mitigation																																		
Construction					854	01-May-15 A	31-Aug-17 A	31-Aug-17 A, Construction																															
ND10160	Construction - ND Flood Mitigation	421	01-May-15 A	24-Jun-16 A	Construction - ND Flood Mitigation																																		
ND10220	Substantial Completion (CD Compliance Date 8/13/17) - ND Flood Mitigation	0		24-Jun-16 A	Substantial Completion (CD Compliance Date 8/13/17) - ND Flood Mitigation																																		
ND71150	EPA Start Date for Construction - ND Flood Mitigation	0	26-Nov-16 A		EPA Start Date for Construction - ND Flood Mitigation																																		
ND70670	EPA Compliance Date for Construction - ND Flood Mitigation	0		31-Aug-17 A	EPA Compliance Date for Construction - ND Flood Mitigation																																		
Project Administration					812	04-Apr-14 A	24-Jun-16 A	24-Jun-16 A, Project Administration																															
ND21590	WASD Project Administration - ND Flood Mitigation	813	04-Apr-14 A	24-Jun-16 A	WASD Project Administration - ND Flood Mitigation																																		
3.10 Yard Piping Replacement					2436	05-Apr-15 A	04-Dec-21	04-Dec-21, 3.10 Yard Piping Replacement																															
Pre-Design					0	06-Apr-15 A	06-Apr-15 A	Design																															
ND11435	Pre-Design - ND Secondary Clarifiers	1	06-Apr-15 A	06-Apr-15 A	Secondary Clarifiers																																		
Engineering Design					832	06-Apr-15 A	16-Jul-17 A	16-Jul-17 A, Engineering Design																															
ND10100	Engineering Design - ND Yard Piping Replacement	0	06-Apr-15 A	06-Apr-15 A	Engineering Design - ND Yard Piping Replacement																																		
ND71160	EPA Start Date for Engineering Design - ND Yard Piping Replacement	0	10-Apr-16 A		EPA Start Date for Engineering Design - ND Yard Piping Replacement																																		
ND70680	EPA Compliance Date for Engineering Design - ND Yard Piping Replacement	0		16-Jul-17 A	EPA Compliance Date for Engineering Design - ND Yard Piping Replacement																																		
Permitting					1013	06-Apr-15 A	12-Jan-18	12-Jan-18, Permitting																															
ND10150	Permitting - ND Yard Piping Replacement	1	06-Apr-15 A	06-Apr-15 A	Permitting - ND Yard Piping Replacement																																		
ND71170	EPA Start Date for Permitting - ND Yard Piping Replacement	0	17-Jul-17 A		EPA Start Date for Permitting - ND Yard Piping Replacement																																		
ND70690	EPA Compliance Date for Permitting - ND Yard Piping Replacement	0		12-Jan-18*	EPA Compliance Date for Permitting - ND Yard Piping Replacement																																		
Procurement					1284	05-Apr-15 A	09-Oct-18	09-Oct-18, Procurement																															
ND10240	Procurement - ND Yard Piping Replacement	2	05-Apr-15 A	06-Apr-15 A	Procurement - ND Yard Piping Replacement																																		
ND71180	EPA Start Date for Procurement - ND Yard Piping Replacement	0	13-Jan-18*		EPA Start Date for Procurement - ND Yard Piping Replacement																																		
ND70700	EPA Compliance Date for Procurement - ND Yard Piping Replacement	0		09-Oct-18*	EPA Compliance Date for Procurement - ND Yard Piping Replacement																																		
Construction					2386	25-May-15 A	04-Dec-21	04-Dec-21, Construction																															
ND20870	Rehab 1st 84" Pipe - ND Yard Piping Replacement	123	25-May-15 A	24-Sep-15 A	b 1st 84" Pipe - ND Yard Piping Replacement																																		
ND10290	Construction - ND Yard Piping Replacement	366	25-May-15 A	24-May-16 A	Construction - ND Yard Piping Replacement																																		
ND20860	Rehab 2nd 84" Pipe - ND Yard Piping Replacement	83	03-Mar-16 A	24-May-16 A	Rehab 2nd 84" Pipe - ND Yard Piping Replacement																																		
ND10440	Substantial Completion (CD Compliance Date 12/04/21) - ND Yard Piping Replacement	0		24-May-16 A	Substantial Completion (CD Compliance Date 12/04/21) - ND Yard Piping Replacement																																		
ND71190	EPA Start Date for Construction - ND Yard Piping Replacement	0	10-Oct-18*		EPA Start Date for Construction - ND Yard Piping Replacement																																		
ND70710	EPA Compliance Date for Construction - ND Yard Piping Replacement	0		04-Dec-21*	EPA Compliance Date for Construction - ND Yard Piping Replacement																																		
Project Administration					414	06-Apr-15 A	24-May-16 A	24-May-16 A, Project Administration																															
ND21600	WASD Project Administration - ND Secondary Clarifiers	415	06-Apr-15 A	24-May-16 A	WASD Project Administration - ND Secondary Clarifiers																																		
3.11 SCADA RTU Upgrades					540	30-Sep-13 A	24-Mar-15 A	SCADA RTU Upgrades																															
Construction					540	30-Sep-13 A	24-Mar-15 A	struction																															
ND71200	EPA Start Date for Construction - ND SCADA RTU Upgrades	0	01-Oct-13 A		ades																																		
ND10020	Construction - ND SCADA RTU Upgrades	423	30-Sep-13 A	26-Nov-14 A	SCADA RTU Upgrades																																		
ND10070	Substantial Completion (CD Compliance Date 3/24/15) - ND SCADA RTU Upgrades	0		26-Nov-14 A	D Compliance Date 3/24/15) - ND SCADA RTU Upgrades																																		
ND70720	EPA Compliance Date for Construction - ND SCADA RTU Upgrades	0		24-Mar-15 A	ate for Construction - ND SCADA RTU Upgrades																																		
Project Administration					422	30-Sep-13 A	26-Nov-14 A	nistration																															
ND71780	WASD Project Administration - ND SCADA RTU Upgrades	423	30-Sep-13 A	26-Nov-14 A	nistration - ND SCADA RTU Upgrades																																		
4. Wastewater Collection & Transmission Line					5841	01-Oct-11 A	27-Sep-27																																
4.01 Collection System I/I Repairs					5110	01-Oct-13 A	27-Sep-27																																
Construction					5110	01-Oct-13 A	27-Sep-27																																
CT71230	EPA Start Date for Construction - Collection System I/I Repair	0	01-Oct-13 A		pair																																		
CT10070	Construction - Collection System I/I Repair	4161	01-Oct-13 A	20-Feb-25																																			
CT10430	Substantial Completion (CD Compliance Date 9/27/27) - Collection System I/I Repair	0		20-Feb-25*																																			
CT50590	EPA Compliance Date for Construction - Collection System I/I Repair	0		27-Sep-27*																																			
4.01 (1.0) - PMCM CIPP I/I Repairs					3673	01-Feb-15 A	20-Feb-25																																
Engineering Design					1065	01-Feb-15 A	15-Aug-17 A	15-Aug-17 A, Engineering Design																															
CT30000	CIPP Specifications & Scope to MDWASD - 2015/2016 Fiscal Year	18	01-Feb-15 A	18-Feb-15 A	k Scope to MDWASD - 2015/2016 Fiscal Year																																		
CT30090	CIPP Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (PO 168)	55	01-May-16 A	24-Jun-16 A	CIPP Specifications & Scope to MDWASD - 2016/2017 Fiscal Year (PO 168)																																		
CT30220	CIPP Specifications & Scope to MDWASD - 2017/2018 Fiscal Year	245	01-May-17 A	15-Aug-17 A	CIPP Specifications & Scope to MDWASD - 2017/2018 Fiscal Year																																		
Procurement					730	01-Feb-15 A	31-Jan-17 A	31-Jan-17 A, Procurement																															
CT30010	CIPP Contractor Procurement - 2015/2016 Fiscal Year	303	01-Feb-15 A	30-Nov-15 A	CIPP Contractor Procurement - 2015/2016 Fiscal Year																																		
CT30120	CIPP Contractor Procurement - 2016/2017 Fiscal Year (RPQ PO 193)	183	02-Aug-16 A	31-Jan-17 A	CIPP Contractor Procurement - 2016/2017 Fiscal Year (RPQ PO 193)																																		
Construction					3364	07-Dec-15 A	20-Feb-25																																
CT30060	CIPP Contract (Construction) - 2015/2016 Fiscal Year (PO 168)	446	07-Dec-15 A	24-Feb-17 A	CIPP Contract (Construction) - 2015/2016 Fiscal Year (PO 168)																																		

WASD Consent Decree Schedule - December 2017 Update			Standard Layout w Baseline (By Phase)												15-Jan-18 13:30 - Page No. 47 of 77																							
Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
CT35230	Bids Due - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0	07-Jul-16 A																																			
CT35240	Bid Review Period - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	44	07-Jul-16 A	19-Aug-16 A																																		
CT35250	Award Recommendation - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0		19-Aug-16 A																																		
CT50950	Bid Protest - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	31	24-Aug-16 A	23-Sep-16 A																																		
CT22750	Procurement - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	162	18-Apr-16 A	26-Sep-16 A																																		
CT35260	Final Approvals (BCC, Mayor, Risk Mgmt.) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	3	24-Sep-16 A	26-Sep-16 A																																		
Construction		946	27-Sep-16 A	30-Apr-19																																		
CT35270	Contractor Notice to Proceed (NTP) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0	27-Sep-16 A																																			
CT22760	Construction Phase 2 - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	365	31-Jan-18*	30-Jan-19																																		
CT22770	Substantial Completion (Non Consent Decree) - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	0		30-Jan-19																																		
CT40430	Project Closeout - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	90	31-Jan-19	30-Apr-19																																		
Project Administration		1450	12-Mar-15 A	30-Apr-19																																		
CT38380	WASD Project Administration - Rehab/Replace Additional 2 Miles of 54" PCCP FM in the City	1450	12-Mar-15 A	30-Apr-19																																		
4.09 Replace Approximately 30 miles of AC FM Transmission System			2678	28-Aug-12 A	27-Dec-19																																	
Engineering Design		2087	28-Aug-12 A	18-Jun-18																																		
CT71490	EPA Start Date for Engineering Design - Replace ~30 miles of AC FM Trans System**	0	01-Nov-13 A																																			
CT50840	EPA Compliance Date for Engineering Design - Replace ~30 miles of AC FM Trans System**	0		09-Oct-14 A																																		
CT10110	Engineering Design - Replace ~30 miles of AC FM Trans System	2087	28-Aug-12 A	18-Jun-18																																		
Permitting		1926	05-Aug-13 A	12-Nov-18																																		
CT71500	EPA Start Date for Permitting - Replace ~30 miles of AC FM Trans System**	0	10-Oct-14 A																																			
CT10190	Permitting - Replace ~30 miles of AC FM Trans System	1835	05-Aug-13 A	16-Sep-18																																		
CT50850	EPA Compliance Date for Permitting - Replace ~30 miles of AC FM Trans System	0		12-Nov-18*																																		
Procurement		1943	16-Dec-13 A	11-Apr-19																																		
CT71510	EPA Start Date for Procurement - Replace ~30 miles of AC FM Trans System**	0	10-Oct-15 A																																			
CT10270	Procurement - Replace ~30 miles of AC FM Trans System	1750	16-Dec-13 A	03-Nov-18																																		
CT50860	EPA Compliance Date for Procurement - Replace ~30 miles of AC FM Trans System	0		11-Apr-19*																																		
Construction		2004	14-Apr-14 A	08-Oct-19																																		
CT71520	EPA Start Date for Construction - Replace ~30 miles of AC FM Trans System	0	09-Oct-16 A																																			
CT10340	Construction - Replace ~30 miles of AC FM Trans System	1935	14-Apr-14 A	28-Sep-19																																		
CT10420	Substantial Completion (CD Compliance Date 10/08/19) - Replace ~30 miles of AC FM Trans System	0		28-Sep-19*																																		
CT50880	EPA Compliance Date for Construction - Replace ~30 miles of AC FM Trans System	0		08-Oct-19*																																		
4.09 (1), (44-45), (54-56), (57-59), (64) - Asbestos Concrete Pipe (ACP) Cut and Plug			332	24-Oct-17 A	27-Oct-18																																	
Pre-Design		89	24-Oct-17 A	31-Mar-18																																		
CT22260	Pre-Design - 4.09 (1), (44-45), (54-56), (57-59), (64)	89	24-Oct-17 A	31-Mar-18																																		
Engineering Design		120	01-Apr-18	29-Jul-18																																		
CT12101	Verification of Existing Conditions - 4.09 (1), (44-45), (54-56), (57-59), (64)	120	01-Apr-18	29-Jul-18																																		
Construction		90	30-Jul-18	27-Oct-18																																		
CT40440	Project Closeout - 4.09 (1), (44-45), (54-56), (57-59), (64)	90	30-Jul-18	27-Oct-18*																																		
Project Administration		210	01-Apr-18	27-Oct-18																																		
CT38530	WASD Project Administration - 4.09 (1), (44-45), (54-56), (57-59), (64)	210	01-Apr-18	27-Oct-18																																		
4.09 (2) Replacement of 2,403 LF of 12" ACP FM - NE 14th Ave. from PS-0455 to Miami Gardens Dr.			1063	24-Apr-14 A	22-Mar-17 A																																	
Engineering Design		440	24-Apr-14 A	08-Jul-15 A																																		
CT12151	Engineering Design - 4.09 (2)	441	24-Apr-14 A	08-Jul-15 A																																		
Permitting		77	09-Jul-15 A	24-Sep-15 A																																		
CT12161	Permitting - 4.09 (2)	78	09-Jul-15 A	24-Sep-15 A																																		
Procurement		203	26-Oct-15 A	16-May-16 A																																		
CT35010	Design Documents Sent to Procurement - 4.09 (2)	0	26-Oct-15 A																																			
CT35020	Submit/Approve SBD Goals and Request to Advertise - 4.09 (2)	14	26-Oct-15 A	08-Nov-15 A																																		
CT35030	Advertise Bid Package - 4.09 (2)	0	09-Nov-15 A																																			
CT35040	Bid Solicitation Period - 4.09 (2)	36	09-Nov-15 A	14-Dec-15 A																																		
CT35050	Bids Due - 4.09 (2)	0	14-Dec-15 A																																			
CT35060	Bid Review Period - 4.09 (2)	33	14-Dec-15 A	15-Jan-16 A																																		
CT35070	Award Recommendation - 4.09 (2)	0		15-Jan-16 A																																		
CT12171	Procurement - 4.09 (2)	204	26-Oct-15 A	16-May-16 A																																		
CT35080	Final Approvals - 4.09 (2)	122	16-Jan-16 A	16-May-16 A																																		
Construction		309	17-May-16 A	22-Mar-17 A																																		
CT35090	Contractor Notice to Proceed (NTP) - 4.09 (2)	0	17-May-16 A																																			
CT12181	Construction - 4.09 (2)	162	17-May-16 A	25-Oct-16 A																																		
CT12191	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (2)	0		25-Oct-16 A																																		
CT40450	Project Closeout - 4.09 (2)	149	25-Oct-16 A	22-Mar-17 A																																		
Project Administration		1063	24-Apr-14 A	22-Mar-17 A																																		
CT38370	WASD Project Administration - 4.09 (2)	1064	24-Apr-14 A	22-Mar-17 A																																		
4.09 (3-5, 8) RPQ T1811 Replacement of FM from Pump Station #0356 to NW 183rd and 52nd Ave.			1668	28-Aug-12 A	22-Mar-17 A																																	
Engineering Design		244	28-Aug-12 A	02-Aug-13 A																																		
CT12201	Engineering Design - 4.09 (3-5,8)	244	28-Aug-12 A	02-Aug-13 A																																		
Permitting		100	05-Aug-13 A	20-Dec-13 A																																		
CT12211	Permitting - 4.09 (3-5,8)	100	05-Aug-13 A	20-Dec-13 A																																		
Procurement		85	16-Dec-13 A	11-Apr-14 A																																		
CT12221	Procurement - 4.09 (3-5,8)	85	16-Dec-13 A	11-Apr-14 A																																		
Construction		1074	14-Apr-14 A	22-Mar-17 A																																		

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Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
CT12231	Construction - 4.09 (3-5,8)	86	14-Apr-14 A	11-Aug-14 A	Construction - 4.09 (3-5,8)																																	
CT12241	Substantial Completion (CD Compliance Date 10/08/19) - 4.9 (3-5,8)	0		11-Aug-14 A	Compliance Date 10/08/19) - 4.9 (3-5,8)																																	
CT80630	Project Closeout - 4.9 (3-5,8)	149	25-Oct-16 A	22-Mar-17 A	Project Closeout - 4.9 (3-5,8)																																	
Project Administration		510	28-Aug-12 A	11-Aug-14 A	Project Administration - 4.09 (3-5,8)																																	
CT38500	WASD Project Administration - 4.09 (3-5,8)	510	28-Aug-12 A	11-Aug-14 A	WASD Project Administration - 4.09 (3-5,8)																																	
4.09 (6-7) Replace 325LF of 6" ACP FM from PS #0362 to NW52nd Ct. and 190th St. & 400LF 10" to 189th		1160	29-Aug-14 A	31-Jan-18	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		209	29-Aug-14 A	26-Mar-15 A	Pre-Design - 4.09 (6-7)																																	
CT22270	Pre-Design - 4.09 (6-7)	210	29-Aug-14 A	26-Mar-15 A	Pre-Design - 4.09 (6-7)																																	
Engineering Design		220	27-Mar-15 A	02-Nov-15 A	Engineering Design - 4.09 (6-7)																																	
CT12251	Engineering Design - 4.09 (6-7)	221	27-Mar-15 A	02-Nov-15 A	Engineering Design - 4.09 (6-7)																																	
Permitting		155	03-Nov-15 A	06-Apr-16 A	Permitting - 4.09 (6-7)																																	
CT12261	Permitting - 4.09 (6-7)	156	03-Nov-15 A	06-Apr-16 A	Permitting - 4.09 (6-7)																																	
Procurement		438	15-Apr-16 A	26-Jun-17 A	Procurement - 4.09 (6-7)																																	
CT35280	Design Documents Sent to Procurement - 4.09 (6-7)	0	15-Apr-16 A		Design Documents Sent to Procurement - 4.09 (6-7)																																	
CT35290	Submit/Approve SBD Goals and Request to Advertise - 4.09 (6-7)	73	15-Apr-16 A	26-Jun-16 A	Submit/Approve SBD Goals and Request to Advertise - 4.09 (6-7)																																	
CT35300	Advertise Bid Package - 4.09 (6-7)	0	27-Jun-16 A		Advertise Bid Package - 4.09 (6-7)																																	
CT35310	Bid Solicitation Period - 4.09 (6-7)	30	27-Jun-16 A	26-Jul-16 A	Bid Solicitation Period - 4.09 (6-7)																																	
CT35320	Bids Due - 4.09 (6-7)	0	27-Jul-16 A		Bids Due - 4.09 (6-7)																																	
CT35330	Bid Review Period - 4.09 (6-7)	46	27-Jul-16 A	10-Sep-16 A	Bid Review Period - 4.09 (6-7)																																	
CT35340	Award Recommendation - 4.09 (6-7)	0		10-Sep-16 A	Award Recommendation - 4.09 (6-7)																																	
CT12271	Procurement - 4.09 (6-7)	168	15-Apr-16 A	29-Sep-16 A	Procurement - 4.09 (6-7)																																	
CT35350	Final Approvals - 4.09 (6-7)	19	11-Sep-16 A	29-Sep-16 A	Final Approvals - 4.09 (6-7)																																	
CT51010	P.O. Issued - 4.09 (6-7)	0		29-Sep-16 A	P.O. Issued - 4.09 (6-7)																																	
CT80450	Contractor Withdrew Bid - 4.09 (6-7)	0	25-Jan-17 A		Contractor Withdrew Bid - 4.09 (6-7)																																	
CT80460	Bid Review Period (Second Bidder) - 4.09 (6-7)	41	25-Jan-17 A	06-Mar-17 A	Bid Review Period (Second Bidder) - 4.09 (6-7)																																	
CT80470	Award Recommendation (Second Bidder) - 4.09 (6-7)	0		06-Mar-17 A	Award Recommendation (Second Bidder) - 4.09 (6-7)																																	
CT80480	Final Approvals (Second Bidder) - 4.09 (6-7)	112	07-Mar-17 A	26-Jun-17 A	Final Approvals (Second Bidder) - 4.09 (6-7)																																	
CT80490	P.O. Issued (Second Bidder) - 4.09 (6-7)	0		26-Jun-17 A	P.O. Issued (Second Bidder) - 4.09 (6-7)																																	
Construction		128	26-Jun-17 A	31-Jan-18	Construction - 4.09 (6-7)																																	
CT35360	Contractor Notice to Proceed (NTP) - 4.09 (6-7)	0	26-Jun-17 A		Contractor 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 10/08/19) - 4.09 (6-7)	0		18-Aug-17 A	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (6-7)																																	
CT40460	Project Closeout - 4.09 (6-7)	74	19-Aug-17 A	31-Jan-18*	Project Closeout - 4.09 (6-7)																																	
Project Administration		950	27-Mar-15 A	31-Jan-18	Project Administration - 4.09 (6-7)																																	
CT38360	WASD Project Administration - 4.09 (6-7)	950	27-Mar-15 A	31-Jan-18	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 (9-13) Replacement of 6, 8 and 12" ACP FM Between PS#0385, PS#0374 and NW 119th St./37th Ave.																																	
Engineering Design		394	28-Aug-12 A	28-Feb-14 A	Engineering Design - 4.09 (9-13)																																	
CT12301	Engineering Design - 4.09 (9-13)	394	28-Aug-12 A	28-Feb-14 A	Engineering Design - 4.09 (9-13)																																	
Permitting		65	03-Mar-14 A	31-May-14 A	Permitting - 4.09 (9-13)																																	
CT12311	Permitting - 4.09 (9-13)	65	03-Mar-14 A	31-May-14 A	Permitting - 4.09 (9-13)																																	
Procurement		177	01-Jun-14 A	03-Feb-15 A	Procurement - 4.09 (9-13)																																	
CT12321	Procurement - 4.09 (9-13)	177	01-Jun-14 A	03-Feb-15 A	Procurement - 4.09 (9-13)																																	
Construction		185	04-Feb-15 A	07-Aug-15 A	Construction - 4.09 (9-13)																																	
CT12331	Construction - 4.09 (9-13)	133	04-Feb-15 A	07-Aug-15 A	Construction - 4.09 (9-13)																																	
CT12341	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (9-13)	0		07-Aug-15 A	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (9-13)																																	
Project Administration		769	28-Aug-12 A	07-Aug-15 A	Project Administration - 4.09 (9-13)																																	
CT38490	WASD Project Administration - 4.09 (9-13)	769	28-Aug-12 A	07-Aug-15 A	WASD Project Administration - 4.09 (9-13)																																	
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 (14-19) Replacement of 6, 8 & 10" ACP FM Around PS#0376, 0427, 0375, 0377 and 0368																																	
Engineering Design		415	28-Aug-12 A	31-Mar-14 A	Engineering Design - 4.09 (14-19)																																	
CT12351	Engineering Design - 4.09 (14-19)	415	28-Aug-12 A	31-Mar-14 A	Engineering Design - 4.09 (14-19)																																	
Permitting		65	01-Apr-14 A	30-Jun-14 A	Permitting - 4.09 (14-19)																																	
CT12361	Permitting - 4.09 (14-19)	65	01-Apr-14 A	30-Jun-14 A	Permitting - 4.09 (14-19)																																	
Procurement		164	01-Jul-14 A	15-Feb-15 A	Procurement - 4.09 (14-19)																																	
CT12371	Procurement - 4.09 (14-19)	164	01-Jul-14 A	15-Feb-15 A	Procurement - 4.09 (14-19)																																	
Construction		107	17-Feb-15 A	03-Jun-15 A	Construction - 4.09 (14-19)																																	
CT12381	Construction - 4.09 (14-19)	77	17-Feb-15 A	03-Jun-15 A	Construction - 4.09 (14-19)																																	
CT12391	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (14-19)	0		03-Jun-15 A	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (14-19)																																	
Project Administration		722	28-Aug-12 A	03-Jun-15 A	Project Administration - 4.09 (14-19)																																	
CT38520	WASD Project Administration - 4.09 (14-19)	722	28-Aug-12 A	03-Jun-15 A	WASD Project Administration - 4.09 (14-19)																																	
4.09 (20-21) Replace 467LF 8" ACP FM from PS#0366 to NW42ndPl/199thTer.& 1792LF 10"- 39thCt/199th St		1133	29-Aug-14 A	31-Jan-18	4.09 (20-21) Replace 467LF 8" ACP FM from PS#0366 to NW42ndPl/199thTer.& 1792LF 10"- 39thCt/199th St																																	
Pre-Design		244	29-Aug-14 A	30-Apr-15 A	Pre-Design - 4.9 (20-21)																																	
CT20030	Pre-Design - 4.9 (20-21)	245	29-Aug-14 A	30-Apr-15 A	Pre-Design - 4.9 (20-21)																																	
Engineering Design		152	30-Apr-15 A	29-Sep-15 A	Engineering Design - 4.09 (20-21)																																	
CT31001	30% Design Submittal - 4.09 (20-21)	34	01-May-15 A	03-Jun-15 A	30% Design Submittal - 4.09 (20-21)																																	
CT31011	60% Design Submittal - 4.09 (20-21)	28	04-Jun-15 A	01-Jul-15 A	60% Design Submittal - 4.09 (20-21)																																	
CT31021	90% Design Submittal - 4.09 (20-21)	22	02-Jul-15 A	23-Jul-15 A	90% Design Submittal - 4.09 (20-21)																																	
CT12401	Engineering Design - 4.09 (20-21)	152	30-Apr-15 A	29-Sep-15 A	Engineering Design - 4.09 (20-21)																																	
Permitting		83	29-Sep-15 A	21-Dec-15 A	Permitting - 4.09 (20-21)																																	
CT12411	Permitting - 4.09 (20-21)	84	29-Sep-15 A	21-Dec-15 A	Permitting - 4.09 (20-21)																																	
Procurement		170	22-Dec-15 A	09-Jun-16 A	Procurement - 4.09 (20-21)																																	
CT35370	100% Design Documents Sent to Procurement - 4.09 (20-21)	0	22-Dec-15 A		100% Design Documents Sent to Procurement - 4.09 (20-21)																																	

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Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
4.09 (33) Replace 1701 LF 4" ACP from PVT PS at SW104th Ave. & 169th St to MH42 at SW103rd Ave.			711	12-Feb-16 A	22-Jan-18	22-Jan-18, 4.09 (33) Replace 1701 LF 4" ACP from PVT PS at SW104th Ave. & 169th St. to MH42 at SW103rd Ave.																																
Engineering Design			73	12-Feb-16 A	25-Apr-16 A	25-Apr-16 A, Engineering Design																																
CT12851	Engineering Design - 4.09 (33)	74	12-Feb-16 A	25-Apr-16 A	Engineering Design - 4.09 (33)																																	
Permitting			53	28-Apr-16 A	20-Jun-16 A	20-Jun-16 A, Permitting																																
CT50300	Miami Dade Public Works Permit - 4.09 (33)	29	28-Apr-16 A	26-May-16 A	Miami Dade Public Works Permit - 4.09 (33)																																	
CT12861	Permitting - 4.09 (33)	54	28-Apr-16 A	20-Jun-16 A	Permitting - 4.09 (33)																																	
CT50290	RER (DERM) / FDEP Permit - 4.09 (33)	42	10-May-16 A	20-Jun-16 A	RER (DERM)/ FDEP Permit - 4.09 (33)																																	
Construction			448	01-Aug-16 A	22-Jan-18	22-Jan-18, Construction																																
CT12881	Construction (WASD In House) - 4.09 (33)	12	01-Aug-16 A	12-Aug-16 A	Construction (WASD In House) - 4.09 (33)																																	
CT12891	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (33)	0		12-Aug-16 A	Substantial Completion (CD Compliance Date: 10/08/19) - 4.09 (33)																																	
CT40560	Project Closeout - 4.09 (33)	436	13-Aug-16 A	22-Jan-18	Project Closeout - 4.09 (33)																																	
Project Administration			23	31-Dec-17	22-Jan-18	22-Jan-18, Project Administration																																
CT38260	WASD Project Administration - 4.09 (33)	23	31-Dec-17	22-Jan-18	WASD Project Administration - 4.09 (33)																																	
4.09 (34-43) Replace ACP DM with 8" & 12" DI FM from SW108 Pl/SW177 St to SW95 Ave/SW163 St.			1499	21-Oct-15 A	27-Nov-19	27-Nov-19, 4.09 (34-43) Replace ACP DM with 8" & 12" DI FM from SW108 Pl/SW177 St to SW95 Ave/SW163 St.																																
Pre-Design			338	21-Oct-15 A	23-Sep-16 A	23-Sep-16 A, Pre-Design																																
CT22370	Pre-Design - 4.09 (34-43)	339	21-Oct-15 A	23-Sep-16 A	Pre-Design - 4.09 (34-43)																																	
Engineering Design			451	23-Sep-16 A	05-Feb-18	05-Feb-18, Engineering Design																																
CT37880	30% Design Submittal - 4.09 (34-43)	90	23-Sep-16 A	21-Dec-16 A	30% Design Submittal - 4.09 (34-43)																																	
CT50430	30% Design Review - 4.09 (34-43)	37	22-Dec-16 A	27-Jan-17 A	30% Design Review - 4.09 (34-43)																																	
CT37890	60% Design Submittal - 4.09 (34-43)	39	28-Jan-17 A	07-Mar-17 A	60% Design Submittal - 4.09 (34-43)																																	
CT50440	60% Design Review - 4.09 (34-43)	48	08-Mar-17 A	24-Apr-17 A	60% Design Review - 4.09 (34-43)																																	
CT37900	90% Design Submittal - 4.09 (34-43)	39	25-Apr-17 A	02-Jun-17 A	90% Design Submittal - 4.09 (34-43)																																	
CT50320	90% Design Review - 4.09 (34-43)	138	05-Jun-17 A	20-Oct-17 A	90% Design Review - 4.09 (34-43)																																	
CT12951	Engineering Design - 4.09 (34-43)	420	23-Sep-16 A	05-Feb-18	Engineering Design - 4.09 (34-43)																																	
CT80510	100% Design/Permit Ready Submittal - 4.09 (34-43)	27	21-Oct-17 A	05-Feb-18	100% Design/Permit Ready Submittal - 4.09 (34-43)																																	
Permitting			301	26-May-17 A	22-Mar-18	22-Mar-18, Permitting																																
CT50560	Municipality Permit - 4.09 (34-43)	220	26-May-17 A	31-Dec-17	Municipality Permit - 4.09 (34-43)																																	
CT12961	Permitting - 4.09 (34-43)	220	26-May-17 A	22-Mar-18	Permitting - 4.09 (34-43)																																	
CT50550	RER (DERM) Permit - 4.09 (34-43)	45	06-Feb-18	22-Mar-18	RER (DERM) Permit - 4.09 (34-43)																																	
Procurement			213	13-Feb-18	13-Sep-18	13-Sep-18, Procurement																																
CT80190	Internal Bid Package Review - 4.09 (34-43)	3	13-Feb-18*	15-Feb-18	Internal Bid Package Review - 4.09 (34-43)																																	
CT36180	Design Documents Sent to Procurement - 4.09 (34-43)	0	16-Feb-18		Design Documents Sent to Procurement - 4.09 (34-43)																																	
CT36190	Submit/Approve SBD Goals and Request to Advertise - 4.09 (34-43)	45	16-Feb-18	01-Apr-18	Submit/Approve SBD Goals and Request to Advertise - 4.09 (34-43)																																	
CT36200	Advertise Bid Package - 4.09 (34-43)	0	02-Apr-18		Advertise Bid Package - 4.09 (34-43)																																	
CT36210	Bid Solicitation Period - 4.09 (34-43)	45	02-Apr-18	16-May-18	Bid Solicitation Period - 4.09 (34-43)																																	
CT36220	Bids Due - 4.09 (34-43)	0	17-May-18		Bids Due - 4.09 (34-43)																																	
CT36230	Bid Review Period - 4.09 (34-43)	30	17-May-18	15-Jun-18	Bid Review Period - 4.09 (34-43)																																	
CT36240	Award Recommendation - 4.09 (34-43)	0		15-Jun-18	Award Recommendation - 4.09 (34-43)																																	
CT12971	Procurement - 4.09 (34-43)	210	16-Feb-18	13-Sep-18	Procurement - 4.09 (34-43)																																	
CT36250	Final Approvals - 4.09 (34-43)	90	16-Jun-18	13-Sep-18	Final Approvals - 4.09 (34-43)																																	
Construction			440	14-Sep-18	27-Nov-19	27-Nov-19, Construction																																
CT36260	Contractor Notice to Proceed (NTP) - 4.09 (34-43)	0	14-Sep-18		Contractor Notice to Proceed (NTP) - 4.09 (34-43)																																	
CT12981	Construction - 4.09 (34-43)	350	14-Sep-18	29-Aug-19	Construction - 4.09 (34-43)																																	
CT12991	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (34-43)	0		29-Aug-19*	Substantial Completion (CD Compliance Date 10/08/19) - 4.09 (34-43)																																	
CT40570	Project Closeout - 4.09 (34-43)	90	30-Aug-19	27-Nov-19*	Project Closeout - 4.09 (34-43)																																	
Project Administration			1005	23-Sep-16 A	27-Nov-19	27-Nov-19, Project Administration																																
CT38250	WASD Project Administration - 4.09 (34-43)	1005	23-Sep-16 A	27-Nov-19	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.			1469	03-Jun-15 A	10-Jun-19	10-Jun-19, 4.09 (46) Replacement of 157 LF of 6" ACP FM from SW107th Ct/155th St to SW 107th Ave./155th St.																																
Pre-Design			478	03-Jun-15 A	23-Sep-16 A	23-Sep-16 A, Pre-Design																																
CT22400	Pre-Design - 4.09 (46)	479	03-Jun-15 A	23-Sep-16 A	Pre-Design - 4.09 (46)																																	
Engineering Design			462	23-Sep-16 A	05-Feb-18	05-Feb-18, Engineering Design																																
CT37910	30% Design Submittal - 4.9 (46)	90	23-Sep-16 A	21-Dec-16 A	30% Design Submittal - 4.9 (46)																																	
CT50450	30% Design Review - 4.09 (46)	37	22-Dec-16 A	27-Jan-17 A	30% Design Review - 4.09 (46)																																	
CT37920	60% Design Submittal - 4.09 (46)	39	28-Jan-17 A	07-Mar-17 A	60% Design Submittal - 4.09 (46)																																	
CT50460	60% Design Review - 4.09 (46)	48	08-Mar-17 A	24-Apr-17 A	60% Design Review - 4.09 (46)																																	
CT37930	90% Design Submittal - 4.09 (46)	42	25-Apr-17 A	05-Jun-17 A	90% Design Submittal - 4.09 (46)																																	
CT50470	90% Design Review - 4.09 (46)	148	06-Jun-17 A	20-Oct-17 A	90% Design Review - 4.09 (46)																																	
CT13101	Engineering Design - 4.09 (46)	431	23-Sep-16 A	05-Feb-18	Engineering Design - 4.09 (46)																																	
CT80520	100% Design/Permit Ready Submittal - 4.09 (46)	27	21-Oct-17 A	05-Feb-18	100% Design/Permit Ready Submittal - 4.09 (46)																																	
Permitting			90	10-Mar-17 A	06-May-18	06-May-18, Permitting																																
CT50580	Public Works Permit - 4.09 (46)	90	10-Mar-17 A	11-Apr-17 A	Public Works Permit - 4.09 (46)																																	
CT13111	Permitting - 4.09 (46)	90	10-Mar-17 A	06-May-18	Permitting - 4.09 (46)																																	
CT50570	RER (DERM) Permit - 4.09 (46)	90	06-Feb-18	06-May-18	RER (DERM) Permit - 4.09 (46)																																	
Procurement			395	15-Aug-17 A	13-Sep-18	13-Sep-18, Procurement																																
CT80310	GMOU submittal and approval - 4.09 (46)	22	15-Aug-17 A	05-Sep-17 A	GMOU submittal and approval - 4.09 (46)																																	
CT80200	Internal Bid Package Review - 4.09 (46)	3	13-Feb-18*	15-Feb-18	Internal Bid Package Review - 4.09 (46)																																	
CT36270	Design Documents Sent to Procurement - 4.09 (46)	0	16-Feb-18		Design Documents Sent to Procurement - 4.09 (46)																																	
CT36280	Submit/Approve SBD Goals and Request to Advertise - 4.09 (46)	45	16-Feb-18	01-Apr-18	Submit/Approve SBD Goals and Request to Advertise - 4.09 (46)																																	
CT36290	Advertise Bid Package - 4.09 (46)	0	02-Apr-18		Advertise Bid Package - 4.09 (46)																																	
CT36300	Bid Solicitation Period - 4.09 (46)	45	02-Apr-18	16-May-18	Bid Solicitation Period - 4.09 (46)																																	

WASD Consent Decree Schedule - December 2017 Update			Standard Layout w Baseline (By Phase)												15-Jan-18 13:31 - Page No. 56 of 77																							
Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
Project Administration					1103				06-Oct-14 A				31-Mar-18				31-Mar-18, Project Administration																					
CT38170 WASD Project Administration - 4.09 (68)					1103				06-Oct-14 A				31-Mar-18				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				31-Jan-18				31-Jan-18, 4.09 (69) Replacement of 2,320 LF of 12" ACP FM from PS#0333 South to Miami Lakes Dr.																					
Pre-Design					318				16-Jun-14 A				30-Apr-15 A																									
CT22590 Pre-Design - 4.09 (69)					319				16-Jun-14 A				30-Apr-15 A																									
Engineering Design					105				01-May-15 A				14-Aug-15 A																									
CT37480 30% Design Submittal - 4.09 (69)					29				01-May-15 A				29-May-15 A																									
CT37490 60% Design Submittal - 4.09 (69)					33				01-Jun-15 A				03-Jul-15 A																									
CT37500 90% Design Submittal - 4.09 (69)					40				06-Jul-15 A				14-Aug-15 A																									
CT13951 Engineering Design - 4.09 (69)					105				01-May-15 A				14-Aug-15 A																									
Permitting					91				19-Oct-15 A				18-Jan-16 A																									
CT13961 Permitting - 4.09 (69)					92				19-Oct-15 A				18-Jan-16 A																									
Procurement					121				19-Jan-16 A				19-May-16 A																									
CT37080 Design Documents Sent to Procurement - 4.09 (69)					0				19-Jan-16 A																													
CT37090 Submit/Approve SBD Goals and Request to Advertise - 4.09 (69)					48				19-Jan-16 A				06-Mar-16 A																									
CT37100 Advertise Bid Package - 4.09 (69)					0				07-Mar-16 A																													
CT37110 Bid Solicitation Period - 4.09 (69)					30				07-Mar-16 A				05-Apr-16 A																									
CT37120 Bids Due - 4.09 (69)					0				06-Apr-16 A																													
CT37130 Bid Review Period - 4.09 (69)					6				06-Apr-16 A				11-Apr-16 A																									
CT37140 Award Recommendation - 4.09 (69)					0								11-Apr-16 A																									
CT13971 Procurement - 4.09 (69)					122				19-Jan-16 A				19-May-16 A																									
CT37150 Final Approvals - 4.09 (69)					38				12-Apr-16 A				19-May-16 A																									
Construction					470				18-Jul-16 A				31-Jan-18																									
CT37160 Contractor Notice to Proceed (NTP) - 4.09 (69)					0				18-Jul-16 A																													
CT13981 Construction - 4.09 (69)					102				18-Jul-16 A				27-Oct-16 A																									
CT13991 Substantial Completion (Non-Consent Decree) - 4.09 (69)					0								27-Oct-16 A																									
CT40700 Project Closeout - 4.09 (69)					368				28-Oct-16 A				31-Jan-18*																									
Project Administration					694				01-May-15 A				25-Mar-17 A																									
CT38150 WASD Project Administration - 4.09 (69)					695				01-May-15 A				25-Mar-17 A																									
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																									
Pre-Design					407				13-Sep-14 A				25-Oct-15 A																									
CT20000 Pre-Design - 4.09 (70)					44				13-Sep-14 A				26-Oct-14 A																									
CT33000 Pre-Design (Revised Project Scope) - 4.09 (70)					119				29-Jun-15 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																									
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					1473				01-Nov-14 A				12-Nov-18																									
Pre-Design					90				01-Nov-14 A				30-Jan-15 A																									
CT22550 Pre-Design - 4.09 (71)					91				01-Nov-14 A				30-Jan-15 A																									
Engineering Design					442				02-Feb-15 A				19-Apr-16 A																									
CT14051 Engineering Design - 4.09 (71)					443				02-Feb-15 A				19-Apr-16 A																									
Permitting					100				19-Apr-16 A				28-Jul-16 A																									
CT50410 DERM Permit - 4.09 (71)					20				20-Apr-16 A				09-May-16 A																									
CT14061 Permitting - 4.09 (71)					101				19-Apr-16 A				28-Jul-16 A																									
CT50420 Public Works Permit (City of Miami Gardens) - 4.09 (71)					100				20-Apr-16 A				28-Jul-16 A																									
Procurement					373				09-Feb-17 A				16-Jan-18																									
CT80390 GMOU Submittal and Approval - 4.09 (71)					21				09-Feb-17 A				01-Mar-17 A																									
CT80400 Internal Bid Package Review - 4.09 (71)					5				17-May-17 A				21-May-17 A																									
CT37170 Design Documents Sent to Procurement - 4.09 (71)					0				22-May-17 A																													
CT37180 Submit/Approve SBD Goals and Request to Advertise - 4.09 (71)					10				22-May-17 A				31-May-17 A																									
CT37190 Advertise Bid Package - 4.09 (71)					0				01-Jun-17 A																													
CT37200 Bid Solicitation Period - 4.09 (71)					55				01-Jun-17 A				25-Jul-17 A																									
CT37210 Bids Due - 4.09 (71)					0				26-Jul-17 A																													
CT37220 Bid Review Period - 4.09 (71)					97				26-Jul-17 A				15-Dec-17 A																									
CT37230 Award Recommendation - 4.09 (71)					0								15-Dec-17 A																									
CT14071 Procurement - 4.09 (71)					192				22-May-17 A				16-Jan-18																									
CT37240 Final Approvals - 4.09 (71)					30				16-Dec-17 A				16-Jan-18																									
Construction					300				17-Jan-18				12-Nov-18																									
CT37250 Contractor Notice to Proceed (NTP) - 4.09 (71)					0				17-Jan-18																													
CT14081 Construction - 4.09 (71)					210				17-Jan-18				14-Aug-18																									
CT14091 Substantial Completion (Non-Consent Decree) - 4.09 (71)					0								14-Aug-18*																									
CT40720 Project Closeout - 4.09 (71)					90				15-Aug-18				12-Nov-18*																									
Project Administration					1332				02-Feb-15 A				12-Nov-18																									
CT38140 WASD Project Administration - 4.09 (71)					1332				02-Feb-15 A				12-Nov-18																									
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																									
Engineering Design					0				18-Jul-16 A				18-Jul-16 A																									

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Activity ID	Activity Name		Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
						Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
CT37720	Bids Due - Rehab Existing 48" FM East of Opa Locka Airport		0	20-Oct-16 A																																			
CT37730	Bid Review Period - Rehab Existing 48" FM East of Opa Locka Airport		32	20-Oct-16 A	20-Nov-16 A																																		
CT37740	Award Recommendation - Rehab Existing 48" FM East of Opa Locka Airport		0		21-Nov-16 A																																		
CT37690	Procurement - Rehab Existing 48" FM East of Opa Locka Airport		228	06-May-16 A	19-Dec-16 A																																		
CT37750	Final Approvals (BCC, Mayor, Risk Mgmt.) - Rehab Existing 48" FM East of Opa Locka Airport		28	22-Nov-16 A	19-Dec-16 A																																		
Construction			415	21-Dec-16 A	25-Jan-18																																		
CT37760	Contractor Notice to Proceed (NTP) - Rehab Existing 48" FM East of Opa Locka Airport		0	21-Dec-16 A																																			
CT37770	Construction - Rehab Existing 48" FM East of Opa Locka Airport		311	21-Dec-16 A	27-Oct-17 A																																		
CT37780	Substantial Completion (CD Compliance Date 1/28/18) - Rehab Existing 48" FM East of Opa Locka Airport		0		27-Oct-17 A																																		
CT40750	Project Closeout - Rehab Existing 48" FM East of Opa Locka Airport		90	28-Oct-17 A	25-Jan-18*																																		
Project Administration			774	14-Dec-15 A	25-Jan-18																																		
CT35381	WASD Project Administration - Rehab Existing 48" FM East of Opa Locka Airport		774	14-Dec-15 A	25-Jan-18																																		
4.10 (2) Opa-Locka Airport 48" PCCP Force Main Replacement (Sections 1 and 2)			1229	17-Dec-14 A	28-Apr-18																																		
Pre-Design			54	01-May-15 A	24-Jun-15 A																																		
CT22150	Negotiate Scope and Fee for Remaining Design - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		55	01-May-15 A	24-Jun-15 A																																		
Engineering Design			505	17-Dec-14 A	05-May-16 A																																		
CT22140	Basis of Design Report (BODR) - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		184	17-Dec-14 A	18-Jun-15 A																																		
CT22160	30% Design Submittal - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		47	25-Jun-15 A	10-Aug-15 A																																		
CT22170	30% Design Review - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		8	11-Aug-15 A	18-Aug-15 A																																		
CT22180	60% Design Submittal - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		91	15-Aug-15 A	13-Nov-15 A																																		
CT22780	60% Design Review - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		7	14-Nov-15 A	20-Nov-15 A																																		
CT22210	100% Design Submittal - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		124	21-Nov-15 A	23-Mar-16 A																																		
CT37540	Engineering Design - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		506	17-Dec-14 A	05-May-16 A																																		
Permitting			320	30-Jul-15 A	14-Jun-16 A																																		
CT50240	RER (DERM) / FDEP Permit - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		13	31-Mar-16 A	12-Apr-16 A																																		
CT37550	Permitting - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		321	30-Jul-15 A	14-Jun-16 A																																		
CT50250	FAA Permit - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		321	30-Jul-15 A	14-Jun-16 A																																		
Procurement			145	04-May-16 A	26-Sep-16 A																																		
CT33101	Design Documents Sent to Procurement - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		0	04-May-16 A																																			
CT33111	Submit/Approve SBD Goals and Request to Advertise - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		24	04-May-16 A	27-May-16 A																																		
CT33121	Advertise Bid Package - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		0	16-Jun-16 A																																			
CT33131	Bid Solicitation Period - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		53	16-Jun-16 A	07-Aug-16 A																																		
CT33141	Bids Due - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		0	08-Aug-16 A																																			
CT33151	Bid Review Period - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		15	08-Aug-16 A	22-Aug-16 A																																		
CT33161	Award Recommendation - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		0		22-Aug-16 A																																		
CT37580	Procurement - Replace 48" PCCP FM @ Opa-Locka Airport (Sections 1 & 2)		146	04-May-16 A	26-Sep-16 A																																		

WASD Consent Decree Schedule - December 2017 Update			Standard Layout w Baseline (By Phase)												15-Jan-18 13:31 - Page No. 60 of 77																							
Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
Construction					755				03-Jan-17 A				27-Jan-19				27-Jan-19, Construction																					
PS32930	Contractor Notice to Proceed (NTP) - Upgrade PS#0691	0	03-Jan-17 A						◆ Contractor Notice to Proceed (NTP) - Upgrade PS#0691																													
PS51610	EPA Start Date for Construction - Upgrade PS#0691	0	04-Dec-17 A						◆ EPA Start Date for Construction - Upgrade PS#0691																													
PS10650	Construction (City of Homestead) - Upgrade PS#0691	394	03-Jan-17 A	31-Jan-18													Construction (City of Homestead) - Upgrade PS#0691																					
PS10850	Substantial Completion (CD Compliance Date 1/27/19) - Upgrade PS#0691	0		31-Jan-18*																																		
PS40780	Project Closeout - Upgrade PS#0691	90	01-Feb-18	01-May-18*									◆ Substantial Completion (CD Compliance Date 1/27/19) - Upgrade PS#0691																									
PS50890	EPA Compliance Date for Construction - Upgrade PS#0691	0		27-Jan-19*									◆ EPA Compliance Date for Construction - Upgrade PS#0691																									
Project Administration					1253				26-Nov-14 A				01-May-18				01-May-18, Project Administration																					
PS35350	WASD Project Administration - Upgrade PS#0691	1253	26-Nov-14 A	01-May-18													WASD Project Administration - Upgrade PS#0691																					
5.03 Upgrade of PS#0692					1870				04-Aug-14 A				16-Sep-19				16-Sep-19, 5.03 Upgrade of PS#0692																					
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																																		
Engineering Design					713				26-Nov-14 A				08-Nov-16 A				08-Nov-16 A, Engineering Design																					
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													Basis of Design Report (BODR) - Upgrade PS#0692																					
PS20120	BODR Review Period - Upgrade PS#0692	68	03-Aug-15 A	09-Oct-15 A													BODR Review Period - Upgrade PS#0692																					
PS31370	Negotiate Scope & Fee of Remaining Design - Upgrade PS#0692	277	21-Aug-15 A	23-May-16 A													Negotiate Scope & Fee of Remaining Design - Upgrade PS#0692																					
PS32110	60% Design Submittal - Upgrade PS#0692	99	24-May-16 A	30-Aug-16 A													60% Design Submittal - Upgrade PS#0692																					
PS32120	60% Design Review - Upgrade PS#0692	7	31-Aug-16 A	06-Sep-16 A													60% Design Review - Upgrade PS#0692																					
PS10140	Engineering Design - Upgrade PS#0692	714	26-Nov-14 A	08-Nov-16 A													Engineering Design - Upgrade PS#0692																					
PS20150	100% Design Submittal - Upgrade PS#0692	63	07-Sep-16 A	08-Nov-16 A													100% Design Submittal - Upgrade PS#0692																					
Permitting					1177				10-Aug-14 A				02-Oct-17 A				02-Oct-17 A, Permitting																					
PS51630	EPA Start Date for Permitting - Upgrade PS#0692**	0	10-Aug-14 A														EPA Start Date for Permitting - Upgrade PS#0692**																					
PS50700	RER/DERM Permit - Upgrade PS#0692	191	08-Nov-16 A	17-May-17 A													RER/DERM Permit - Upgrade PS#0692																					
PS50910	EPA Compliance Date for Permitting - Upgrade PS#0692**	0		30-Aug-17 A													EPA Compliance Date for Permitting - Upgrade PS#0692**																					
PS10300	Permitting - Upgrade PS#0692	356	08-Nov-16 A	02-Oct-17 A													Permitting - Upgrade PS#0692																					
PS72000	Building Dept Permit - Upgrade PS#0692	166	17-May-17 A	02-Oct-17 A													Building Dept Permit - Upgrade PS#0692																					
Procurement					455				14-Feb-17 A				14-May-18				14-May-18, Procurement																					
PS71930	GMOU Submittal and Approval - Upgrade PS#0692	20	14-Feb-17 A	05-Mar-17 A													GMOU Submittal and Approval - Upgrade PS#0692																					
PS41080	Pre-Purchase Bid Package (Pumps & Valves) - PS#0692	9	23-Mar-17 A	31-Mar-17 A													Pre-Purchase Bid Package (Pumps & Valves) - PS#0692																					
PS41090	Advertise Pre-Purchase (Pumps & Valves) - PS#0692	0	03-Apr-17 A														Advertise Pre-Purchase (Pumps & Valves) - PS#0692																					
PS41100	Vendor Bid & Award (Pumps & Valves) - PS#0692	18	03-Apr-17 A	20-Apr-17 A													Vendor Bid & Award (Pumps & Valves) - PS#0692																					
PS71850	Internal Bid Package Review - Upgrade PS#0692	3	01-Aug-17 A	03-Aug-17 A													Internal Bid Package Review - Upgrade PS#0692																					
PS32940	Design Documents Sent to Procurement - Upgrade PS#0692	0	04-Aug-17 A														Design Documents Sent to Procurement - Upgrade PS#0692																					
PS51640	EPA Start Date for Procurement - Upgrade PS#0692	0	01-Sep-17 A														EPA Start Date for Procurement - Upgrade PS#0692																					
PS50920	EPA Compliance Date for Procurement - Upgrade PS#0692	0		05-Oct-17 A													EPA Compliance Date for Procurement - Upgrade PS#0692																					
PS32950	Submit/Approve SBD Goals and Request to Advertise - Upgrade PS#0692	70	04-Aug-17 A	28-Jan-18													Submit/Approve SBD Goals and Request to Advertise - Upgrade PS#0692																					
PS32960	Advertise Bid Package - Upgrade PS#0692	0	29-Jan-18														Advertise Bid Package - Upgrade PS#0692																					
PS32970	Bid Solicitation Period - Upgrade PS#0692	45	29-Jan-18	14-Mar-18													Bid Solicitation Period - Upgrade PS#0692																					
PS32980	Bids Due - Upgrade PS#0692	0	15-Mar-18														Bids Due - Upgrade PS#0692																					
PS41070	Pre-Purchase Pumps & Valves - PS#0692	360	23-Mar-17 A	17-Mar-18													Pre-Purchase Pumps & Valves - PS#0692																					
PS41110	Fabricate & Deliver Pumps & Valves - PS#0692	331	21-Apr-17 A	17-Mar-18													Fabricate & Deliver Pumps & Valves - PS#0692																					
PS32990	Bid Review Period - Upgrade PS#0692	30	15-Mar-18	13-Apr-18													Bid Review Period - Upgrade PS#0692																					
PS33000	Award Recommendation - Upgrade PS#0692	0		13-Apr-18													Award Recommendation - Upgrade PS#0692																					
PS10470	Procurement - Upgrade PS#0692	175	04-Aug-17 A	14-May-18													Procurement - Upgrade PS#0692																					
PS33010	Final Approvals (BCC, Mayor, Risk Mgmt.) - Upgrade PS#0692	31	14-Apr-18	14-May-18													Final Approvals (BCC, Mayor, Risk Mgmt.) - Upgrade PS#0692																					
Construction					686				06-Oct-17 A				16-Sep-19				16-Sep-19, Construction																					
PS51650	EPA Start Date for Construction - Upgrade PS#0692	0	06-Oct-17 A														EPA Start Date for Construction - Upgrade PS#0692																					
PS33020	Contractor Notice to Proceed (NTP) - Upgrade PS#0692	0	15-May-18														Contractor Notice to Proceed (NTP) - Upgrade PS#0692																					
PS50930	EPA Compliance Date for Construction - Upgrade PS#0692	0		27-Jan-19*													EPA Compliance Date for Construction - Upgrade PS#0692																					
PS10670	Construction - Upgrade PS#0692	400	15-May-18	18-Jun-19													Construction - Upgrade PS#0692																					
PS10860	Substantial Completion (CD Compliance Date 1/27/19) - Upgrade PS#0692	0		18-Jun-19*													Substantial Completion (CD Compliance Date 1/27/19) - Upgrade PS#0692																					
PS40790	Project Closeout - Upgrade PS#0692	90	19-Jun-19	16-Sep-19*													Project Closeout - Upgrade PS#0692																					
Project Administration					1647				26-Nov-14 A				16-Sep-19				16-Sep-19, Project Administration																					
PS35340	WASD Project Administration - Upgrade PS#0692	1647	26-Nov-14 A	16-Sep-19													WASD Project Administration - Upgrade PS#0692																					
5.04 Replacement of Switchgear PS#0414					1503				07-Oct-14 A				17-Nov-18				17-Nov-18, 5.04 Replacement of Switchgear PS#0414																					
Pre-Design					112				17-Oct-14 A				06-Feb-15 A				17-Oct-14 A, Pre-Design																					
PS20240	Pre-Design - PS#0414	113	17-Oct-14 A	06-Feb-15 A																																		
Engineering Design					540				07-Oct-14 A				30-Mar-16 A				30-Mar-16 A, Engineering Design																					
PS51660	EPA Start Date for Engineering Design - PS#0414**	0	07-Oct-14 A														EPA Start Date for Engineering Design - PS#0414**																					
PS50940	EPA Compliance Date for Engineering Design - PS#0414**	0		13-May-15 A													EPA Compliance Date for Engineering Design - PS#0414**																					
PS20001	Basis of Design Report (BODR) - PS#0414	114	09-Feb-15 A	02-Jun-15 A													Basis of Design Report (BODR) - PS#0414																					
PS20011	BODR Review Period - PS#0414	34	03-Jun-15 A	06-Jul-15 A													BODR Review Period - PS#0414																					
PS31250	Negotiate Scope & Fee of Remaining Design - PS#0414	153	08-Jul-15 A	07-Dec-15 A													Negotiate Scope & Fee of Remaining Design - PS#0414																					
PS20021	30% Design Submittal - PS#0414	74	29-Sep-15 A	11-Dec-15 A													30% Design Submittal - PS#0414																					
PS20031	30% Design Review - PS#0414	12	12-Dec-15 A	23-Dec-15 A													30% Design Review - PS#0414																					
PS20041	60% Design Submittal - PS#0414	47	24-Dec-15 A	08-Feb-16 A													60% Design Submittal - PS#0414																					
PS20051	60% Design Review - PS#0414	22	08-Feb-16 A	29-Feb-16 A													60% Design Review - PS#0414																					

Activity ID	Activity Name	Original Duration	Start	Finish
Engineering Design				
PS51900	EPA Start Date for Engineering Design - Upgrade PS#0488**	298	07-Oct-14 A	01-Aug-15 A
PS51250	EPA Compliance Date for Engineering Design - Upgrade PS#0488**	0	07-Oct-14 A	13-May-15 A
PS31320	30% Design Submittal - Upgrade PS#0488	67	03-Apr-15 A	08-Jun-15 A
PS31330	30% Design Review -Upgrade PS#0488	14	09-Jun-15 A	22-Jun-15 A
PS30950	60% Design Submittal - Upgrade PS#0488	24	23-Jun-15 A	16-Jul-15 A
PS30960	60% Design Review -Upgrade PS#0488	7	17-Jul-15 A	23-Jul-15 A
PS30970	100% Design Submittal - Upgrade PS#0488	9	24-Jul-15 A	01-Aug-15 A
PS10090	Engineering Design - Upgrade PS#0488	120	03-Apr-15 A	01-Aug-15 A
Permitting				
PS51910	EPA Start Date for Permitting - Upgrade PS#0488**	401	14-May-15 A	18-Jun-16 A
PS10240	Permitting - Upgrade PS#0488	93	17-Aug-15 A	17-Nov-15 A
PS51240	EPA Compliance Date for Permitting - Upgrade PS#0488	0		18-Jun-16 A
Procurement				
PS51920	EPA Start Date for Procurement - Upgrade PS#0488**	646	08-Jun-15 A	15-Mar-17 A
PS32200	Design Documents Sent to Procurement - Upgrade PS#0488	0	08-Jun-15 A	
PS32210	Submit/Approve SBD Goals and Request to Advertise - Upgrade PS#0488	0	18-Nov-15 A	
PS32220	Advertise Bid Package - Upgrade PS#0488	61	18-Nov-15 A	17-Jan-16 A
PS32230	Advertise Bid Package - Upgrade PS#0488	0	18-Jan-16 A	
PS32230	Bid Solicitation Period - Upgrade PS#0488	31	18-Jan-16 A	17-Feb-16 A
PS32240	Bids Due - Upgrade PS#0488	0	18-Feb-16 A	
PS32250	Bid Review Period - Upgrade PS#0488	15	18-Feb-16 A	03-Mar-16 A
PS32260	Award Recommendation - Upgrade PS#0488	0		03-Mar-16 A
PS10410	Procurement - Upgrade PS#0488	153	18-Nov-15 A	18-Apr-16 A
PS32270	Final Approvals - Upgrade PS#0488	46	04-Mar-16 A	18-Apr-16 A
PS41690	P.O. Issued - Upgrade PS#0488	0		18-Apr-16 A
PS51230	EPA Compliance Date for Procurement - Upgrade PS#0488	0		15-Mar-17 A
Construction				
PS10595	Contractor Notice to Proceed (NTP) - Upgrade PS#0488	737	03-May-16 A	09-May-18
PS10600	Construction - Upgrade PS#0488	0	03-May-16 A	
PS10800	Substantial Completion (CD Compliance Date 5/09/18) - Upgrade PS#0488	220	03-May-16 A	08-Dec-16 A
PS51930	EPA Start Date for Construction - Upgrade PS#0488	0		08-Dec-16 A
PS40850	Project Closeout - Upgrade PS#0488	0	16-Mar-17 A	
PS51220	EPA Compliance Date for Construction - Upgrade PS#0488	305	09-Dec-16 A	20-Jan-18*
PS51220	EPA Compliance Date for Construction - Upgrade PS#0488	0		09-May-18*
Project Administration				
PS35270	WASD Project Administration - Upgrade PS#0488	921	03-Apr-15 A	20-Jan-18
PS35270	WASD Project Administration - Upgrade PS#0488	921	03-Apr-15 A	20-Jan-18
5.11 Installation of 48 inch FM from Kendall Dr. to the Suction Side of PS#0536				
Pre-Design				
PS20160	Negotiate Balance of Design Scope & Fee (HDR) - Install 60" FM from Kendal Dr. to PS#0536	136	31-Jul-15 A	14-Dec-15 A
PS20160	Negotiate Balance of Design Scope & Fee (HDR) - Install 60" FM from Kendal Dr. to PS#0536	137	31-Jul-15 A	14-Dec-15 A
Engineering Design				
PS51940	EPA Start Date for Engineering Design - Install 60" FM from Kendal Dr. to PS#0536**	647	07-Oct-14 A	15-Jul-16 A
PS51210	EPA Compliance Date for Engineering Design - Install 60" FM from Kendal Dr. to PS#0536**	0	07-Oct-14 A	
PS20170	Basis of Design Report (BODR) - Install 60" FM from Kendal Dr. to PS#0536	0		13-May-15 A
PS20210	60% Design Submittal - Install 60" FM from Kendal Dr. to PS#0536	220	17-Dec-14 A	24-Jul-15 A
PS31340	60% Design Review - Install 60" FM from Kendal Dr. to PS#0536	133	16-Dec-15 A	26-Apr-16 A
PS10060	Engineering Design - Install 60" FM from Kendal Dr. to PS#0536	7	27-Apr-16 A	03-May-16 A
PS20230	Engineering Design - Install 60" FM from Kendal Dr. to PS#0536	524	17-Dec-14 A	23-May-16 A
PS20230	90% Design Submittal - Install 60" FM from Kendal Dr. to PS#0536	73	04-May-16 A	15-Jul-16 A
Permitting				
PS51950	EPA Start Date for Permitting - Install 60" FM from Kendal Dr. to PS#0536**	687	14-May-15 A	31-Mar-17 A
PS10210	Permitting - Install 60" FM from Kendal Dr. to PS#0536	0	14-May-15 A	
PS10210	Permitting - Install 60" FM from Kendal Dr. to PS#0536	178	31-Aug-16 A	24-Feb-17 A
PS51200	EPA Compliance Date for Permitting - Install 60" FM from Kendal Dr. to PS#0536	0		31-Mar-17 A
Procurement				
PS51960	EPA Start Date for Procurement - Install 60" FM from Kendal Dr. to PS#0536**	816	08-Jun-15 A	31-Aug-17 A
PS72030	GMOU Submittal and Approval - Install 60" FM from Kendal Dr. to PS#0536	0	08-Jun-15 A	
PS72040	Internal Bid Package Review - Install 60" FM from Kendal Dr. to PS#0536	23	29-Nov-16 A	21-Dec-16 A
PS33120	Design Documents Sent to Procurement - Install 60" FM from Kendal Dr. to PS#0536	4	03-Apr-17 A	06-Apr-17 A
PS33130	Submit/Approve SBD Goals and Request to Advertise - Install 60" FM from Kendal Dr. to PS#0536	0	07-Apr-17 A	
PS33140	Advertise Bid Package - Install 60" FM from Kendal Dr. to PS#0536	17	07-Apr-17 A	23-Apr-17 A
PS33150	Advertise Bid Package - Install 60" FM from Kendal Dr. to PS#0536	0	24-Apr-17 A	
PS33160	Bid Solicitation Period - Install 60" FM from Kendal Dr. to PS#0536	52	24-Apr-17 A	14-Jun-17 A
PS33170	Bids Due - Install 60" FM from Kendal Dr. to PS#0536	0	15-Jun-17 A	
PS33180	Bid Review Period - Install 60" FM from Kendal Dr. to PS#0536	37	15-Jun-17 A	21-Jul-17 A
PS33190	Award Recommendation - Install 60" FM from Kendal Dr. to PS#0536	0		21-Jul-17 A

WASD Consent Decree Schedule - December 2017 Update			Standard Layout w Baseline (By Phase)												15-Jan-18 13:31 - Page No. 76 of 77																													
Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024							
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2										
Project Administration					712				28-Mar-17 A				15-Jun-19																															
PS35100	WASD Project Administration - PS#0852 Compliance Project	712	28-Mar-17 A	15-Jun-19																																								
5.18 (6) Pump Station 1236 Compliance Project					968				01-May-17 A				25-Dec-19																															
Pre-Design					62				31-Dec-17				02-Mar-18																															
PS20460	Pre-Design - PS#1236 Compliance Project (Non-CD Phase II)	62	31-Dec-17*	02-Mar-18																																								
Engineering Design					90				03-Mar-18				31-May-18																															
PS13202	Engineering Design - PS#1236 Compliance Project (Non-CD Phase II)	90	03-Mar-18	31-May-18																																								
Permitting					90				01-Jun-18				29-Aug-18																															
PS13212	Permitting - PS#1236 Compliance Project (Non-CD Phase II)	90	01-Jun-18	29-Aug-18																																								
Procurement					123				30-Aug-18				30-Dec-18																															
PS71910	Internal Bid Package Review - PS#1236 Compliance Project (Non-CD Phase II)	3	30-Aug-18	01-Sep-18																																								
PS34830	Design Documents Sent to Procurement - PS#1236 Compliance Project (Non-CD Phase II)	0	02-Sep-18																																									
PS34840	Submit/Approve SBD Goals and Request to Advertise - PS#1236 Compliance Project (Non-CD Phase II)	30	02-Sep-18	01-Oct-18																																								
PS34850	Advertise Bid Package - PS#1236 Compliance Project (Non-CD Phase II)	0	02-Oct-18																																									
PS34860	Bid Solicitation Period - PS#1236 Compliance Project (Non-CD Phase II)	45	02-Oct-18	15-Nov-18																																								
PS34870	Bids Due - PS#1236 Compliance Project (Non-CD Phase II)	0	16-Nov-18																																									
PS34880	Bid Review Period - PS#1236 Compliance Project (Non-CD Phase II)	15	16-Nov-18	30-Nov-18																																								
PS34890	Award Recommendation - PS#1236 Compliance Project (Non-CD Phase II)	0		30-Nov-18																																								
PS13222	Procurement - PS#1236 Compliance Project (Non-CD Phase II)	120	02-Sep-18	30-Dec-18																																								
PS34900	Final Approvals (BCC, Mayor, Risk Mgmt.) - PS#1236 Compliance Project (Non-CD Phase II)	30	01-Dec-18	30-Dec-18																																								
Construction					968				01-May-17 A				25-Dec-19																															
PS13242	Phase I Substantial Completion Inspection (CD Compliance Date 12/31/18) - PS#1236 Compliance Project	0		01-May-17 A																																								
PS34910	Phase II Contractor Notice to Proceed (NTP) - PS#1236 Compliance Project	0	31-Dec-18																																									
PS72540	Phase II Construction (Non-Consent Decree) - PS#1236 Compliance Project	270	31-Dec-18	26-Sep-19																																								
PS72550	Phase II Substantial Completion (Non-Consent Decree) - PS#1236 Compliance Project	0		26-Sep-19																																								
PS41050	Project Closeout - PS#1236 Compliance Project	90	27-Sep-19	25-Dec-19																																								
Project Administration					663				03-Mar-18				25-Dec-19																															
PS35090	WASD Project Administration - PS#1236 Compliance Project	663	03-Mar-18	25-Dec-19																																								
5.19 SCADARTU Upgrades					899				01-Oct-13 A				18-Mar-16 A																															
Construction					899				01-Oct-13 A				18-Mar-16 A																															
PS71830	EPA Start Date for Construction - PS SCADA RTU Upgrades	0	01-Oct-13 A																																									
PS10020	Construction - PS SCADARTU Upgrades	784	01-Oct-13 A	23-Nov-15 A																																								
PS10530	Substantial Completion (CD Compliance Date 3/18/16) - PS SCADARTU Upgrades	0		23-Nov-15 A																																								
PS51520	EPA Compliance Date for Construction - PS SCADA RTU Upgrades	0		18-Mar-16 A																																								
Project Administration					783				01-Oct-13 A				23-Nov-15 A																															
PS72660	WASD Project Administration - PS SCADA RTU Upgrades	784	01-Oct-13 A	23-Nov-15 A																																								
6. Supplemental Environmental Project					1634				20-Oct-14 A				08-Apr-19																															
Engineering Design					671				08-Jun-15 A				08-Apr-17 A																															
PM10000	Engineering Design - SEP	535	08-Jun-15 A	23-Nov-16 A																																								
PM10005	Compliance Milestone Achieved - SEP Design (CD Compliance Date 4/8/2017)	0		08-Apr-17 A																																								
PM50190	EPA Compliance Date for Engineering Design - SEP	0		08-Apr-17 A																																								
Construction					1212				14-Dec-15 A				08-Apr-19																															
PM50010	Construction Summary - SEP	1124	14-Dec-15 A	17-Dec-18																																								
PM10015	Substantial Completion - SEP Construction (CD Compliance Date 4/8/2019)	0		17-Dec-18*																																								
PM50200	EPA Compliance Date for Construction Summary - SEP	0		08-Apr-19*																																								
6.0 Supplemental Environmental Project (SEP)					1634				20-Oct-14 A				17-Mar-19																															
Pre-Design					230				20-Oct-14 A				07-Jun-15 A																															
PM10190	Pre-Design - SEP	231	20-Oct-14 A	07-Jun-15 A																																								
Engineering Design					534				08-Jun-15 A				23-Nov-16 A																															
PM20000	Basis of Design Report (BODR) - SEP	99	08-Jun-15 A	14-Sep-15 A																																								
PM20010	BODR Review Period - SEP	53	15-Sep-15 A	06-Nov-15 A																																								
PM21111	Negotiate Scope & Fee for Balance of Design - SEP	173	28-Aug-15 A	16-Feb-16 A																																								
PM20020	30% Design Submittal - SEP	136	17-Feb-16 A	01-Jul-16 A																																								
PM20030	30% Design Review - SEP	17	02-Jul-16 A	18-Jul-16 A																																								
PM20040	60% Design Submittal - SEP	60	19-Jul-16 A	16-Sep-16 A																																								
PM20050	60% Design Review - SEP	7	17-Sep-16 A	23-Sep-16 A																																								
PM50360	Engineering Design - SEP	535	08-Jun-15 A	23-Nov-16 A																																								
PM20060	100% Design Submittal - SEP	61	24-Sep-16 A	23-Nov-16 A																																								
Permitting					301				23-Nov-16 A				19-Sep-17 A																															
PM50170	FDOT Permit - SEP	97	23-Nov-16 A	27-Feb-17 A																																								
PM50150	RER (DERM) Permit - SEP	106	13-Jan-17 A	28-Apr-17 A																																								
PM50160	MDDTPW Permit - SEP	106	13-Jan-17 A	28-Apr-17 A																																								
PM50390	MDC Fire-Derm Permit - SEP	60	19-Jun-17 A	17-Aug-17 A																																								
PM10170	Permitting - SEP	301	23-Nov-16 A	19-Sep-17 A																																								
PM50400	FDOH Permit - SEP	33	18-Aug-17 A	19-Sep-17 A																																								
Procurement					606				01-Nov-16 A				29-Nov-17 A																															
PM50420	GMOU submittal and approval - SEP	22	08-Jun-17 A	29-Jun-17 A																																								
PM50210	Internal Bid Package Review - SEP	15	11-Jul-17 A	25-Jul-17 A																																								
PM35010	Design Documents Sent to Procurement - SEP	0	26-Jul-17 A																																									
PM35020	Request to Advertise - SEP	27	26-Jul-17 A	21-Aug-17 A																																								

WASD Consent Decree Schedule - December 2017 Update			Standard Layout w Baseline (By Phase)												15-Jan-18 13:31 - Page No. 77 of 77																							
Activity ID	Activity Name	Original Duration	Start	Finish	2016				2017				2018				2019				2020				2021				2022				2023				2024	
					Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2				
	PM35030	Advertise Bid Package - SEP	0	22-Aug-17 A																																		
	PM50430	39th Street Construction Easement - SEP	606	01-Nov-16 A																																		
	PM35040	Bid Solicitation Period - SEP	58	22-Aug-17 A																																		
	PM35050	Bids Due - SEP	0	19-Oct-17 A																																		
	PM35060	Bid Review Period - SEP	19	19-Oct-17 A																																		
	PM35070	Award Recommendation - SEP	0	25-Oct-17 A																																		
	PM10180	Procurement - SEP	134	26-Jul-17 A																																		
	PM35080	Final Approvals (BCC, Mayor, Risk Mgmt.) - SEP	30	26-Oct-17 A																																		
	PM50140	P.O. Issued - SEP	0	29-Nov-17 A																																		
	Construction		442	18-Dec-17 A																																		
	PM35090	Contractor Notice to Proceed (NTP) - SEP	0	18-Dec-17 A																																		
	PM10010	Construction - SEP	365	18-Dec-17 A																																		
	PM50560	Construction - SEP Water Supply Line (Non-Consent Decree)	365	18-Dec-17 A																																		
	PM50410	Substantial Completion (CD Compliance Date 4/8/19) - SEP	0	17-Dec-18																																		
	PM10160	SEP Completion Report to EPA	30	18-Dec-18																																		
	PM50110	Project Closeout - SEP	90	18-Dec-18																																		
	Project Administration		1403	08-Jun-15 A																																		
	PM50100	WASD Project Administration - SEP	1403	08-Jun-15 A																																		
	6.1 SEP (Early Phase Work)		848	09-Jun-15 A																																		
	Engineering Design		41	09-Jun-15 A																																		
	PM30000	Design - Early Phase SEP	42	09-Jun-15 A																																		
	Permitting		3	21-Jul-15 A																																		
	PM30010	Permitting - Early Phase SEP	3	21-Jul-15 A																																		
	Procurement		95	08-Sep-15 A																																		
	PM35100	Design Documents Sent to Procurement - Early Phase SEP	0	08-Sep-15 A																																		
	PM35110	Submit/Approve SBD Goals and Request to Advertise - Early Phase SEP	21	08-Sep-15 A																																		
	PM35120	Advertise Bid Package - Early Phase SEP	0	28-Sep-15 A																																		
	PM35130	Bid Solicitation Period - Early Phase SEP	23	28-Sep-15 A																																		
	PM35140	Bids Due - Early Phase SEP	0	21-Oct-15 A																																		
	PM35150	Bid Review Period - Early Phase SEP	9	21-Oct-15 A																																		
	PM35160	Award Recommendation - Early Phase SEP	0	29-Oct-15 A																																		
	PM35170	Final Approvals (BCC, Mayor, Risk Mgmt.) - Early Phase SEP	18	30-Oct-15 A																																		
	PM50180	P.O. Issued - Early Phase SEP	0	16-Nov-15 A																																		
	PM30020	Procurement - Contractor Bid & Award - Early Phase SEP	95	08-Sep-15 A																																		