



*The City of*  
**JACKSON**

**SEMI-ANNUAL REPORT**  
**REPORT NO. 10**

AUGUST 2017 THROUGH FEBRUARY 2018

Department of Public Works  
Consent Decree Program

Department of Public Works



200 South President Street  
Post Office Box 17  
Jackson, Mississippi 39205-0017

March 30, 2018

Chief, Environmental Enforcement Section  
Environment and National Resources Division  
U.S. Department of Justice  
Box 7611 Ben Franklin Station  
Washington, DC 20044-7611  
Re: DOJ No. 90-5-1-1-09841

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Environmental Engineer  
Clean Water Enforcement Branch  
Municipal & Industrial Enforcement Section  
U.W. EPA Region 4  
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Environmental Compliance and Enforcement Division  
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Jackson, MS 39225-2261

RE: DOJ No. 90-5-1-1-09841  
City of Jackson, Mississippi, EPA Consent Decree  
Semi-Annual Report 10

Dear Gentlemen,

Please find enclosed the Semi-Annual Report 10 submitted by the City of Jackson for your review and records. We look forward to meeting with you in Atlanta on April 18, 2018 to discuss the contents of the report and discuss how Jackson can move forward on the Program.

Please contact me directly ( [rmiller@jacksonms.gov](mailto:rmiller@jacksonms.gov); (601) 960-1178 ) should you have any. Thank you for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert K. Miller".

Robert K. Miller  
Director

Cc: Chokwe Antar Lumumba, Mayor, City of Jackson  
Sharon D. Gipson, City Attorney, City of Jackson  
Terry Williamson, Legal Counsel, City of Jackson  
Public Depository, Eudora Welty Public Library

*City of Jackson*  
*Wastewater Consent Decree Program*

**Semi-Annual Report No. 10**  
**August 2017 through February 2018**

March 31, 2018

**Prepared for:**

City of Jackson  
Department of Public Works  
P.O. Box 17  
Jackson, MS 39205-0017

**Prepared by:**

Burns & McDonnell  
308 Pearl Street, Suite 104  
Jackson, MS 39201

# City of Jackson, Mississippi

## Semi-Annual Report No. 10

### August 2017 through February 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.



*Chokwe Antar Lumumba*  
Chokwe Antar Lumumba, Mayor  
Mayor

*3/29/2018*  
Date

*Robert K. Miller*  
Robert K. Miller, Director  
Department of Public Works

*March 28, 2019*  
Date

# Semi-Annual Report No. 10

## August 2017 through February 2018

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## 1.0 Introduction

### 1.1 Overview

On March 1, 2013, the Consent Decree (CD) agreed to by the City of Jackson, Mississippi, U.S. Environmental Protection Agency (EPA), and the Mississippi Department of Environmental Quality (MDEQ) regarding the wastewater collection and treatment system was entered by the U.S. Court, Southern District of Mississippi. Over a 17½ year timeline, the Consent Decree requires the City to:

- Develop, submit, finalize, and implement plans for the continued improvement of the Wastewater Collection and Transportation System (WCTS) and Wastewater Treatment Plants (WWTPs);
- Eliminate Sanitary Sewer Overflows (SSOs), effluent limit violations (including any violations of the new effluent limits for nutrients), and reporting violations, and
- Minimize Prohibited Bypasses.

One of the ongoing requirements of the EPA Consent Decree is to submit periodic reports to demonstrate continuing compliance. The specific reporting requirements of the CD are described below.

### 1.2 Authority to Promulgate

Burns & McDonnell Engineering Company, Inc. was retained to assist the City in addressing the requirements of the Consent Decree under a Program Management contract. Accordingly, the Program Management team prepared this Semi-Annual Report with input from the City and its various contractors to fulfill the requirements of Section IX ¶ 57 (b) set forth in the CD.

### 1.3 Consent Decree Requirements for Semi-Annual Report

As stated in the Consent Decree Section IX ¶ 57 (b), the Semi-Annual Report be submitted beginning thirty (30) Days after the first full six (6)-month period following the Date of Entry of this Consent Decree, and thirty (30) Days after each subsequent six (6)-month period until termination of the Consent Decree and shall contain the following, at a minimum:

Semi-Annual Reports ...the City shall submit to EPA for review and approval a Semi-Annual Report. Each Semi-Annual Report shall include, at a minimum:

- (i) *A description of projects and activities completed and milestones achieved during the previous applicable six (6)-month period pursuant to the requirements of this Consent Decree, in Gantt chart or similar format, including a description of the status of compliance or non-compliance with the requirements of this Consent*

Decree and, if applicable, the reasons for non-compliance. If any non-compliance cannot be fully explained at the time the report is due, the City shall include a statement to that effect in the report. The City shall investigate to determine the cause of the non-compliance and then shall submit an amendment to the report, including a full explanation of the cause of the non-compliance, within thirty (30) Days after submission of the Semi-Annual Report.

- (ii) *A summary of significant projects and activities anticipated to be performed, and milestones anticipated to be achieved, in the successive applicable six (6)-month period to comply with the requirements of this Consent Decree, in Gantt chart or similar format.*
- (iii) Any additional information the City determines is appropriate to demonstrate that the City is implementing the remedial actions required under this Consent Decree in an adequate and timely manner.

#### 1.4 Compliance Statement

For the reporting period of September 1, 2017 through February 28, 2018, the City of Jackson, to the best of its knowledge, is compliant with the requirements of the Consent Decree entered on March 1, 2013, except with the late submission and not achieving full implementation of the following items:

- Semi-Annual Report 7,
- Quarterly Reports 14 and 15,
- Annual Report 4,
- Private Lateral Program,
- Gravity Line Preventive Maintenance Program.

## 2.0 Summary of Activities for the Reporting Period

The City and the Program Management Team have assessed the current situation and ongoing activities, as well as developing action plans for future required activities. These activities will be more fully discussed in Section 2.5 and in subsequent Semi-Annual Reports.

### 2.1 Wastewater Collection and Transmission System

#### 2.1.1 West Bank Interceptor Work Plan

The West Bank Interceptor Work Plan was completed and submitted to EPA on July 30, 2013 in compliance with the requirements of the Consent Decree. The City received approval from the EPA on June 17, 2014. The West Bank Rehabilitation Plan was submitted to EPA on April 17, 2016 and revised May 3, 2017 in compliance with the Consent Decree.

The Consent Decree requires rehabilitation of 20% of the West Bank Interceptor by 2022 (Phase 1). To date, 19% of the West Bank Interceptor has been fully rehabilitated with plans in place to rehabilitate a total of 50% by 2022 if funding is available.

The following work has been completed or is planned, which is on schedule with the EPA approved Work Plan:

- Three (3) segments have been completed (cleaning and rehabilitated) totaling 29,195 LF of interceptor.
- Four (4) segments are in planning totaling 28,500 LF of interceptor.
- Three (3) segments have been identified for future work totaling 3,380 LF of interceptor.

Table 1 below provides the status of implementation of the West Bank Interceptor Phase I Rehabilitation Plan. Phase 1 of this plan is ahead of the Consent Decree schedule.



**Table 1 Status of implementation of the West Bank Interceptor Phase I Rehabilitation Plan**

Project	Segment	Work Required	Length, ft.	Planned Schedule	Status
1	IT0052-IT0082	Cleaning & Rehab	14,913	Completed in 2015	Completed in 2015
2	IT0082-IT0098	Cleaning & Rehab	6,854	Completed in 2016	Completed in 2016
3	IT0098-IT0118	Cleaning & Rehab	7,428	2022	Completed August 2017
4	IT0148-IT0171	Cleaning	9,537	2022	Planning in development.
5	IT0133-IT0148	Cleaning	8,443	2022	Planning in development.
6	IT0118-IT0133	Cleaning & Rehab	5,790	2022	Planning in development.
7	IT0035-IT0043	Cleaning & Rehab	4,729	2022	Planning in development.
8	TP0002-IT0002	Cleaning	1,568	2022	Future projects.
	IT0009-IT0012	Cleaning	1,087		
	IT0028-IT0029	Cleaning	724		

**Work activities anticipated during the next reporting period:**

- No projects anticipated. Potential projects will be evaluated based on availability of sufficient revenue.

**2.1.1.1 West Bank Interceptor Flow Monitoring**

As indicated in the West Bank Interceptor Work Plan, the first activity required is to conduct sewage flow monitoring to determine the severity of I/I in various segments along the length of West Bank Interceptor. The flow metering is needed for the completion of the West Bank Interceptor Rehabilitation Plan.

**Work Activities for this period for the flow monitoring project are:**

- Continued long-term flow monitoring and data analysis at 29 sites.
- CSL Services Inc. completed I/I Analysis Draft Report for West Bank Interceptor Flow Meters.

- Appendix A provides a summary of the West Bank Interceptor Flow Meter data from September 2017 through February 2018.

**Work activities anticipated during the next reporting period:**

- Continue Long Term Flow monitoring for I/I analysis.
- Continue bi-monthly review meetings.
- Finalize I/I Analysis Draft Report for West Bank Interceptor Flow Meters.

Data generated from the flow monitoring is reviewed on a regular basis by City staff to detect any unusual occurrences. The flow metering contractor (CSL Services) also alerts the City staff if any unusual occurrences are noted between reporting periods.

**2.1.1.2 West Bank Interceptor Condition Assessment**

All condition assessment work for the entire West Bank Interceptor was completed by August 15, 2015, as reported in the approved West Bank Interceptor Rehabilitation Plan Revision 1, dated May 3, 2017.

**2.1.2 Sewershed Prioritization Work Plan**

The Consent Decree requires that within seven (7) months after the Date of Entry, the City shall submit to EPA for review and approval a Prioritization Work Plan. The Work Plan shall set forth the proposed locations selected, and proposed methodologies and criteria that the City will implement and use, to identify the severity of I/I within the WCTS, to map the Sewer System, to assess the capacity of WCTS, and to establish Sewershed priorities for further evaluation and rehabilitation of the WCTS pursuant to the Sewershed Evaluation Plan and Evaluation Report/Rehabilitation Plan. Upon approval by EPA, the City shall implement the Prioritization Work Plan.

**Work Activities for this period for the prioritization plan are:**

- The Sewershed Prioritization Report was submitted on February 17, 2017.
- The Sewershed Prioritization Report was approved on February 7, 2018.
- Completed Calibration and Verification Technical Memorandum for the 35 meters completed to date.
- Completed the 8 City Pump Station capacity assessments in 4 of 12 Group 1 sewersheds.

**Work activities anticipated during the next reporting period:**

- Incorporate the capacity assessments of pump stations in support of the hydraulic model.
- Continue rainfall, dry weather flow and wet weather flow analysis using the SSOAP toolbox for only 4 of 12 Group 1 sewersheds, pending available financing. Flow analysis for 8 remaining Group 1 sewersheds will be performed depending on available funding.
- Hydraulic model will be calibrated and verified for 8 remaining Group 1 sewersheds as funding becomes available.

2.1.3 Sewershed Evaluation Plan

The Consent Decree requires that within twelve (12) months after the Date of Entry, the City shall submit to EPA for review and approval a Sewershed Evaluation Plan that the City will implement for the Sewersheds in Sewer Groups 1 and 2 pursuant to the schedule set forth in the approved Prioritization Report. The Sewershed Evaluation Plan shall provide for the City to evaluate the WCTS within the Sewersheds to support the development of the Evaluation Report/Rehabilitation Plan for the Sewershed, as provided in Paragraph 27 and the identification of rehabilitative and corrective actions to meet the objectives of this Consent Decree.

**Work Activities for this period for the Sewershed Evaluation Plan are:**

- Selected 3 firms to complete the SSES work in Sewer Group 1, but approval and authorization of contracts were put on hold, due to lack of available funding caused by the excessive water main breaks due to the winter freeze emergency. Because of this and cost proposals exceeded estimate by 25%, a prioritization of this work and sewersheds will need to be made to proceed as funding allows.
- Received proposals for installation of 12 temporary flow meters within 4 of the 12 Group 1 sewersheds in support of hydraulic modeling and I/I determination.
- Completed data collection protocols for SSES basin information.

**Work activities anticipated during the next reporting period:**

- Award contract to perform SSES work in only 4 of 12 Group 1 sewersheds, depending on available funding. SSES work in 8 remaining Group 1 sewersheds will not be contracted at this time due to budget limitations.
- Issue Notice to Proceed to Contractor to perform SSES work in only 4 of 12 Group 1 sewersheds based on available funding.

- Issue Notice to Proceed to Contractor to install 12 temporary flow meters within 4 of the Group 1 sewersheds. Flow monitoring work in 8 remaining Group 1 sewersheds will not be contracted at this time due to revenue limitations.

## 2.2 Wastewater Treatment Facilities

### 2.2.1 Savanna WWTP Composite Correction Program (CCP)

The Consent Decree requires that within twelve (12) months after the approval of the CPE, the City shall submit to EPA for review and approval a CCP for the Savanna Street WWTP. The purpose of the CCP is to identify rehabilitation and/or upgrades to the Savanna Street WWTP to address the problems identified in the CPE as more particularly described below. To the extent applicable, the CCP shall be consistent with the EPA publications Improving POTW Performance Using the Composite Correction Approach, EPA CERL, October 1984, and Retrofitting POTWs, EPA CERL, July 1989; and the most current edition of MDEQ's Guidance for the Design of Publicly Owned Wastewater Facilities. Upon approval by EPA, the City shall implement the remedial measures in the approved CCP in accordance with the expeditious schedules contained therein.

The CCP shall include, at a minimum, the identification of specific Type 1, Type 2 and Type 3 remedial measures, as such terms are used in the above-referenced EPA publications and as further clarified below. Type 1 and Type 2 remedial measures shall include, minor process changes, minor equipment additions or enhancements, or flow configuration changes to meet NPDES Permit effluent limits and to maximize Secondary Treatment of peak wet weather flow through the Savanna Street WWTP. Type 3 remedial measures shall include any capital improvements, including, without limitation, the addition of a clarifier of equal size to the existing clarifiers at the Savanna Street WWTP and Biological Nutrient Removal ("BNR"), necessary for the Savanna Street WWTP to meet the May 4, 2012 NPDES Permit effluent limits including nutrient limits. The CCP shall also include expeditious schedules for the implementation of such measures; provided, however, that all Type 1 and Type 2 measures shall be completed within twenty-four (24) months after EPA's approval of the CCP and all Type 3 measures shall be completed within sixty (60) months after EPA's approval of the CCP.

#### **Work Activities for this period for this activity:**

- Received comments from Intergovernmental Review Agencies prior to public hearing. Public Hearing conducted on September 12, 2017.
- Submitted Final Facilities Plan to MDEQ before the SRF deadline of October 15, 2017.
- Began conceptual design for Type 1 and Type 2 plant repairs.
- Began preparation of SRF Loan Application package for Type 1 and Type 2 improvements.

- Prepared RFP for selection of design consultant to prepare design contract documents for Type 1 and Type 2 repairs.
- Completed replacement of RAS suction header in the amount of \$271,012 through the Major Maintenance and Repair/Capital Modification Allowance in the Veolia Operations contract.
- Work is underway to construct the roof over the Sludge Storage pad. Funding for this project in the amount of \$311,681 is through the Major Maintenance and Repair/Capital Modification Allowance in the Veolia Operations contract.

**Work activities anticipated during the next reporting period:**

- Complete conceptual design for Type 1 and Type 2 plant repairs.
- Complete SRF Loan Application package for Type 1 and Type 2 improvements and submit to MDEQ.
- Receive SRF Loan Award from MDEQ.
- Select design consultant(s) to prepare design contract documents for Type 1 and Type 2 repairs and begin design work.
- Complete construction of the roof over the Sludge Storage pad and electrical upgrades to the Dewatering Building.

### 2.2.2 Savanna WWTP Storm Cell Sludge Disposal

The Consent Decree requires that as set forth in Section 2.D of the MDEQ Agreed Order I, the City has agreed to implement a Sludge and Solids Removal Plan that provides for the removal and proper disposal of excess, accumulated sludge/solids from the Savanna Street WWTP storm diversion cells. The Parties agree that the City shall implement the Sludge and Solids Removal Plan as an enforceable obligation under this Consent Decree. Section 2.D of the Agreed Order as amended September 29, 2011 states

*"...In any event, Respondent, in accordance with the implementation schedule, shall remove all sludge not later than April 30, 2014 and shall dispose of all removed sludge no later than December 31, 2017".*

Pursuant therein, as of December 29, 2017, the solids disposal operations at the Savanna Street WWTP have been completed in accordance with the requisites of the MDEQ Agreed Order No. 5823 10, thereby satisfying the December 31, 2017 deadline as set forth in Section 2.D. of the Agreed Order Amendment dated September 29, 2011. Additional information pertaining to the solids disposal activities for this reporting period is included in the subsequent paragraphs.

**Work Activities for this period for this activity:**

As of December 31, 2017, disposal of all solids from the Savanna Street WWTP project site was successfully completed. During this six-month reporting period, a total of 40,172.5 tons of solids was disposed of offsite. The following table below summarizes the cumulative progress of the solids disposal operations through the end of February 2018.

**Cumulative Solid Quantities Data as of February 28, 2018**

Biosolids Disposal Data		Quantity, wet tons	Percentage %	Total Quantity, Wet Tons
Quantity Totals Data as of END OF PERIOD	Material disposed of via <b>land application</b> :	68,466.5	67%	102,151.4
	Material disposed of via <b>landfill</b> :	33,684.9	33%	

Upon the conclusion of this reporting period, all solids have been successfully disposed of offsite; of which, **67%** was disposed via land application and **33%** disposed via landfilling. As part of the previous project, **218** geotextile tubes were utilized for dewatering and temporary storage of the solids removed from the plant's storm cells. Solids from **137** of the **218** tubes had been removed and disposed offsite as of the end of the previous period (August 31, 2017). During this period, the solids from the remaining **81** geotextile tubes were removed and disposed offsite prior to December 31, 2017.

**Geotextile Tube Data as of End of February 2018**

Geotextile Tubes Disposal Data	Number of Geotextile Tubes
Total to be disposed at start of project	218
Total disposed for this period	81
<b>Cumulative total disposed as of period's end</b>	<b>218</b>
<b>Total remaining for completion</b>	<b>0</b>

**Work activities anticipated during the next reporting period:**

- Complete the restoration of the project site (including road repairs).
- Execution of the project close-out procedures.

**2.3 Capacity, Management, Operations and Maintenance Programs**

The Consent Decree Section VI, D ¶ 31 through 43 requires the City to implement various programs to properly manage, operate and maintain sanitary wastewater collection,

transmission and treatment systems, investigate capacity-constrained areas of these systems, and respond to SSO events. One of the reporting requirements of the Annual Report as outlined in the Consent Decree Section IX, D ¶ 57 (i) requires *“A summary of the CMOM Programs implemented or modified pursuant to this Consent Decree, including a comparison of actual performance with any performance measures that have been established.”*

The following sections briefly address CMOM activities for the reporting period. A more robust discussion of these activities will be included in the Annual Report for the period March 2017 through February 2018.

### 2.3.1 Capacity Assurance Program (CAP)

#### **Work Activities for this period for this activity:**

- The interim Capacity Assurance Plan was approved on February 7, 2018.
- Hydraulic model development was completed for the entire collection system. Partial dry and wet weather calibration and verification of 35 of 77 flow meter locations have been completed.

#### **Work activities anticipated during the next reporting period:**

- Incorporate known pump station capacities into the hydraulic model.
- Complete flow analysis, calibration and verification for the remaining flow meters based on available funding.
- Complete system-wide existing conditions and future conditions model scenarios for inflow and infiltration and capacity improvements.
- An updated CAP will not be completed and re-submitted to EPA until after completion of calibration and verification of all flow meters. This will need to be discussed further with EPA and MDEQ.

### 2.3.2 Training Program

#### **Significant milestones reached this period for this activity:**

- The Training Program continues to develop.
- Training scheduling has been impacted by vacancies, water main breaks caused by the winter freeze emergency and workload requirements of the Public Works Department.
- The Litmos training learning management system has been fully implemented, and we are in the process of working on utilizing it to its full potential. There is a total of 37 active training courses that have been populated into the software as of now and more courses being designed for future placement into the software. All employees

or their managers have been given user id and password information and have full access to all related courses available in the system with several courses already assigned.

- Training courses can be taken online through a computer, tablet or smartphone. This may help mitigate the time and availability obstacles of the current staffing issues.
- Veolia, the City's Contract Operator for the treatment facilities and lift stations conducted the required training for their employees.
- Began implementation of 30-minute weekly "tail gate" training and safety sessions for the sewer maintenance work crews.

**Work activities anticipated during the next reporting period:**

- Continue to develop training objectives for each employee.
- Review Training program objectives and propose amendment as necessary.

### 2.3.3 Sewer Overflow Response Plan

**Work Activities for this period for this activity:**

- Continued remotely monitoring high water alarms on lift stations.
- Continued Regulatory Agency notifications.
- Submitted Quarterly Reports #18, and # 19.

**Work activities anticipated during the next reporting period:**

- Prepare and submit Quarterly Reports #20 and #21.
- Continue to remotely monitor all pump station high water levels and respond accordingly - by Veolia.
- Update and maintain SSO database, utilizing Program Manager staff as necessary.
- Continue to QA/QC SSO data from March 2016 through February 2018 in preparation for Annual Report #5.
- Prepare map locations with multiple SSO occurrences for inspection.
- Review locations with multiple SSO occurrences and determine needs.
- Conduct annual Program review in conjunction with the Program Management Team.
- Schedule follow-up training sessions facilitated by the Training Coordinator.



- Develop Standard Operating Procedures for activities conducted under the SORP.

### 2.3.4 Interjurisdictional Agreement Program

#### **Work Activities for this period for this activity:**

- EPA approved Program on August 26, 2016.
- No action has been required yet for this Program.

#### **Work activities anticipated during the next reporting period:**

- Meeting with West Rankin Utility Authority (WRUA) in March 2018 to discuss current interjurisdictional agreement.
- Review Interjurisdictional Agreement with WRUA depending on outcome of the meeting in March.
- Negotiations of an interjurisdictional Agreement with City of Byram, MS after it completes its purchase of Forest Woods Utility.

### 2.3.5 Private Lateral Program

#### **Work Activities for this period for this activity:**

- No progress was made in the reporting period on the Private Lateral Program due to staffing issues and lack of available funds.

#### **Work activities anticipated during the next reporting period:**

- No activity is planned to further implement the City's Private Lateral Program due to revenue limitations. The Program will be implemented when funding becomes available.
- Present changes/updates to Sewer Use Ordinance for review and approval by City Council to ensure alignment with the Program.

### 2.3.6 Water Quality Monitoring Program

#### **Work Activities for this period for this activity:**

- EPA approval of the Water Quality Monitoring Program was obtained on December 4, 2017.

**Work activities anticipated during the next reporting period:**

- Begin implementation of the approved Water Quality Monitoring Program, as funding becomes available.

### 2.3.7 Pump Station Operations Program

**Work Activities for this period for this activity:**

- The contract operator (Veolia) is required to be compliant with the approved Pump Station Operations Program as part of their contract with the City.
- The Program Management Team and the City regularly monitor the Veolia performance and determined they in compliance with the Pump Station Operations plan.

**Work activities anticipated during the next reporting period:**

- Emergency generator connections and transfer switches will begin at select (mostly larger) pump stations under Veolia's Major Maintenance and Repair/Capital Modification Allowance contract.
- Bypass pumping connections will begin being provided at select pump stations under Veolia's Major Maintenance and Repair/Capital Modification Allowance contract. Smaller pump stations that can be serviced with a vactor truck during outages will generally not be equipped with connections.
- Review program metrics, monitor Veolia's implementation of program, and evaluate Veolia's operations reports and rehabilitation plans.

### 2.3.8 Fat, Oils and Grease Program

**Work Activities for this period for this activity:**

- The FOG Control Program was initiated in January 2018.
- A FOG Control Program Coordinator and two FOG Program inspectors are engaged in implementing the FOG Program.
- City Council adopted revisions to the Sewer Use Ordinance to implement and enforce the FOG Control Program
- FOG Program materials including inspection forms, best management practice guidelines, grease control device design standards, public education materials and an enforcement response guide have been developed.

- Key Food Service Establishment (FSE) data collected:
  - Quantity of FSEs data in database- 743
  - Courtesy inspections completed - 208

**Work activities anticipated during the next reporting period:**

- Continued rollout of FOG program to public during next reporting period. This will be accomplished through the FOG Control Program Coordinator and the two FOG Program Inspectors under the Program Management contract.
- Continue to train supervisors and inspectors in required field and data management activities.
- Continue to update City's food service establishment database on CityWorks.
- Develop training video for employees of FSE businesses.
- Begin compliance inspections and enforcement consistent with the enforcement response guide.

### 2.3.9 Pump Station Preventative Maintenance Program

**Work Activities for this period for this activity:**

- Veolia (Contract Operator) issued a Notice to Proceed to two (2) engineering firms to begin design for the following 4 pump stations. Design status noted for the following pump stations:
  - Western Hills- Design review meeting held in early February 2018.
  - Whitestone- Design review meeting held in early February 2018.
  - Forest Avenue- Design has begun.
  - Windsor Forest- Survey completed. Will design 425 LF of gravity sewer to eliminate the pump station.

**Work activities anticipated during the next reporting period:**

- Review program metrics, monitor Veolia's implementation of program, and evaluate Veolia's maintenance reports and rehabilitation plans.

### 2.3.10 Gravity Line Preventative Maintenance Program

**Work Activities for this period for this activity:**

- Activities have been adversely affected by staffing levels during the past year.
- Received unit price bids from three contractors to clean sewers, inspect sewer manholes and perform sewer replacement/rehabilitation in support of City staff. These contract(s) will be issued and authorized as funding becomes available.
- Completed the following Collection System Emergency Repair/Replacement projects:
  - Woodland Cr.        700 l.f.        \$ 297,920
  - Medgar Evers Blvd.    70 l.f.        \$ 311,005
  - Caney Creek Interceptor 120 l.f.    \$ 512,558

**Work activities anticipated during the next reporting period include:**

- Continue to hire sewer maintenance staff to fill open positions based on available budget.
- Conduct Program review to identify areas of improvement and, if necessary, request Program amendment approval from USEPA.
- Evaluate cost-effectiveness of repairing inoperable Vector Trucks versus renting trucks or the purchase of new trucks and proceed based on findings.
- Develop Standard Operating Procedures for the City's sewer maintenance division's work associated with this program.

**2.3.11      [WWTP Operations and Maintenance Program](#)**

**Work Activities for this period for this activity:**

- Veolia is providing continual training for their staff on the use of the ERPortal CMMS system to ensure uniformity in data collection and analysis.
- Monthly meetings being held with City, Veolia and Program Management staff to review operations and maintenance activities and discuss any issues.

**Work activities anticipated during the next reporting period:**

- Review program metrics, monitor Veolia's implementation of program, and review monthly operations reports and rehabilitation plans.

## 2.3.12 Financing and Cost Analysis Program

### **Work Activities for this period for this activity:**

- The City responded to EPA on February 7, 2018 and indicated the City had reviewed the Program Documents and determined that no material changes were necessary at this time.

### **Work activities anticipated during the next reporting period:**

- Receive approval of the FCAP from EPA.
- Continue implementation of the Program as required.
- Continue to review the Program and assess whether it continues to meet the City's needs.

## 2.4 Supplemental Environmental Project

The purpose of the Supplemental Environmental Project ("SEP") is to reduce extraneous flows entering the Wastewater Collection and Transmission System (WCTS) through defective residential Private Laterals and through illicit connections from residential properties of eligible property owners. For purposes of this SEP, an illicit connection is any residential connection to the WCTS that discharges any substance or solution that is not intended to be transferred via the WCTS, such as stormwater, surface water runoff and roof runoff. The WCTS becomes a conduit for stormwater when defective Private Laterals or illicit connections allow rain or groundwater to enter the WCTS. Certain components of the WCTS Evaluation Plan required by Section VIII of the Consent Decree will assist the City in identifying defective Private Laterals in need of repair or replacement and illicit connections to the WCTS.

Below is a summary of activities on the SEP through February 2018:

- SEP Participates homes that have been completed - 20.
- SEP Participants whom have been evaluated and approved -106.
- SEP Participants that have been approved but need their SEP participation agreement – 80.

The City performed outreach services in various city and community organizations that yielded several qualified applicants and is expected to secure approximately 100 more in the next 120 days.

- Visited and provided SEP packets to the six City of Jackson Human and Cultural Centers Senior Citizens Programs.
- Visited and provided SEP packets to four Home Owners Associations.

- Visited and provided 400 SEP packets to 19 local church outreach programs.
- Visited and provided SEP packets to 50 residences that have defective laterals.
- Visited and provided 50 SEP packets to the City's only community-based retail and outpatient medical center known as Jackson Medical Mall.
- Visited and delivered 100 applications to residences in Wards 2, 3, 4, 5, 6, and 7. We await their completion and submittals.

A Request for Qualifications (RFQ) packet was prepared and issued to procure additional plumbing contractors. The RFQ submittal date was September 19, 2017. The City received multiple expressions of interest but received one submittal. The City is reviewing other procurement options to hire additional contractors to facilitate the increased interest of the SEP Program. Participation by additional qualified plumbers is essential to increasing the volume of lateral repairs.

## 2.5 Program Management Activities

### **Work Activities for this period for this activity:**

- Selected CityWorks, other GIS and Aconex for integration into the data management system for the program.
- Completed work on Financial Capability Analysis and Integrated Financial Plan.
- Submitted Quarterly, Semi-Annual and Annual regulatory reports.
- Provided overall program administration.
- Reviewed operations and maintenance reports for the City's Contract Operator on pump stations and treatment plants.
- Began development of document management system.
- Worked to coordinate and integrate Consent Decree Projects with other City Projects.
- Received bids from seven firms to complete the SSES work. Selected three firm to complete the SSES work in three contract groups. Due to limited available fund selected one of the three selected companies to begin work on Group 1 sewersheds. However, the award to this one firm was put on hold due to limitations of funding due to the repair of the water main breaks caused by the winter freeze emergency.

**Work activities anticipated during the next reporting period:**

- Further implementation of CityWorks CMMS system and integration of CMMS with GIS data.
- Meet with EPA and MDEQ in April 2018 to discuss City budget limitations and need for Consent Decree Modification to establish a sustainable program.
- Continue discussions with West Rankin Utility Authority regarding City serving them as a satellite customer.
- Continue development of a workforce development program for City's Public Works Department.
- Continue regulatory reporting.
- Continue Consent Decree program administration.

### **3.0 Consent Decree Progress Schedule**

A Gantt chart indicating the overall progress of Consent Decree required activities and major milestones is shown on the following page. This chart will be updated in future submittals. The plan is to update the program schedule on a monthly basis moving forward.



Activity ID	Activity Name	% Comp	OD	@	RD	Start	Finish	Total Float	Comments
<b>97348 - Jackson Compliance Schedule</b>									
<b>Phase Approach for WCTS Evolution and Rehabilitation</b>									
A1000	Develop Work Plan	100%	320	442	0	01-Apr-2013 A	28-Feb-2013	305	
MS1	Submit West Bank Interceptor Work Plan (8-1-13)	100%	0	0	0	01-Apr-2013 A	17-Jun-2013 A		
EPA1	EPA Review & Approval West Bank Interceptor Work Plan	100%	320	320	0	01-Aug-2013 A	17-Jun-2014 A		5 months after date of entry 3-1-13
<b>West Bank Interceptor Evaluation Activities and Report</b>									
A1010	West Bank Interceptor Rehabilitation Plan (Summary)	100%	1357	1448	0	01-Apr-2014 A	19-Mar-2018	9035	
<b>WBI Flow Monitoring</b>									
A1020	WBI Flow Monitoring	100%	730	730	0	01-Apr-2014 A	31-Mar-2016 A		
<b>Inspection and Structural Evaluation of West Bank Interceptor</b>									
A1030	Procure	100%	1055	458	0	01-May-2014 A	31-Aug-2015 A		
A1300	Inspections	100%	365	365	0	01-Sep-2014 A	31-Aug-2015 A		
<b>Flow Data and Structural Evaluation Analysis</b>									
A1040	Flow Data and Structural Evaluation Analysis	100%	274	274	0	01-Mar-2015 A	30-Nov-2015 A		
<b>West Bank Interceptor Evaluation Report and Rehabilitation Plan</b>									
A1050	Develop West Bank Interceptor Evaluation Report and Rehabilitation Plan	100%	1239	317	0	01-Dec-2015 A	13-Oct-2016 A		
MS2	Submit West Bank Interceptor Rehabilitation Plan (4-17-16)	100%	0	0	0	01-Dec-2015 A	31-Mar-2016 A		
EPA2	EPA Review & Approval West Bank Interceptor Rehabilitation Plan	100%	185	195	0	01-Apr-2016 A	13-Oct-2016 A		22 months after EPA1
<b>West Bank Interceptor Facilities Plan &amp; SRF Application</b>									
A1060	West Bank Interceptor Facilities Plan & SRF Application (Summary)	0%	0	0	0	19-Mar-2018	19-Mar-2018	0	City Decided not to develop FP or seek SRF Funds
<b>WBI Yearly Flow Monitoring</b>									
A1750	WBI Flow Monitoring (Ongoing)	14.27%	5024	5024	4307	01-Jan-2030	01-Jan-2030	728	
<b>West Bank Interceptor Rehabilitation Design and Construction - Phase 1</b>									
<b>Project 1 - MH IT0052-IT0082 Rehab</b>									
A1070	FP Phase 3 Contract 1 Construction	100%	416	416	0	10-Jun-2013 A	31-Jul-2014 A		
A1080	FP Phase 3 Contract 2 Construction	100%	259	259	0	01-Oct-2014 A	17-Jun-2015 A		
<b>Project 2 - MH IT0082-IT0098 Rehab</b>									
A1090	FP Phase 4 Construction	100%	233	233	0	11-Apr-2016 A	30-Nov-2016 A		
<b>Project 3 - MH IT0098-IT0118 Rehab</b>									
A1100	FP Phase 5 Construction	100%	207	268	0	21-Nov-2016 A	15-Aug-2017 A		
<b>Project 4 - MH IT0148-IT0171 Cleaning only</b>									
A1110	Design	63.64%	671	1128	243	01-Feb-2016 A	02-Mar-2019	-169	
A1120	Procure	0%	89	89	0	01-Feb-2016 A	30-Apr-2016 A		
A1130	Cleaning	0%	122	122	122	02-Jun-2018*	31-Oct-2018	-199	
<b>Project 5 - MH IT0153-IT0178 Cleaning only</b>									
A1140	Design	0%	334	334	334	03-Mar-2019	30-Jan-2020	897	
A1150	Procure	0%	90	90	90	03-Mar-2019	31-May-2019	-199	
A1160	Cleaning	0%	122	122	122	01-Jun-2019	30-Sep-2019	897	
<b>Project 6 - MH IT0118-IT0133 Rehab</b>									
A1170	Design	0%	549	549	549	31-Aug-2019	01-Mar-2021	-199	
A1180	Procure	0%	184	184	184	31-Aug-2019	01-Mar-2020	-199	
A1190	Construction	0%	120	120	120	02-Mar-2020	29-Jun-2020	-199	
<b>Project 7 - MH IT0095-IT0043 Rehab</b>									
A1200	Design	0%	520	520	520	28-Sep-2020	02-Mar-2022	-199	
A1210	Procure	0%	154	154	154	28-Sep-2020	01-Mar-2021	-199	
A1220	Construction	0%	121	121	121	02-Mar-2021	30-Jun-2021	-199	
<b>Project 8 - TP2-IT02, IT09-IT12, IT28-IT29 Cleaning only</b>									
A1230	Cleaning	0%	334	334	334	03-Mar-2022	30-Jan-2023	-199	

97348 - Jackson Compliance Schedule		Jackson Schedule Layout										28-Mar-2018 14:30
Activity ID	Activity Name	% Comp	OD	@ Dur	RD	Start	Finish	Total Fval	Comments			
A1230	Design	0%	90	90	90	03-Mar-2022	31-May-2022	-199				
A1240	Procure	0%	122	122	122	01-Jun-2022	30-Sep-2022	-199				
A1250	Cleaning	0%	122	122	122	01-Oct-2022	30-Jan-2023	-199				
<b>West Bank Interceptor Activity Report - Phase 1</b>												
A1361	Develop Report West Bank Interceptor Phase 1	0%	274	274	274	31-Jan-2023	31-Oct-2023	2982				
MS3	Submit Report West Bank Interceptor Phase 1 (10-13-22)	0%	0	0	0	30-Apr-2023*	30-Apr-2023*	-199	-199 72 months after approval of EPA2			
EPA3	EPA Review & Approval West Bank Interceptor	0%	184	184	184	01-May-2023	31-Oct-2023	2982				
<b>West Bank Interceptor Design and Construction - Phase 2</b>												
A1830	West Bank Interceptor Design & Construction - Phase 2	0%	3257	3257	3257	01-Jun-2021	31-May-2030	227				
<b>Project 9 - MH IT0021-IT0033 Rehab</b>												
A1360	Design	0%	549	549	549	01-Jul-2021*	31-Dec-2022	2935				
A1370	Procure	0%	120	120	120	01-Jan-2022	30-Apr-2022	2935				
A1380	Construction	0%	245	245	245	01-May-2022	31-Dec-2022	2935				
<b>Project 10 - MH TP02-IT0001 Rehab</b>												
A1390	Design	0%	549	549	549	01-Jul-2022*	31-Dec-2023	2570				
A1400	Procure	0%	120	120	120	01-Jan-2023	30-Apr-2023	2570				
A1410	Construction	0%	245	245	245	01-May-2023	31-Dec-2023	2570				
<b>West Bank Interceptor Activity Report - Phase 2</b>												
A1420	Develop Report West Bank Interceptor Phase 2	0%	90	90	90	01-Jun-2030	29-Aug-2030	227				
MS4	Submit West Bank Interceptor Phase 2 (4-13-2031)	0%	0	0	0	29-Aug-2030*	29-Aug-2030*	227	174 months after approval of EPA2			
EPA4	EPA Review & Approval West Bank Interceptor Phase 2	0%	182	182	182	30-Aug-2030	27-Feb-2031	306				
<b>Sewershed Prioritization Work Plan</b>												
A1350	Develop Sewershed Prioritization Work Plan	100%	259	381	0	01-Jun-2013 A	17-Jun-2014 A					
MS5	Submit Sewershed Prioritization Work Plan (10-1-13)	100%	0	0	0	01-Jun-2013 A	30-Sep-2013 A					
EPA5	EPA Review & Approval Sewershed Prioritization Work Plan	100%	259	259	0	01-Oct-2013 A	17-Jun-2014 A		7 months after date of entry 3-1-13			
<b>Sewershed Prioritization Activities and Report</b>												
<b>Sewershed Flow Monitoring</b>												
A1440	Procure	100%	1065	334	0	01-May-2014 A	31-Mar-2015 A	4474				
A1450	Flow Monitoring	100%	122	122	0	01-May-2014 A	31-Aug-2014 A					
<b>Sewershed Characterization</b>												
A1460	Characterization	100%	182	182	0	01-Sep-2014 A	31-Mar-2015 A					
<b>WQTS Mapping</b>												
A1470	Field Data Collection / GIS Mapping	75.1%	1032	2009	257	01-Jun-2013 A	30-Nov-2018	4778				
A1480	Field Verification	57.6%	609	609	257	01-Apr-2017 A	30-Nov-2018	4474				
<b>Hydraulic Modeling</b>												
A1480	Hydraulic Modeling	38.55%	913	913	561	01-Apr-2017 A	30-Sep-2019	4474				
<b>WQTS Capacity Assessment</b>												
A1510	Capacity Assessment	20%	239	352	184	31-Oct-2017 A	17-Oct-2018	4922				
A1500	Pump Stations Condition Assessment	0%	184	184	184	17-Apr-2018	17-Oct-2018	-139				
<b>Sewershed Prioritization Report</b>												
A1430	Develop Sewershed Prioritization Report	100%	184	402	0	01-Jan-2017 A	07-Feb-2018 A					
MS6	Submit Sewershed Prioritization Report (2-17-17)	100%	0	0	0	01-Jan-2017 A	17-Feb-2017 A		32 months after approval of EPA5			
EPA6	EPA Review & Approval Sewershed Prioritization Report	100%	184	354	0	18-Feb-2017 A	07-Feb-2018 A		EPA Approval received on 2-7-18			
<b>Sewershed Evaluation Plan</b>												
A1520	Develop Sewershed Evaluation Plan	6.37%	5252	6360	4730	01-Oct-2013 A	28-Feb-2031	305				
MS7	Submit Sewershed Evaluation Plan (3-1-14)	100%	150	150	0	01-Oct-2013 A	28-Feb-2014 A		12 months after date of entry 3-1-13			
EPA7	EPA Review & Approval Sewershed Evaluation Plan	100%	108	108	0	01-Mar-2014 A	17-Jun-2014 A					
<b>Sewershed Group 1</b>												
		11.25%	2963	2964	2541	01-Mar-2017 A	02-Mar-2025	2494	TASK filter: All Activities Progress Thru 19-Mar-2018			

Activity ID	Activity Name	% Comp	OD	@	RD	Start	Finish	Total Float	Comments
<b>WCTS Evaluation Sewer Group 1</b>									
A1530	Procure	55.61%	578	640	257	01-Mar-2017 A	30-Nov-2016	-183	
A1540	Evaluation of Sewershed Group 1	88.48%	92	412	29	01-Mar-2017 A	16-Apr-2018	-183	
MS9	Complete Evaluation of Sewershed Group 1 (6-1-16)	0%	228	228	0	17-Apr-2018	30-Nov-2018	-183	
<b>Group 1 SSES Studies</b>									
A1550	Procure	48.00%	670	670	346	01-Mar-2017 A	01-Jun-2019	-1887	
A1560	Group 1 SSES Studies	0%	123	457	135	01-May-2017 A	31-Jul-2018	4687	
A1570	Procure	0%	213	213	0	01-Aug-2018	01-Mar-2019	4687	Only Group 1, Contract 3 to proceed initially
<b>Pre-Rehab Flow Monitoring</b>									
A1580	Procure	43.36%	268	238	102	02-Jan-2018 A	27-Aug-2018	-4973	
A1590	Flow Monitoring	85.48%	62	85	9	02-Jan-2018 A	27-Mar-2018	-4821	
<b>WCTS Evaluation Report/Rehabilitation Plans- Group 1</b>									
A1590	Develop WCTS Evaluation Report/ Rehabilitation Plan- Group 1	0%	273	273	273	01-Dec-2018	30-Aug-2019	-183	
MS8	Submit WCTS Evaluation Report/ Rehabilitation Plan- Group 1 (8-31-19)	0%	0	0	0	02-Mar-2019*	02-Mar-2019	-183	Only Group 1, Contract 3 to proceed initially
EP8	EPA Review & Approval WCTS Evaluation Report/ Rehabilitation Plan- Group 1	0%	181	181	181	03-Mar-2019	30-Aug-2019	-183	Only Group 1, Contract 3 to proceed initially
<b>WCTS Rehabilitation Design and Construction Group 1</b>									
A1600	Procure	0%	1736	1736	1736	31-Aug-2019	31-May-2024	-163	
A1610	Design	0%	156	156	156	31-Aug-2019	02-Feb-2020	-183	
A1620	Bid	0%	730	730	730	03-Feb-2020	01-Feb-2022	-183	
A1630	Construction	0%	120	120	120	02-Feb-2022	01-Jun-2022	-183	
MS10	Complete WCTS Rehabilitation Design and Construction Group 1 (12-1-23)	0%	730	730	730	02-Jun-2022	31-May-2024	-183	
<b>WCTS Rehabilitation Activity Report (By Design Engineer) Group 1</b>									
A1640	Develop WCTS Rehabilitation Activity Report - Group 1	0%	275	275	275	01-Jun-2024	02-Mar-2025	2494	
MS11	Submit WCTS Rehabilitation Activity Report - Group 1 (2-28-24)	0%	0	0	0	01-Jun-2024	30-Aug-2024	-183	
EP9	EPA Review & Approval WCTS Rehabilitation Activity Report - Group 1	0%	184	184	184	31-Aug-2024	02-Mar-2025	2494	
<b>Sewershed Group 2</b>									
<b>WCTS Evaluation - SSES, Etc. - Sewer Group 2</b>									
A1660	Procure	0%	2922	2922	2922	01-Mar-2023	28-Feb-2031	305	
A1670	Evaluation of Sewershed Group 2	0%	641	641	641	01-Mar-2023	30-Nov-2024	0	
MS12	Complete Evaluation of Sewershed Group 2 (12-1-24)	0%	92	92	92	01-Mar-2023*	31-Mar-2023	0	
<b>WCTS Evaluation Report/ Rehabilitation Plan - Group 2</b>									
A1670	Develop WCTS Evaluation Report/ Rehabilitation Plan- Group 2	0%	274	274	274	01-Dec-2024	31-Aug-2025	0	
MS13	Submit WCTS Evaluation Report/ Rehabilitation Plan- Group 2 (2-28-25)	0%	0	0	0	01-Dec-2024	28-Feb-2025	0	
EP10	EPA Review & Approval WCTS Evaluation Report/ Rehabilitation Plan- Group 2	0%	184	184	184	01-Mar-2025	28-Feb-2025*	0	
<b>WCTS Rehabilitation Design and Construction Group 2</b>									
A1680	Procure	0%	1734	1734	1734	01-Sep-2025	31-May-2030	0	
A1690	Design	0%	154	154	154	01-Sep-2025	01-Feb-2028	0	
A1700	Bid	0%	730	730	730	02-Feb-2026	01-Feb-2028	0	
MS14	Construction	0%	120	120	120	02-Feb-2028	31-May-2028	0	
<b>Complete WCTS Rehabilitation Design and Construction Group 1 (6-1-30)</b>									
MS14	Complete WCTS Rehabilitation Design and Construction Group 1 (6-1-30)	0%	730	730	730	01-Jun-2028	31-May-2030	0	
<b>WCTS Rehabilitation Activity Report (By Design Engineer) Group 2</b>									
A1720	Develop WCTS Rehabilitation Activity Report - Group 2	0%	273	273	273	01-Jun-2030	28-Feb-2031	305	
MS15	Submit WCTS Rehabilitation Activity Report - Group 2 (6-31-30)	0%	92	92	92	01-Jun-2030	31-Aug-2030	0	
EP11	EPA Review & Approval WCTS Rehabilitation Activity Report - Group 2	0%	181	181	181	01-Sep-2030	28-Feb-2031	305	
<b>Comprehensive Performance Evaluation (CPE) &amp; Composite Correction Program (CC)</b>									
A1730	Comprehensive Performance Evaluation (CPE) of SSWWTF	40.69%	3409	3409	2022	01-Mar-2013 A	30-Sep-2023	3013	
MS16	Submit Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	1521	781	0	01-Mar-2013 A	21-Apr-2016 A		
EP12	EPA Review & Approval Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	456	456	0	01-Mar-2013 A	31-May-2014 A		
<b>Comprehensive Performance Evaluation (CPE) of SSWWTF</b>									
A1730	Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	456	456	0	01-Mar-2013 A	31-May-2014 A		
MS16	Submit Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	0	0	0	01-Mar-2013 A	31-May-2014 A		15 months from date of entry 3-1-13
EP12	EPA Review & Approval Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	324	324	0	01-Jun-2014 A	21-Apr-2015 A		

97348 - Jackson Compliance Schedule		Jackson Schedule Layout										26-Mar-2018 14:30
Activity ID	Activity Name	% Comp	OD	@	RD	Start	Finish	Total Float	Comments			
			Comp	Days	Days			Float				
<b>Composite Correction Plan (CCP) of SSWWTF</b>												
A1740	Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	1878	942	0	01-Sep-2014	31-Mar-2017	A				
MS17	Submit Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	364	364	0	01-Sep-2014	31-Aug-2015	A				
EPA13	EPA Review & Approval Comprehensive Performance Evaluation (CPE) of SSWWTF	100%	613	577	0	01-Sep-2015	31-Mar-2017	A	12 months after approval of EPA12 revision requested part of lower approval EPA14?			
A1760	Savanna WWTP Facilities Plan & SRF Application	86.96%	92	334	12	01-May-2017	30-Mar-2018	A	5023			
A1770	FP	100%	82	168	0	01-May-2017	15-Oct-2017	A	Final FP 10-15-17			
A1780	SRF	80.33%	61	242	12	01-Aug-2017	30-Mar-2018	A	5023			
A1780	CCP Revision	62.16%	518	548	196	01-Apr-2017	30-Sep-2018	A	0			
MS18	Submit CCP Revision	94.55%	275	367	15	01-Apr-2017	02-Apr-2018	A	0			
EPA14	EPA Review & Approval CCP Revision	0%	181	181	181	03-Apr-2018	30-Sep-2018	A	0			
A1800	Corrective Actions - Type I & II	0%	731	731	731	01-Oct-2018	30-Sep-2020	A	0			
MS19	Complete Type I & II Corrective Actions	0%	731	731	731	01-Oct-2018	30-Sep-2020	A	0			
A1810	Corrective Actions - Type III	0%	1826	1826	1826	01-Oct-2018	30-Sep-2023	A	0			
MS20	Complete Type III Corrective Actions	0%	1826	1826	1826	01-Oct-2018	30-Sep-2023	A	0			
<b>Work under MDEQ Orders Enforceable under this Consent Decree</b>												
SSWWTF	Remove Sludge From Storm Cells	100%	1341	2009	0	02-Jul-2012	31-Dec-2017	A	0			
A1820	SSWWTF - Remove Sludge From Storm Cells	100%	667	667	0	02-Jul-2012	30-Apr-2014	A	0			
MS21	Complete SSWWTF - Remove Sludge From Storm Cells	100%	667	667	0	02-Jul-2012	30-Apr-2014	A	0			
A1840	SSWWTF - Dispose of Sludge Removed From Storm Cells	100%	1341	1341	0	01-May-2014	31-Dec-2017	A	0			
MS22	Complete SSWWTF - Dispose of Sludge Removed From Storm Cells	100%	1341	1340	0	01-May-2014	31-Dec-2017	A	0			
A1860	Presidential Hills NPDES Compliance	100%	439	439	0	18-Mar-2013	31-May-2014	A	0			
MS23	Complete Presidential Hills NPDES Compliance	100%	439	439	0	18-Mar-2013	31-May-2014	A	0			
<b>Capacity, Management, Operations and Maintenance Programs (CMOM)</b>												
CMOM Training Program		45.4%	8331	6901	4549	10-Oct-2011	31-Aug-2030	A	486			
A1860	Develop CMOM Training Program	100%	365	601	0	01-Sep-2013	25-Apr-2015	A	0			
MS24	Submit CMOM Training Program (3-1-14)	100%	365	180	0	01-Sep-2013	28-Feb-2014	A	0			
EPA15	EPA Review & Approval of CMOM Training Program	100%	55	55	0	01-Mar-2014	25-Apr-2014	A	0			
A1870	Implementation of CMOM Training Program (4-25-15)	100%	365	384	0	26-Apr-2014	25-Apr-2015	A	0			
CMOM Capacity Assurance Program (CAP)		0%	711	910	711	31-Aug-2017	27-Feb-2020	A	4324			
MS25.1	Submit CMOM CAP Intern (8-1-17)	100%	0	0	0	31-Aug-2017	31-Aug-2017	A	0			
A1890	Develop CMOM CAP	0%	166	166	166	18-Mar-2018	31-Aug-2018	A	-364			
MS25	Submit CMOM CAP Final (9-1-17)	0%	0	0	0	31-Aug-2018	31-Aug-2018	A	-364			
EPA16	EPA Review & Approval of CMOM CAP	0%	180	180	180	01-Sep-2018	27-Feb-2019	A	4324			
A1890	Implementation of CMOM CAP	0%	365	365	365	28-Feb-2019	27-Feb-2020	A	4324			
CMOM Sewer Overflow Response Plan		34.03%	6901	6901	4549	10-Oct-2011	31-Aug-2030	A	486			
A1920	CMOM Sewer Overflow Response Plan	34.08%	6901	6901	4549	10-Oct-2011	31-Aug-2030	A	486			
CMOM Interjurisdictional Agreement Program		100%	725	1275	0	01-Mar-2014	26-Aug-2017	A	486			
A1900	Develop CMOM Interjurisdictional Agreement Program	100%	365	364	0	01-Mar-2014	28-Feb-2015	A	0			
MS26	Submit CMOM Interjurisdictional Agreement Program (3-1-15)	100%	0	0	0	01-Mar-2015	28-Feb-2015	A	0			
EPA17	EPA Review & Approval of CMOM Interjurisdictional Agreement Program	100%	180	544	0	01-Mar-2015	26-Aug-2016	A	24			
A1910	Implementation of CMOM Interjurisdictional Agreement Program (8-26-17)	100%	365	365	0	27-Aug-2016	26-Aug-2017	A	12			

Activity ID	Activity Name	% Comp	OD	Comp	RD	Start	Finish	Total Float	Comments
<b>CMOM Private Lateral Program</b>									
A1930	Develop CMOM Private Lateral Program	93.00%	2,27	1626	147	01-Mar-2014 A	12-Aug-2018	-365	
MS27	Submit CMOM Private Lateral Program (3-1-15)	100%	365	0	0	01-Mar-2014 A	28-Feb-2015 A		24 months from date of entry 3-1-13
EPA18	EPA Review & Approval of CMOM Private Lateral Program	100%	0	0	0	01-Mar-2014 A	28-Feb-2015 A		
A1940	Implementation of CMOM Private Lateral Program (8-12-17)	59.73%	385	730	147	13-Aug-2016 A	12-Aug-2016 A		-365 12 months after Approval of EPA18, Implementation has not been started
<b>CMOM Water Quality Monitoring Program</b>									
A1950	Develop CMOM Water Quality Monitoring Program	83.15%	1553	1740	261	01-Mar-2014 A	04-Dec-2018	0	
MS28	Submit CMOM Water Quality Monitoring Program (3-1-15)	100%	365	0	0	01-Mar-2014 A	28-Feb-2015 A		24 months from date of entry 3-1-13
EPA19	EPA Review & Approval of CMOM Water Quality Monitoring Program	100%	180	1009	0	01-Mar-2015 A	04-Dec-2017 A		Several Resubmittals
A1960	Implementation of CMOM Water Quality Monitoring Program (12-4-18)	28.45%	365	365	261	05-Dec-2017 A	04-Dec-2018*	0	12 months after Approval of EPA19
<b>CMOM Pump Station Operations Program</b>									
A1970	Develop CMOM Pump Station Operations Program	100%	1982	729	0	01-Jun-2013 A	31-May-2015 A		
MS29	Submit CMOM Pump Station Operations Program (3-1-14)	100%	365	272	0	01-Jun-2013 A	28-Feb-2014 A		12 months from date of entry 3-1-13
EPA20	EPA Review & Approval of CMOM Pump Station Operations Program	100%	180	108	0	01-Mar-2014 A	17-Jun-2014 A		
A1980	Implementation of CMOM Pump Station Operations Program (6-17-15)	100%	365	347	0	18-Jun-2014 A	31-May-2015 A		12 months after Approval of EPA20
<b>CMOM Fats, Oils and Grease (FOG) Program</b>									
A1990	Develop CMOM Fats, Oils and Grease (FOG) Program	86.6%	1157	1634	155	01-Mar-2014 A	20-Aug-2018	-376	
MS30	Submit CMOM Fats, Oils and Grease (FOG) Program (3-1-15)	100%	365	365	0	01-Mar-2014 A	28-Feb-2015 A		24 months from date of entry 3-1-13
EPA21	EPA Review & Approval of CMOM Fats, Oils and Grease (FOG) Program	100%	180	527	0	01-Mar-2015 A	09-Aug-2016 A		
A2000	Implementation of CMOM Fats, Oils and Grease (FOG) Program (8-17-15)	57.55%	365	365	155	21-Aug-2017 A	20-Aug-2018*	-376	12 months after Approval of EPA21, Implementation started by program manager
<b>CMOM Pump Station Maintenance Program</b>									
A2010	Develop CMOM Pump Station Maintenance Program	100%	365	273	0	01-Jun-2013 A	31-May-2015 A		
MS31	Submit CMOM Pump Station Maintenance Program (3-1-14)	100%	0	0	0	01-Jun-2013 A	28-Feb-2014 A		12 months from date of entry 3-1-13
EPA22	EPA Review & Approval of CMOM Pump Station Maintenance Program	100%	180	108	0	01-Mar-2014 A	17-Jun-2014 A		
A2020	Implementation of CMOM Pump Station Maintenance Program (6-17-15)	100%	365	348	0	18-Jun-2014 A	31-May-2015 A		12 months after Approval of EPA22
<b>CMOM Gravity Line Preventative Maintenance Program</b>									
A2030	Develop CMOM Gravity Line Preventative Maintenance Program	86.63%	1055	1872	120	01-Jun-2013 A	16-Jul-2018	-816	
MS32	Submit CMOM Gravity Line Preventative Maintenance Program (3-1-14)	100%	334	334	0	01-Jun-2013 A	30-Apr-2014 A		15 months from date of entry 3-1-13
EPA23	EPA Review & Approval of CMOM Gravity Line Preventative Maintenance Program	100%	180	356	0	01-May-2014 A	21-Apr-2015 A		
A2040	Implementation of CMOM Gravity Line Preventative Maintenance Program (4-21-16)	67.12%	365	1182	120	22-Apr-2015 A	16-Jul-2018*	-816	12 months after Approval of EPA23, Not fully implemented, RFPs for Outside Contractors Q4 2017
<b>CMOM WWTF Operation and Maintenance Program</b>									
A2050	Develop CMOM WWTF Operation and Maintenance Program	100%	2340	1055	0	01-Jun-2013 A	21-Apr-2016 A		
MS33	Submit CMOM WWTF Operation and Maintenance Program (3-1-14)	100%	334	334	0	01-Jun-2013 A	30-Apr-2014 A		15 months from date of entry 3-1-13
EPA24	EPA Review & Approval of CMOM WWTF Operation and Maintenance Program	100%	180	356	0	01-May-2014 A	21-Apr-2015 A		
A2060	Implementation of CMOM WWTF Operation and Maintenance Program (4-21-16)	100%	365	365	0	22-Apr-2015 A	21-Apr-2016 A		12 months after Approval of EPA24
<b>Financing and Cost Analysis Program</b>									
A2070	Develop Financing and Cost Analysis Program	79.54%	2208	2204	452	01-Jun-2013 A	13-Jun-2019	0	
MS34	Submit Financing and Cost Analysis Program (9-1-14)	100%	365	456	0	01-Jun-2013 A	31-Aug-2014 A		18 months from date of entry 3-1-13, Resubmittal required by 2-8-18
EPA25	EPA Review & Approval of Financing and Cost Analysis Program	100%	180	1065	0	01-Sep-2014 A	31-Jul-2017 A		EPA held for 3 years. Gave option to review again 6 months and resubmit
A2071	Redevelop Financing and Cost Analysis Program (2-8-18)	100%	180	178	0	13-Aug-2017 A	07-Feb-2018 A		Reviewed by city and is reflective of current practices, no further revisions.
MS34.1	Resubmit Financing and Cost Analysis Program (2-8-18)	100%	0	0	0	07-Feb-2018 A	07-Feb-2018 A		
EPA25.1	EPA Review & Approval of Financing and Cost Analysis Program Resubmittal	100%	180	33	0	08-Feb-2018 A	13-Mar-2018 A		
A2080	Implementation of Financing and Cost Analysis Program (6-13-19)	1.06%	457	457	452	14-Mar-2018 A	13-Jun-2019*	0	15 months after approval of EPA25.1
<b>Reporting Requirements</b>									
<b>Quarterly Reports</b>									
A2090	Develop Report 16	7.42%	5174	5538	4790	01-Mar-2016 A	29-Apr-2031	245	
<b>Quarterly Report 16</b>									
A2090	Develop Report 16	6.53%	4931	5051	4609	01-Jan-2017 A	30-Oct-2030	426	
A2090	Develop Report 16	100%	90	128	0	01-Jan-2017 A	08-May-2017 A		
A2090	Develop Report 16	100%	90	90	0	01-Jan-2017 A	31-Mar-2017 A		

Activity ID	Activity Name	% Comp	CD	@	RD	Start	Finish	Total Float	Comments
			Comp	Chur					
A2100	Due to City Report 16	100%	0	0	0	24-Apr-2017 A			
A2110	Due to EPA Report 16	100%	0	0	0	08-May-2017 A			
Quarterly Report 17		100%	156	122	0	01-Apr-2017 A	31-Jul-2017 A		
A2120	Develop Report 17	100%	91	91	0	01-Apr-2017 A	30-Jun-2017 A		
A2130	Due to City Report 17	100%	0	0	0	21-Jul-2017 A			
A2140	Due to EPA Report 17	100%	0	0	0	31-Jul-2017 A			
Quarterly Report 18		100%	122	122	0	01-Jul-2017 A	30-Oct-2017 A		
A2150	Develop Report 18	100%	92	92	0	01-Jul-2017 A	30-Sep-2017 A		
A2160	Due to City Report 18	100%	0	0	0	23-Oct-2017 A			
A2170	Due to EPA Report 18	100%	0	0	0	30-Oct-2017 A			
Quarterly Report 19		100%	122	122	0	01-Oct-2017 A	30-Jan-2018 A		
A2180	Develop Report 19	100%	92	92	0	01-Oct-2017 A	31-Dec-2017 A		
A2190	Due to City Report 19	100%	0	0	0	23-Jan-2018 A			
A2200	Due to EPA Report 19	100%	0	0	0	30-Jan-2018 A			
Quarterly Report 20		64.17%	120	120	43	01-Jan-2018 A	30-Apr-2018	0	
A2210	Develop Report 20	85.56%	90	90	13	01-Jan-2018 A	31-Mar-2018	0	
A2220	Due to City Report 20	0%	0	0	0	23-Apr-2018*		0	
A2230	Due to EPA Report 20	0%	0	0	0	30-Apr-2018*		0	
Quarterly Report 21		0%	121	121	91	01-Apr-2018*	30-Jun-2018	0	
A2240	Develop Report 21	0%	91	91	91	01-Apr-2018*	30-Jun-2018	0	
A2250	Due to City Report 21	0%	0	0	0	23-Jul-2018*		0	
A2260	Due to EPA Report 21	0%	0	0	0	30-Jul-2018*		0	
Quarterly Report 22		0%	122	122	122	01-Jul-2018	30-Sep-2018	0	
A2270	Develop Report 22	0%	92	92	92	01-Jul-2018*	30-Sep-2018	0	
A2280	Due to City Report 22	0%	0	0	0	23-Oct-2018*		0	
A2290	Due to EPA Report 22	0%	0	0	0	30-Oct-2018*		0	
Quarterly Report 23		0%	122	122	122	01-Oct-2018	30-Jan-2019	0	
Quarterly Report 24		0%	120	120	120	01-Jan-2019	30-Apr-2019	0	
Quarterly Report 25		0%	121	121	121	01-Apr-2019	30-Jul-2019	0	
Quarterly Report 26		0%	122	122	122	01-Jul-2019	30-Oct-2019	0	
Quarterly Report 27		0%	122	122	122	01-Oct-2019	30-Jan-2020	0	
Quarterly Report 28		0%	121	121	121	01-Jan-2020	30-Apr-2020	0	
Quarterly Report 29		0%	121	121	121	01-Apr-2020	30-Jul-2020	0	
Quarterly Report 30		0%	122	122	122	01-Jul-2020	30-Oct-2020	0	
Quarterly Report 31		0%	122	122	122	01-Oct-2020	30-Jan-2021	0	
Quarterly Report 32		0%	120	120	120	01-Jan-2021	30-Apr-2021	0	
Quarterly Report 33		0%	121	121	121	01-Apr-2021	30-Jul-2021	0	
Quarterly Report 34		0%	122	122	122	01-Jul-2021	30-Oct-2021	0	
Quarterly Report 35		0%	122	122	122	01-Oct-2021	30-Jan-2022	0	
Quarterly Report 36		0%	120	120	120	01-Jan-2022	30-Apr-2022	0	
Quarterly Report 37		0%	121	121	121	01-Apr-2022	30-Jul-2022	0	
Quarterly Report 38		0%	122	122	122	01-Jul-2022	30-Oct-2022	0	
Quarterly Report 39		0%	122	122	122	01-Oct-2022	30-Jan-2023	0	
Quarterly Report 40		0%	120	120	120	01-Jan-2023	30-Apr-2023	0	
Quarterly Report 41		0%	121	121	121	01-Apr-2023	30-Jul-2023	0	
Quarterly Report 42		0%	122	122	122	01-Jul-2023	30-Oct-2023	0	
Quarterly Report 43		0%	122	122	122	01-Oct-2023	30-Jan-2024	0	
Quarterly Report 44		0%	121	121	121	01-Jan-2024	30-Apr-2024	0	
Quarterly Report 45		0%	121	121	121	01-Apr-2024	30-Jul-2024	0	
Quarterly Report 46		0%	122	122	122	01-Jul-2024	30-Oct-2024	0	

Activity ID	Activity Name	% Comp	OD	@	RD	Start	Finish	Total Float	Comments
Quarterly Report 47		0%	122	122	122	01-Oct-2024	30-Jan-2025	0	
Quarterly Report 48		0%	120	120	120	01-Jan-2025	30-Apr-2025	0	
Quarterly Report 49		0%	121	121	121	01-Apr-2025	30-Jul-2025	0	
Quarterly Report 50		0%	122	122	122	01-Jul-2025	30-Oct-2025	0	
Quarterly Report 51		0%	122	122	122	01-Oct-2025	30-Jan-2026	0	
Quarterly Report 52		0%	120	120	120	01-Jan-2026	30-Apr-2026	0	
Quarterly Report 53		0%	121	121	121	01-Apr-2026	30-Jul-2026	0	
Quarterly Report 54		0%	122	122	122	01-Jul-2026	30-Oct-2026	0	
Quarterly Report 55		0%	122	122	122	01-Oct-2026	30-Jan-2027	0	
Quarterly Report 56		0%	120	120	120	01-Jan-2027	30-Apr-2027	0	
Quarterly Report 57		0%	121	121	121	01-Apr-2027	30-Jul-2027	0	
Quarterly Report 58		0%	122	122	122	01-Jul-2027	30-Oct-2027	0	
Quarterly Report 59		0%	122	122	122	01-Oct-2027	30-Jan-2028	0	
Quarterly Report 60		0%	121	121	121	01-Jan-2028	30-Apr-2028	0	
Quarterly Report 61		0%	121	121	121	01-Apr-2028	30-Jul-2028	0	
Quarterly Report 62		0%	122	122	122	01-Jul-2028	30-Oct-2028	0	
Quarterly Report 63		0%	122	122	122	01-Oct-2028	30-Jan-2029	0	
Quarterly Report 64		0%	120	120	120	01-Jan-2029	30-Apr-2029	0	
Quarterly Report 65		0%	121	121	121	01-Apr-2029	30-Jul-2029	0	
Quarterly Report 66		0%	122	122	122	01-Jul-2029	30-Oct-2029	0	
Quarterly Report 67		0%	122	122	122	01-Oct-2029	30-Jan-2030	0	
Quarterly Report 68		0%	120	120	120	01-Jan-2030	30-Apr-2030	0	
Quarterly Report 69		0%	121	121	121	01-Apr-2030	30-Jul-2030	0	
Quarterly Report 70		0%	122	122	122	01-Jul-2030	30-Oct-2030	0	
<b>Semi-Annual Reports</b>		<b>8.43%</b>	<b>4883</b>	<b>5143</b>	<b>4572</b>	<b>01-Sep-2016 A</b>	<b>30-Sep-2030</b>	<b>450</b>	
Semi-Annual Report 3		100%	3580	230	0	01-Sep-2016 A	16-Apr-2017 A		
A3740	Develop Report 8	100%	181	181	0	01-Sep-2016 A	28-Feb-2017 A		
A3750	Due to City Report 8	100%	0	0	0		29-Mar-2017 A		
A3760	Due to EPA Report 8	100%	0	0	0		18-Apr-2017 A		
Semi-Annual Report 9		100%	4821	245	0	01-Mar-2017 A	31-Oct-2017 A		
A3770	Develop Report 9	100%	184	183	0	01-Mar-2017 A	31-Aug-2017 A		
A3780	Due to City Report 9	100%	0	0	0		22-Sep-2017 A		
A3790	Due to EPA Report 9	100%	0	0	0		31-Oct-2017 A		Resubmittal to EPA 10-31-17
Semi-Annual Report 10		100%	182	206	0	01-Sep-2017 A	23-Mar-2018		
A3800	Develop Report 10	100%	181	192	0	01-Sep-2017 A	12-Mar-2018 A		
A3810	Due to City Report 10	100%	0	0	0		19-Mar-2018 A		
A3820	Due to EPA Report 10	0%	0	0	0		25-Mar-2018*		
Semi-Annual Report 11		0%	187	187	187	28-Mar-2018	30-Sep-2018	0	
A3830	Develop Report 11	0%	157	157	157	28-Mar-2018*	31-Aug-2018	0	
A3840	Due to City Report 11	0%	0	0	0		24-Sep-2018*	0	
A3850	Due to EPA Report 11	0%	0	0	0		30-Sep-2018*	0	
Semi-Annual Report 12		0%	211	211	211	01-Sep-2018	30-Mar-2019	0	
A3860	Develop Report 12	0%	181	181	181	01-Sep-2018*	28-Feb-2019	0	
A3870	Due to City Report 12	0%	0	0	0		25-Mar-2019*	0	
A3880	Due to EPA Report 12	0%	0	0	0		30-Mar-2019*	0	
Semi-Annual Report 13		0%	214	214	214	01-Mar-2019	30-Sep-2019	0	
Semi-Annual Report 14		0%	212	212	212	01-Sep-2019	30-Mar-2020	0	
Semi-Annual Report 15		0%	214	214	214	01-Mar-2020	30-Sep-2020	0	
Semi-Annual Report 16		0%	211	211	211	01-Sep-2020	30-Mar-2021	0	
Semi-Annual Report 17		0%	214	214	214	01-Mar-2021	30-Sep-2021	0	
Semi-Annual Report 18		0%	211	211	211	01-Sep-2021	30-Mar-2022	0	

Activity ID	Activity Name	% Comp	OD	@ Comp Dir	RD	Start	Finish	Total Float	Comments
Semi Annual Report 19		0%	214	214	211	01-Mar-2022	30-Sep-2022	0	
Semi Annual Report 20		0%	211	211	211	01-Sep-2022	30-Mar-2023	0	
Semi Annual Report 21		0%	214	214	214	01-Mar-2023	30-Sep-2023	0	
Semi Annual Report 22		0%	212	212	212	01-Sep-2023	30-Mar-2024	0	
Semi Annual Report 23		0%	214	214	214	01-Mar-2024	30-Sep-2024	0	
Semi Annual Report 24		0%	211	211	211	01-Sep-2024	30-Mar-2025	0	
Semi Annual Report 25		0%	214	214	214	01-Mar-2025	30-Sep-2025	0	
Semi Annual Report 26		0%	211	211	211	01-Sep-2025	30-Mar-2026	0	
Semi Annual Report 27		0%	214	214	214	01-Mar-2026	30-Sep-2026	0	
Semi Annual Report 28		0%	211	211	211	01-Sep-2026	30-Mar-2027	0	
Semi Annual Report 29		0%	214	214	214	01-Mar-2027	30-Sep-2027	0	
Semi Annual Report 30		0%	212	212	212	01-Sep-2027	30-Mar-2028	0	
Semi Annual Report 31		0%	214	214	214	01-Mar-2028	30-Sep-2028	0	
Semi Annual Report 32		0%	211	211	211	01-Sep-2028	30-Mar-2029	0	
Semi Annual Report 33		0%	214	214	214	01-Mar-2029	30-Sep-2029	0	
Semi Annual Report 34		0%	211	211	211	01-Sep-2029	30-Mar-2030	0	
Semi Annual Report 35		0%	214	214	214	01-Mar-2030	30-Sep-2030	0	
Annual Reports		7.42%	5174	5538	4790	01-Mar-2016 A	28-Apr-2031	245	
Annual Report 4		100%	5174	428	0	01-Mar-2016 A	02-May-2017 A		
A4680	Develop Report 4	100%	365	365	0	01-Mar-2016 A	28-Feb-2017 A		
A4580	Due to City Report 4	100%	0	0	0		24-Apr-2017 A		
A4600	Due to EPA Report 4	100%	0	0	0		02-May-2017 A		
Annual Report 5		96.15%	4816	425	42	01-Mar-2017 A	29-Apr-2018	0	
A4610	Develop Report 5	96.71%	365	395	12	01-Mar-2017 A	30-Mar-2018	0	
A4620	Due to City Report 5	0%	0	0	0		23-Apr-2018*	0	
A4630	Due to EPA Report 5	0%	0	0	0		28-Apr-2018*	0	
Annual Report 6		0%	395	395	31	31-Mar-2018	29-Apr-2019	0	
A4640	Develop Report 6	0%	335	335	335	31-Mar-2018*	28-Feb-2019	0	
A4650	Due to City Report 6	0%	0	0	0		22-Apr-2019*	0	
A4660	Due to EPA Report 6	0%	0	0	0		28-Apr-2019*	0	
Annual Report 7		0%	426	426	426	01-Mar-2019	29-Apr-2020	0	
Annual Report 8		0%	425	425	425	01-Mar-2020	29-Apr-2021	0	
Annual Report 9		0%	425	425	425	01-Mar-2021	29-Apr-2022	0	
Annual Report 10		0%	425	425	425	01-Mar-2022	29-Apr-2023	0	
Annual Report 11		0%	426	426	426	01-Mar-2023	29-Apr-2024	0	
Annual Report 12		0%	425	425	425	01-Mar-2024	29-Apr-2025	0	
Annual Report 13		0%	425	425	425	01-Mar-2025	29-Apr-2026	0	
Annual Report 14		0%	425	425	425	01-Mar-2026	29-Apr-2027	0	
Annual Report 15		0%	426	426	426	01-Mar-2027	29-Apr-2028	0	
Annual Report 16		0%	425	424	425	01-Mar-2028	29-Apr-2029	0	
Annual Report 17		0%	425	425	425	01-Mar-2029	29-Apr-2030	0	
Annual Report 18		0%	425	425	425	01-Mar-2030	29-Apr-2031	0	



**APPENDIX A**

**FLOW MONITORING DATA**

**SECTION FIVE – SUMMARY**

**September 2017**

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

**Overview:** During the past month the following rainfall totals were recorded: RG 1 – 1.31 inches, RG 2 – 2.40 inches, RG 3 – 1.02 inches and RG 4 – 1.22 inches.

Sitename	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	3.26	3.84	97.63	62
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	3.70	4.46	110.94	57
WBI 4	IT0140	54	5.82	7.56	174.63	79
WBI 5	PL0028	36	0.58	0.94	17.30	69
WBI 5A	PL0167	30	1.59	2.06	47.67	45
WBI 5B	PL0079	30	0.22	0.34	6.52	45
WBI 6	HM0606	48	2.37	3.03	71.01	85
WBI 7	IT0123	48	9.47	12.73	284.15	63
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.08	0.10	2.26	4
WBI 10	EA0002	17	0.42	0.57	12.74	16
WBI 12	IT0085	54	11.46	14.96	343.92	58
WBI 13	EU0068	30	1.47	2.54	44.09	105
WBI 14	BH0221	30	1.25	1.48	37.52	8
WBI 15	BH0138	27	0.39	0.53	11.75	11
WBI 16	BH0074T	12	0.04	0.20	1.16	9
WBI 17	BH0074A	15	0.22	0.36	6.48	6
WBI 18	IT0055	66	23.99	30.28	719.57	50
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	25.39	32.66	761.52	70
WBI 21	TN4131	24	0.21	0.44	6.24	8
WBI 22	TN4017	54	2.55	3.31	76.40	35
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	2.53	3.60	75.85	23
WBI 25	LY0008	48	2.45	3.43	73.44	22
WBI 25 A	LY0039	48	0.15	0.17	4.38	4
WBI 26	IT0019	96	34.59	45.26	1037.60	161
WBI 27	TM0007A	24	0.43	0.58	13.00	13
WBI 28	HC0005A	37	0.52	0.75	15.54	6
WBI 29	IT0001	102	37.87	49.88	1136.05	233
CY 4	CY0280	42	0.46	0.79	13.75	11
HM 1	HM0632	24	0.82	1.19	24.72	80
TR 1	TR0050	42	0.76	1.07	22.92	15

**SECTION FIVE – SUMMARY**

**October 2017**

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

**Overview:** During the past month the following rainfall totals were recorded: RG 1 – 1.56 inches, RG 2 – 2.18 inches, RG 3 – 1.82 inches and RG 4 – 2.84 inches.

Sitename	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	3.45	5.89	107.08	42
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	3.89	6.60	120.65	34
WBI 4	IT0140	54	6.05	8.73	187.18	41
WBI 5	PL0028	36	0.53	0.73	16.36	31
WBI 5A	PL0167	30	1.50	1.62	46.40	24
WBI 5B	PL0079	30	0.20	0.25	6.26	12
WBI 6	HM0606	48	2.24	2.76	69.34	47
WBI 7	IT0123	48	10.19	13.51	315.95	44
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.08	0.10	2.35	3
WBI 10	EA0002	17	0.30	0.37	9.42	12
WBI 12	IT0085	54	11.67	15.27	361.82	39
WBI 13	EU0068	30	1.17	1.47	36.30	83
WBI 14	BH0221	30	1.31	1.56	40.57	7
WBI 15	BH0138	27	0.38	0.45	11.70	6
WBI 16	BH0074T	12	0.03	0.06	1.02	4
WBI 17	BH0074A	15	0.34	0.48	10.43	5
WBI 18	IT0055	66	22.51	25.52	697.94	54
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	24.32	27.12	753.94	67
WBI 21	TN4131	24	0.16	0.30	5.01	8
WBI 22	TN4017	54	2.62	3.52	81.33	31
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	1.89	2.52	58.56	17
WBI 25	LY0008	48	2.34	3.10	72.52	19
WBI 25 A	LY0039	48	0.18	0.37	5.55	8
WBI 26	IT0019	96	32.87	36.71	1019.10	156
WBI 27	TM0007A	24	0.41	0.48	12.76	14
WBI 28	HC0005A	37	0.51	0.56	15.75	6
WBI 29	IT0001	102	35.18	38.92	1089.97	233
CY 4	CY0280	42	1.44	2.13	44.66	16
HM 1	HM0632	24	0.79	0.94	24.50	23
TR 1	TR0050	42	0.76	0.89	23.66	14

**SECTION FIVE – SUMMARY**

**November 2017**

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

**Overview:** During the past month the following rainfall totals were recorded: RG 1 – 0.87 inches, RG 2 – 0.91 inches, RG 3 – 0.86 inches and RG 4 – 0.82 inches.

Sitename	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	3.61	6.53	108.32	43
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	4.18	7.22	125.62	34
WBI 4	IT0140	54	6.08	9.42	182.66	39
WBI 5	PL0028	36	0.53	0.73	16.04	25
WBI 5A	PL0167	30	1.42	1.74	42.69	18
WBI 5B	PL0079	30	0.19	0.28	5.81	11
WBI 6	HM0606	48	2.13	3.15	64.09	39
WBI 7	IT0123	48	10.09	14.27	303.10	40
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.10	0.14	3.04	3
WBI 10	EA0002	17	0.28	0.35	8.27	11
WBI 12	IT0085	54	11.80	15.39	354.49	32
WBI 13	EU0068	30	1.15	1.51	34.51	32
WBI 14	BH0221	30	1.53	1.67	45.87	7
WBI 15	BH0138	27	0.39	0.41	11.65	6
WBI 16	BH0074T	12	0.03	0.06	0.97	3
WBI 17	BH0074A	15	0.45	0.50	13.43	5
WBI 18	IT0055	66	20.06	23.12	602.50	52
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	21.75	24.70	653.36	56
WBI 21	TN4131	24	0.11	0.15	3.29	7
WBI 22	TN4017	54	2.79	3.21	83.76	14
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	1.94	2.67	58.13	14
WBI 25	LY0008	48	2.29	3.01	68.79	14
WBI 25 A	LY0039	48	0.20	0.37	5.97	7
WBI 26	IT0019	96	30.89	54.52	927.91	77
WBI 27	TM0007A	24	0.44	0.49	13.07	12
WBI 28	HCO005A	37	0.45	0.57	13.64	5
WBI 29	IT0001	102	32.82	36.69	986.06	170
CY 4	CY0280	42	1.90	2.47	57.00	14
HM 1	HM0632	24	0.80	1.10	24.06	23
TR 1	TR0050	42	0.79	0.91	23.79	10

**SECTION FIVE – SUMMARY**

**December 2017**

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

**Overview:** During the past month the following rainfall totals were recorded: RG 1 – 3.05 inches, RG 2 – 3.62 inches, RG 3 – 2.80 inches and RG 4 – 4.12 inches.

Sitename	MH ID	Diameter (in)	Average Dally Flow (MGD)	Maximum Dally Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	3.35	5.87	103.72	51
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	3.83	6.64	118.59	33
WBI 4	IT0140	54	5.69	8.95	176.26	50
WBI 5	PL0028	36	0.48	0.61	14.93	37
WBI 5A	PL0167	30	1.31	1.83	40.46	26
WBI 5B	PL0079	30	0.19	0.23	5.85	13
WBI 6	HM0606	48	1.85	3.25	57.35	51
WBI 7	IT0123	48	9.29	14.61	287.84	48
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.10	0.13	3.02	4
WBI 10	EA0002	17	0.19	0.35	5.74	15
WBI 12	IT0085	54	11.17	17.19	346.11	39
WBI 13	EU0068	30	1.59	2.40	49.23	117
WBI 14	BH0221	30	1.56	2.79	48.24	10
WBI 15	BH0138	27	0.43	0.65	13.20	9
WBI 16	BH0074T	12	0.04	0.06	1.07	3
WBI 17	BH0074A	15	0.46	0.53	14.32	4
WBI 18	IT0055	66	20.87	29.50	646.96	76
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	22.08	31.65	684.54	68
WBI 21	TN4131	24	0.16	0.35	5.05	9
WBI 22	TN4017	54	2.88	4.20	89.15	19
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	2.32	3.65	71.98	19
WBI 25	LY0008	48	2.68	4.50	83.20	23
WBI 25 A	LY0039	48	0.18	0.46	5.49	8
WBI 26	IT0019	96	32.05	45.94	993.42	129
WBI 27	TM0007A	24	0.43	0.50	13.34	15
WBI 28	HC0005A	37	0.50	0.84	15.38	7
WBI 29	IT0001	102	34.37	48.68	1065.49	209
CY 4	CY0280	42	2.18	4.03	67.67	32
HM 1	HM0632	24	0.80	1.30	24.75	41
TR 1	TR0050	42	1.03	1.78	31.88	19

**SECTION FIVE – SUMMARY****January 2018**

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

**Overview:** During the past month the following rainfall totals were recorded: RG 1 – 3.11 inches, RG 2 – 2.73 inches, RG 3 – 2.34 inches and RG 4 – 3.19 inches. **\*\*Note:** WBI-12 stopped collecting data on January 17. Gas levels at this site have been too high to allow entry into this manhole to replace the sensor. Efforts are underway to address this situation.

Sitename	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	3.53	5.31	109.41	74
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	4.44	6.07	137.61	69
WBI 4	IT0140	54	6.13	9.13	189.97	88.42
WBI 5	PL0028	36	0.44	0.66	13.74	75
WBI 5A	PL0167	30	1.35	2.04	41.93	59
WBI 5B	PL0079	30	0.22	0.42	6.69	51
WBI 6	HM0606	48	2.07	3.59	64.27	88
WBI 7	IT0123	48	9.99	15.39	309.81	85
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.12	0.16	3.82	4
WBI 10	EA0002	17	0.19	0.42	5.98	18
WBI 12	IT0085	54	**12.92**	**12.92**	**197.00**	49
WBI 13	EU0068	30	1.78	2.51	55.29	151
WBI 14	BH0221	30	1.61	2.09	49.82	9
WBI 15	BH0138	27	0.49	0.82	15.26	9
WBI 16	BH0074T	12	0.05	0.14	1.54	6
WBI 17	BH0074A	15	0.52	0.78	15.95	13
WBI 18	IT0055	66	24.87	32.40	770.99	95
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	25.98	34.29	805.23	73
WBI 21	TN4131	24	0.22	0.41	6.65	11
WBI 22	TN4017	54	3.81	6.36	117.98	23
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	3.10	4.70	95.94	22
WBI 25	LY0008	48	3.86	6.73	119.58	28
WBI 25 A	LY0039	48	0.20	0.62	6.20	11
WBI 26	IT0019	96	38.63	56.40	1197.59	78
WBI 27	TM0007A	24	0.50	0.86	15.37	19
WBI 28	HC0005A	37	0.50	1.02	15.52	8
WBI 29	IT0001	102	41.60	61.77	1289.58	164
CY 4	CY0280	42	2.17	4.29	67.23	32
HM 1	HM0632	24	1.00	1.32	30.86	88
TR 1	TR0050	42	1.19	2.03	36.83	23

**SECTION FIVE – SUMMARY** February 2018

This section contains a table that summarizes key aspects of the data collected at each flow monitoring location for this month.

**Overview:** During the past month the following rainfall totals were recorded: RG 1 – 10.05 inches, RG 2 – 10.04 inches, RG 3 – 8.62 inches and RG 4 – 8.11 inches. **\*\*Notes:** 1. WBI-12 has been down since January 17. New sensors were ordered last month and should arrive shortly. Estimated data based on balancing with upstream and downstream sites is provided here. 2. CY-4 lost communications on February 4. Data was downloaded manually twice in February but was apparently mishandled. We will update this report with data from CY-4 as soon as it is available.

Site name	MH ID	Diameter (in)	Average Daily Flow (MGD)	Maximum Daily Flow (MGD)	Monthly Total Flow (mg)	Peak Depth (in)
WBI 1	IT0171	48	4.17	6.73	116.79	110
WBI 2	PL0544	15	Removed			
WBI 3	IT0156	48	5.32	9.08	148.91	99
WBI 4	IT0140	54	7.43	11.71	207.83	109
WBI 5	PL0028	36	0.66	0.98	18.56	108
WBI 5A	PL0167	30	1.67	2.81	46.86	110
WBI 5B	PL0079	30	0.33	0.68	9.28	90
WBI 6	HM0606	48	2.57	3.81	71.85	112
WBI 7	IT0123	48	12.09	17.75	338.43	103
WBI 8	IT0123	12	Removed			
WBI 9	HM0100A	11	0.13	0.26	3.74	5
WBI 10	EA0002	17	0.33	0.60	9.19	66
WBI 12	IT0085	54	**15.09**	**20.75**	**422.03**	
WBI 13	EU0068	30	1.93	2.61	53.92	164
WBI 14	BH0221	30	1.98	4.64	55.43	72
WBI 15	BH0138	27	0.61	1.32	17.06	70
WBI 16	BH0074T	12	0.07	0.31	2.08	75
WBI 17	BH0074A	15	0.88	1.29	24.75	91
WBI 18	IT0055	66	29.73	42.02	832.30	175
WBI 19	IT0047	15	Removed			
WBI 20	IT0038	66	31.48	43.81	881.40	216
WBI 21	TN4131	24	0.40	0.91	11.31	29
WBI 22	TN4017	54	4.95	11.93	138.57	178
WBI 23	TN4006	11	Removed			
WBI 24	TN40006	48	4.29	8.13	120.04	108
WBI 25	LY0008	48	5.28	11.13	147.78	169
WBI 25 A	LY0039	48	0.51	3.16	14.38	75
WBI 26	IT0019	96	48.81	75.86	1366.75	244
WBI 27	TM0007A	24	0.70	1.77	19.59	24
WBI 28	HC0005A	37	1.23	2.44	34.34	134
WBI 29	IT0001	102	52.67	82.14	1474.67	244
CY 4	CY0280	42	**1.89**	**2.48**	**5.03**	**12**
HM 1	HM0632	24	1.23	1.55	34.36	130
TR 1	TR0050	42	1.83	4.29	51.04	32