



Office of the Chief Executive Officer

Zachary L. Williams
Executive Assistant, Chief Operating Officer

Chief Executive Officer
Michael L. Thurmond

Board of Commissioners

District 1
Nancy Jester

District 2
Jeff Rader

District 3
Larry Johnson

District 4
Steve Bradshaw

District 5
Mereda D. Johnson

District 6
Kathie Gannon

District 7
Gregory Adams

Via Electronic Mail and U.S. Mail

January 30, 2019

Chief, Clean Water Protection Branch
ATTN: Ms. Sara Janovitz
Water Protection Division
United States Environmental Protection Agency - Region 4
61 Forsyth Street
Atlanta, Georgia 30303-8960

**RE: Clean Water Act Consent Decree 1:10cv 4039-WSD
January 30, 2019—14th Semi-Annual Report**

Dear Ms. Janovitz:

As required by §IX. Reporting Requirement of the Consent Decree associated with the above referenced civil action, DeKalb County is submitting the following document for your review and comment:

- January 30, 2019—14th Semi-Annual Report

I certify under penalty of law that these documents 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 fines and imprisonment for knowing violations pursuant to CWA Section 309(c)(4).

If you have questions or comments regarding this submittal, please call me at 404-371-2174.

Respectfully,

Zachary L. Williams,
Chief Operating Officer and Executive Assistant
DeKalb County, Georgia

cc: Georgia EPD
Viviane Ernstes, County Attorney
William "Ted" Rhinehart, Deputy COO
Reginald D. Wells, Director, DWM
Darren Eastall, Consent Decree Administrator
E. Fitzgerald Veira, Troutman Sanders
Matthew C. Welch, Deputy County Attorney

Semi-Annual Report #14

July 1, 2018, to December 31, 2018

Civil Action No. 1:10cv4039 - WSD

**DeKalb County
Department of Watershed Management**



DeKalb County
G E O R G I A



January 30, 2019

Table of Contents

Introduction	1
Capacity, Management, Operations, and Maintenance Programs Update.....	2
1. Contingency and Emergency Response Plan (CERP) (CD VI.B.i)	2
2. Fats, Oils, and Grease (FOG) Management Program (CD VI.B.ii)	3
3. Sewer Mapping Program (CD VI.B.iii)	5
4. Collection and Transmission Systems Training Program (CD VI.B.v).....	6
5. System-Wide Flow and Rainfall Monitoring Program (CD VI.B.vi)	6
6. Infrastructure Acquisitions Program (CD VI.B.ix)	7
7. System-Wide Hydraulic Model.....	8
8. Priority Areas Sewer Assessment and Rehabilitation Program (PASARP) (CD VI.B.x).....	9
9. Ongoing Sewer Assessment and Rehabilitation Program (OSARP) (CD X 38.).....	10
10. Maintenance Management System (MMS) Program (CD VI.B.iv)	11
Gantt Chart.....	13
Table(s)	
Table 1. Consent Decree Submittals – Schedule and Status.....	1

Acronyms

CD	Consent Decree
CERP	Contingency and Emergency Response Plan
CIPPM	Capital Improvement Projects Program Manager
CMOM	Capacity, Management, Operations, and Maintenance
DWM	Department of Watershed Management (DeKalb County)
EPA	United States Environmental Protection Agency
EPD	Georgia Environmental Protection Division
FOG	fats, oils, and grease
FSE	food service establishment
GIS	geographic information system
I/I	infiltration and inflow
lf	linear feet
LS	lift station
MMS	Maintenance Management System
NTP	Notice to Proceed
OSARP	Ongoing Sewer Assessment and Rehabilitation Program
PASARP	Priority Areas Sewer Assessment and Rehabilitation Program
QA/QC	Quality Assurance/Quality Control
SL-RAT	Sewer Line Rapid Assessment Tool
SSO	sanitary sewer overflow
SSOAP	Sanitary Sewer Overflow Analysis and Planning
TISCIT	Totally Integrated Sonar and Camera Inspection Technique

Introduction

DeKalb County (the “County”) submits this 14th Semi-Annual Report in accordance with Section IX, Paragraph 57 of the Consent Decree (CD) (Civil Action 1:10cv4039-WSD) to provide:

- a) “A summary description of projects and significant activities completed and deadlines 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 summary of any missed deadline required by this Consent Decree and, if applicable, the reasons for missing such deadline.”
- b) “A summary of projects and significant activities anticipated to be performed, and deadlines 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. The Parties agree that schedules, dates or deadlines reported pursuant to this subparagraph 57.(b) are not intended to be and shall not become enforceable under this Consent Decree, unless any such schedule, date or deadline is otherwise specifically enforceable pursuant to this Consent Decree.”

A number of projects and activities have taken place during the second 6 months of 2018, and several projects and activities are projected to be implemented in the first 6 months of 2019. As the implementation of the Capacity, Management, Operations, and Maintenance (CMOM) programs continues with the addition of multiple projects and activities, the reporting of those projects and significant activities is more conducive to a Gantt chart format as described in the CD provision outlined above.

Table 1 summarizes completed and projected submittals during the reporting period.

Table 1. Consent Decree Submittals – Schedule and Status

Consent Decree #	Title	DWM Submittal for Review
IX. (57)	13th Semi Annual Report	July 30, 2018
IX. (56)	Quarterly Report	July 30, 2018
VI.B (i)	Revised Contingency and Emergency Response Plan (CERP)	July 31, 2018
IX. (56)	Quarterly Report	October 30, 2018
VI.B (v)	Revised Collection and Transmission Systems Training Program Plan	December 10, 2018
IX. (56)	Quarterly Report	January 30, 2019
IX. (57)	14th Semi-Annual Report	January 30, 2019
IX. (57)	7th Annual Report (2018)	March 1, 2019
IX. (56)	Quarterly Report	April 30, 2019

Capacity, Management, Operations, and Maintenance Programs Update

1. Contingency and Emergency Response Plan (CERP) (CD VI.B.i)

a) Projects and Activities Accomplished for the Reporting Period 7/1/2018 to 12/31/2018

- i.) Submitted a revised CERP CMOM document on July 31, 2018, and received approval from EPA/EPD on November 20, 2018 (see Gantt Chart lines 672–677).
- ii.) Provided multiple instances of training to ensure County personnel and applicable contractors are prepared to respond to sanitary sewer overflow (SSO) emergencies (see Gantt Chart lines 678–682).
 - a. Conducted CERP refresher training for 53 personnel in divisions of Department of Watershed Management (DWM). New DWM employees are trained in CERP during New Employee Orientation.
 - b. Provided training to a total of 370 additional County staff regarding SSO identification and reporting via the County-wide New Employee Orientation administered by Human Resources. (Having personnel trained in SSO identification in more departments facilitates better communication from other departments and DWM and improves response when other departments have information regarding an SSO.)
 - c. Held CERP training for 57 contractor personnel involved with CD-related projects within the last 6 months of 2018. A total of 138 contractor personnel working on CD-related projects took the training in 2018. Contractors are trained as to their responsibilities related to the CERP and how to prevent SSOs during their activities.
- iii.) Promoted greater communication within the wider community about SSO prevention and response (see Gantt Chart lines 683–685).
 - a. Amplified community awareness and education efforts related to fats, oils, and grease (FOG), the leading cause of SSO in the County. More than 8,300 FOG educational flyers were distributed to residents in areas of spills and at community events, informing community members about the effects of FOG on the collection system (additional information about this outreach is in the FOG program section).
- iv.) Implemented immediate maintenance and long-term project planning solutions to ensure the resolution and prevention of SSOs (see Gantt Chart lines 686–691).
 - a. Continued to monitor and coordinate areas for follow-up cleaning or rehabilitation measures. Upon completion of initial response cleaning (approximately 17,000 linear feet [lf]), areas were further cleaned or rehabilitated as needed.
 - b. Addressed long-term solutions to maintenance-related SSOs by establishing a formal root control and cleaning asset management programs. After a root-related SSO, created work orders for chemical root control or easement clearing. Coordinated with other DWM divisions to have contractors perform work and complete documentation. Additional information is included in Maintenance Management Program section.

Exception Reporting: EPD was notified via letter dated October 11, 2016, of an inability to meet the public notice with a 7-day timeframe in the legal organ. (The *Champion Newspaper*, which publishes once per week, requires up to a 10-day pre-notice time-frame). Notwithstanding the inability to meet the 7-day timeframe, the County meets the

earliest possible date the *Champion Newspaper* would allow after the occurrence of a major spill. Moreover, the County notifies the public expeditiously when the public is potentially affected by a SSO. For example, the County sends information regarding all reported spills in an email to the media (radio stations, television stations, and newspapers), in addition to regulatory entities and downstream users as soon as possible, but within 24 hours of learning of the spill. Signs that notify the public that a spill has occurred are posted at the site of a spill as well as upstream/downstream of the site.

b) Projects and Activities Anticipated for the Reporting Period 1/1/2019 to 6/30/2019

- i.) Provide multiple instances of training (see Gantt Chart lines 678–682).
 - a. Continue to provide CERP refresher training to personnel within DWM. These classes take place in the first and second quarter of the year. All personnel are required to attend training yearly. Anticipate training of approximately 500 personnel.
 - b. Continue to provide SSO identification and reporting training to new employees County-wide. These classes occur monthly.
 - c. Continue CERP training for contractor personnel involved with CD-related projects. This training is held as new contracts or contract personnel are added.
- ii.) Ensure effective Community Communications (see Gantt Chart lines 683–685).
 - a. Continue community awareness and education efforts related to FOG. DWM will assemble a team focused on distributing fliers and attending community events.
- iii.) Provide solutions to resolve SSOs and potential SSOs before they occur (see Gantt Chart lines 686–691).
 - a. Continue to monitor and coordinate areas for follow-up cleaning or rehabilitation measures after a SSO. Areas that have experienced a SSO to be prioritized above routine cleaning.
 - b. Continue to address long-term solutions to maintenance-related SSOs with ongoing implementation of root control and cleaning asset management programs. Ensure ongoing scheduling of areas for chemical root control or easement clearing. Additional information is included in Maintenance Management Program section.

2. Fats, Oils, and Grease (FOG) Management Program (CD VI.B.ii)

a) Projects and Activities Accomplished for the Reporting Period 7/1/2018 to 12/31/2018

- i.) To prevent FOG from entering the collection system, the following education efforts were executed (see Gantt Chart lines 693–697).
 - a. Sponsored 39 public outreach events reaching approximately 2,989 citizens with information about FOG and its effect on sewer systems.
 - b. DWM has partnered with the DeKalb County School District to reduce sewer spills. DWM worked with the school district to develop the “No FOG, No Clog” public education campaign for more than 102,000 elementary, middle, and high school students. The “No FOG, No Clog” campaign educates students about the hazards of grease clogs in the sewer systems and aims to positively change FOG disposal

behaviors. DWM designed and created presentations, brochures, and promotional materials that illustrate proper disposal. The campaign also includes tips on social media. The campaign was launched in areas where sewer spills most often occur and will continue during the 2018–2019 school year.

For the July 1 through December 31, 2018, reporting period, DWM conducted 32 school events with 72 presentations reaching approximately 3,010 students with information about FOG and its effect on sewer systems.

- c. In September DWM met with Georgia Piedmont Technical College to develop a “No FOG, No Clog” program for its English as a Second Language students. Almost 300 students were involved and learned best management practices for FOG disposal.
- ii.) Program Compliance and Enforcement (see Gantt Chart lines 698–702)
 - a. Total inspections: 3,122. Inspections are performed to ensure that Food Service Establishments (FSE) have proper FOG interceptors, are properly maintaining the equipment, and have paid all required fees.
 - b. Warning citations issued: 519. Facilities are given a warning citation to comply with poor interceptor maintenance. The vast majority of FSEs come into compliance within the required 48-hour period, otherwise the County may proceed with a court summons.
 - c. Permits issued: 992. All FSE proposing to discharge or currently discharging wastewater that contain FOG must obtain a FOG wastewater discharge permit annually or cease ongoing operation.
 - d. Court summons issued: 133
 - i. 72 cases were resolved with the FSE paying a fine and coming into compliance with the ordinance.
 - ii. 61 cases are not resolved. The court date is still pending, or the defendant did not show and the date was reset.
 - iii.) Program statistics (see Gantt Chart lines 703–705)
 - a. More than 3.2 million gallons of FOG removed by haulers from FSE in inspection program.
 - b. Partnered with the Georgia Institute of Technology for a *pro bono* consulting project in the fall of 2018. Four graduate students from the Scheller College of Business at the Georgia Institute of Technology worked with DWM staff to create and execute a citizen survey of FOG outreach opportunities and to gauge awareness of the understanding of proper disposal of FOG. The survey was executed, and the results analyzed by the consulting team. DWM is awaiting final results of the survey.
 - iv.) While continued revision of the FOG ordinance is not a Consent Decree requirement, a revised FOG ordinance was passed by the Board of Commissioners on December 11, 2018. This ordinance extends the application of existing FOG-related regulations to certain multi-family dwelling units, as follows (see Gantt Chart lines 706–707):
 - a. Applies to apartments, condominiums, and townhome developments with 75 or more units;

- b. Identifies triggering events, including the output of excessive FOG, the occurrence of an SSO, or a County inspection indicating a build-up of FOG, that would bring the multi-family complexes under tighter regulation; and
- c. Created a tiered system of enforcement, cleaning, maintenance, and educational requirements that increases based on the number and frequency of triggering events.

b) Projects and Activities Anticipated for the Reporting Period 1/1/2019 to 6/30/2019

- i.) Community Education (see Gantt Chart lines 693–697)
 - a. Expand communication with County residents and customers as part of the Public Education Program through contacts with community groups and organizations aiding new residents to DeKalb County.
 - b. Continue FOG education programs in DeKalb County schools reaching approximately 580 students.
- ii.) Compliance and Enforcement (see Gantt Chart lines 698–702)
 - a. Continue to have FOG inspectors participate in approximately 3,000 FOG investigations as part of trends analysis follow-up.
 - b. Continue aggressive enforcement program aimed at achieving higher compliance with the FOG ordinance.
 - c. Complete project with consulting team from Georgia Institute of Technology to present conclusions from FOG survey and develop plans from findings.
 - d. Implement the expanded FOG ordinance focusing on multi-family residential complexes as adopted by the Board of Commissioners on December 11, 2018.

3. Sewer Mapping Program (CD VI.B.iii)

a) Projects and Activities Accomplished for the Reporting Period 7/1/2018 to 12/31/2018

- i.) Data Input and Quality Control (see Gantt Chart lines 709–711)
 - a. Continued to populate a geographic information system (GIS) layer for sanitary sewer easements in the County. DWM is capturing easements from record drawings and subdivision plats to augment records. Maps of easements are used to provide locations of access for maintenance of assets. A total of 100 drawings and subdivision plats were used as a pilot to identify easements, scan the document into the GIS software, and then map the easement into the GIS layer.
 - b. Continued updates to the Sewer Mapping GIS to reflect new developments, connectivity issues, system improvements, and maintenance revisions. As assets are added to the GIS, they are also added to the Maintenance Management System Program for maintenance and evaluation.

b) Projects and Activities Anticipated for the Reporting Period 1/1/2019 to 6/30/2019

- i.) Data Input and Quality Control (see Gantt Chart lines 709–711)

- a. Identify assets in areas without sufficient or properly recorded easement documents. Using the pilot as a guide, 400 as-built drawings and subdivision plats are anticipated to be added to the GIS system.

4. Collection and Transmission Systems Training Program (CD VI.B.v)

a) Projects and Activities Accomplished for the Reporting Period 7/1/2018 to 12/31/2018

- i.) The Training Program was updated in December 2018 to reflect the assignment of classes by budget cost centers by DWM and submitted to EPA/EPD for review and approval. In the revised program, references to individual training plans were removed to reflect an updated Training Matrix and assignment by job title (see Gantt Chart lines 718–719).

Exception Reporting: Though the County is not implementing the program as presently written, with respect to individual training plans, the County is providing training on a job title basis through available resources. The revised Training Program reflects this actual training methodology and strategy.

b) Projects and Activities Anticipated for the Reporting Period 1/1/2019 to 6/30/2019

- i.) Implement updated Training Program as submitted on December 10, 2018, using Training Matrix, Training Calendar, and Compliance Suite software to track compliance (see Gantt Chart lines 720–722).

5. System-Wide Flow and Rainfall Monitoring Program (CD VI.B.vi)

a) Projects and Activities Accomplished for the Reporting Period 7/1/2018 to 12/31/2018

- i.) Completed the installation of the remaining flow meters and rain gauges throughout the County to support the development of the dynamic model and other CMOM programs. The network now has 248 flow monitors and 41 rain gauges throughout the County (see Gantt Chart lines 841, 856, 857, 873, and 889).
- ii.) Gathered data to support development of the hydraulic model in Intrenchment Creek (18 flow meters) and Nancy Creek (38 flow meters) (see Gantt Chart lines 801 and 817).
- iii.) Continued calibration and maintenance of flow monitoring and rain gauge network (see Gantt Chart lines 796, 812, 828, 844, 860, 876, and 892).
- iv.) Performed quality assurance/quality control (QA/QC) tasks regarding flow monitoring and rain gauge data (see Gantt Chart lines 794, 810, 826, 842, 858, 874, and 890).
- v.) Placed temporary monitors throughout the system, as needed, to assist in determining available sewer capacity for specific projects (see Gantt Chart line 915).
- vi.) Collected data to support multiple CMOM programs. For example, flow data were used to determine spill volumes, as warranted, as part of the CERP (see Gantt Chart line 916).
- vii.) Selected manhole-mounted infiltration and inflow (I/I) monitoring systems. Flow analysis from the current flow monitoring network has identified drainage areas that have higher than average I/I contributions into the system. These I/I monitors selected will be utilized to further isolate potential locations of I/I (see Gantt Chart line 906).
- viii.) Purchased additional 50 flow meters and 177 modems to replace aging equipment and modems (see Gantt Chart lines 908–910).

b) Projects and Activities Anticipated for the Reporting Period 1/1/2019 to 6/30/2019

- i.) Gather additional data to support development of the hydraulic model in North Fork Peachtree Creek (35 flow meters), South Fork Peachtree Creek (37 flow meters), Snapfinger Basin (70 flow meters), Pole Bridge Basin (31 flow meters), and Miscellaneous model (13 flow meters) areas (see Gantt Chart lines 833, 849, 865, 881, and 897).
- ii.) Continue calibration and maintenance of flow monitoring and rain gauge network (see Gantt Chart lines 828, 844, 860, 876, and 892).
- iii.) Continue the use of flow monitors to collect data to support multiple CMOM programs (see Gantt Chart line 916).
- iv.) Continue QA/QC tasks regarding flow monitoring and rain gauge data (see Gantt Chart lines 826, 842, 858, 874, and 890).
- v.) Install the new manhole mounted I/I monitoring system in areas identified as having I/I conditions. The system includes sensors to measure depth of flow and software to analyze volumetric changes and pinpoint possible locations of I/I (see Gantt Chart line 907).
- vi.) Install cellular modems in flow monitors identified as permanent sites to reduce amount of data retrieval visits required to maintain data integrity (see Gantt Chart line 911).

6. Infrastructure Acquisitions Program (CD VI.B.ix)

a) Projects and Activities Accomplished for the Reporting Period 7/1/2018 to 12/31/2018

- i.) Evaluated/inspected 16,271 feet of pipe (see Gantt Chart line 918).
- ii.) No new lift stations acquired this period (see Gantt Chart line 919)
- iii.) Wastewater plan review (buildings): 580 (see Gantt Chart line 920)
- iv.) Wastewater plan review (land disturbance): 128 (see Gantt Chart line 921)
- v.) Final plat reviews: 38 (see Gantt Chart line 922)
- vi.) FOG building reviews: 577 (see Gantt Chart line 923)
- vii.) Sewer capacity requests received: 285 (see Gantt Chart line 924)
- viii.) Capacity letters issued: 470 (see Gantt Chart line 925)
- ix.) Revised and implemented interim protocols per discussions with agencies in July 2018 (see Gantt Chart line 926)

Exception Reporting: The wastewater flows from approved capacity requests are being tracked and incorporated into the fully developed model(s), and allotment letters are provided at a developer's request. Allotment letters indicating that the applicant's wastewater flows were being allotted for a limited period were not provided to applicants.

b) Projects and Activities Anticipated for the Reporting Period 1/1/2019 to 6/30/2019

- i.) Use the revised interim protocols for capacity assurance and certification of capacity connections approved by the County on July 13, 2018 (see Gantt Chart line 926).
- ii.) Develop new interim protocols for capacity assurance and certification of capacity connections for use with the fully developed dynamic hydraulic models once the models are approved by the County (see Gantt Chart lines 927–928).

- iii.) Implement a formal and comprehensive capacity allotment process and revise sewer capacity letters to reflect the parameters of the process (see Gantt Chart line 935).
- iv.) Integrate capacity allotment process with cities' permitting procedures (see Gantt Chart line 936).

7. System-Wide Hydraulic Model

a) Projects and Activities Accomplished for the Reporting Period 7/1/2018 to 12/31/2018

- i.) Completed flow data analysis and model flow loading update for Intrenchment Creek and Nancy Creek (see Gantt Chart lines 950 and 1001).
- ii.) Completed subcatchment delineation for Intrenchment Creek and Nancy Creek (see Gantt Chart lines 949 and 1000).
- iii.) Continued data collection for model sanitary flow distribution refinement on latest water billing data, large users/wastewater dischargers, and septic tank services areas (see Gantt Chart lines 945, 996, 1047, 1098, 1149, 1200, and 1251).
- iv.) Continued review of water billing data and established Sanitary Sewer Overflow Analysis and Planning (SSOAP) Toolbox data import procedures (see Gantt Chart lines 950, 1001, 1052, 1103, 1154, 1205, and 1256).
- v.) Began preliminary dry weather flow model calibration for Intrenchment Creek and Nancy Creek. (see Gantt Chart lines 969 and 1020).
- vi.) Completed model network verification and updates based on major system changes in Intrenchment Creek and Nancy Creek (see Gantt Chart lines 965–967 and 1016–1018).
- vii.) Updated PASARP capacity improvement projects to incorporate capacity requests submitted through February 2018 for remaining rehabilitation packages to confirm proper extent and sizing of capacity improvement projects (see Gantt Chart lines 980, 1031, 1082, 1133, 1184, 1235, and 1286).

b) Projects and Activities Anticipated for the Reporting Period 1/1/2019 to 6/30/2019

- i.) Complete flow data analysis and model flow loading updated for North Fork Peachtree Creek, South Fork Peachtree Creek, Snapfinger Basin, Pole Bridge Basin, and Miscellaneous modeling areas (see Gantt Chart lines 1052, 1103, 1154, 1205, and 1256).
- ii.) Complete wet weather dynamic hydraulic model setup for all modeling areas (see Gantt Chart lines 944, 995, 1046, 1097, 1148, 1199, and 1250).
- iii.) Complete calibration and capacity assessment for Intrenchment Creek and Nancy Creek (See Gantt Chart lines 964-978 and 1015-1029).
- iv.) Complete model boundary condition setup using data received from the City of Atlanta, Clayton County, Fulton County, Henry County, and Rockdale County (See Gantt Chart lines 945-948, 996-999, 1047-1050, 1098-1101, 1149-1152, 1200-1203, and 1251-1254).
- v.) Complete subcatchment delineation in North Fork Peachtree Creek, South Fork Peachtree Creek, Snapfinger Basin, Pole Bridge Basin, and the Miscellaneous modeling area (See Gantt Chart lines 1051, 1102, 1153, 1204, and 1255).

- vi.) Continue preliminary dry weather flow model calibration for model areas with finished preliminary dry weather flow data analysis and model dry weather flow loading update (See Gantt Chart lines 1070-1072, 1121-1123, 1172-1174, 1223-1225, and 1274-1276).
- vii.) Complete model network verification and update based on major system changes in North Fork Peachtree Creek, South Fork Peachtree Creek, Snapfinger Basin, Pole Bridge Basin, and Miscellaneous modeling area (See Gantt Chart lines 1067-1069, 1118-1120, 1169-1171, 1220-1222, and 1271-1273).

8. Priority Areas Sewer Assessment and Rehabilitation Program (PASARP) (CD VI.B.x)

a) Projects and Activities Accomplished for the Reporting Period 7/1/2018 to 12/31/2018

- i.) Continued follow-up maintenance activities including cleaning and closed-circuit television inspections to address maintenance recommendations developed from initial tiered assessments in PASARP areas.
- ii.) For Design Build Package No. 1, construction completed for early work components. The remaining work is either under final design or under construction. This design build package is to address structural defects identified from assessment activities and improve conveyance capacity (see Gantt Chart lines 1547–1563).
- iii.) For Design Build Package No. 2, construction completed for early work components. The remaining work is either under final design or under construction. This design build package is to address structural defects identified from assessment activities and improve conveyance capacity (see Gantt Chart lines 1569–1591).
- iv.) Notice to Proceed (NTP) received for Design Build Package No. 3. This design build package is to address structural defects identified from assessment activities and improve conveyance capacity (see Gantt Chart line 1596).
- v.) Ongoing development of the bid package for Design Build Package No. 4. This design build package is to address structural defects identified from assessment activities and improve conveyance capacity (see Gantt Chart lines 1610–1611).
- vi.) Design of Rehabilitation Package No. 5 (Annual AE Contract 1) is ongoing. A portion of the design is to address structural defects identified from assessment activities has been completed and assigned to an annual construction firm to begin construction (see Gantt Chart lines 1629–1630).
- vii.) Task orders issued to engineering firms to complete design of Rehabilitation Package No. 6, 7 and 8 (Annual AE Contract 2, 3, and 4). These rehabilitation packages include capacity improvement projects (see Gantt Chart lines 1634, 1637, 1640).
- viii.) Assignment issued to Capital Improvement Projects Program Manager (CIPPM) to complete design of remaining rehabilitation work not previously assigned to Rehabilitation Package Nos. 1 through 8 (see Gantt Chart lines 1642–1643).
- ix.) Continued design of remaining EPA Priority Escalation Projects not already completed.

Exception Reporting: The initial scope of the Caladium Drive rehabilitation project was for 600 lf of lining with a milestone of December 2015 but has been modified to include approximately 2,300 lf of pipe upsizing to address capacity restrictions. The final design is scheduled to be completed by February 2019, with construction scheduled for completion by July 2019.

b) Projects and Activities Anticipated for the Reporting Period 1/1/2019 to 6/30/2019

- i.) Continue final design and construction of projects in Design Build Rehabilitation Packages No. 1 and 2 (see Gantt Chart lines 1547–1591).
- ii.) Complete preliminary engineering for projects in Design Build Package No. 3 (see Gantt Chart lines 1595–1599).
- iii.) Advertise Design Build Package No. 4 (see Gantt Chart lines 1611–1615).
- iv.) For Rehabilitation Package Nos. 5, 6, 7 and 8, continue design of capacity improvement projects (see Gantt Chart lines 1632, 1635, 1638, 1641).
- v.) CIPPM to complete assigned cured-in-place pipe lining and point repair design (see Gantt Chart lines 1642–1643).
- vi.) Annual Construction Contract 1, 2, 3, and 4 to begin lining and point repair construction (see Gantt Chart lines 1645 and 1648).
- vii.) Begin procurement for Annual Construction Contracts 5, 6, 7, and 8 (see Gantt Chart lines 1652-1657).
- viii.) Continue ongoing maintenance for assets in PASARP areas based on initial tiered assessments.
- ix.) Complete design and construction for 2692 Caladium Drive upsizing project in Design Build Package No. 1 (see Gantt Chart lines 2591).

9. Ongoing Sewer Assessment and Rehabilitation Program (OSARP) (CD X 38.)

a) Projects and Activities Accomplished for the Reporting Period 7/1/2018 to 12/31/2018

- i.) Removed approximately 800 tons of debris from large-diameter trunks (see Gantt Chart lines 2077–2095).
- ii.) Performed ongoing tiered assessment in OSARP areas. Completed approximately 420,944 lf of smoke testing, 199,968 lf of acoustic inspections, and 1,666 manhole condition assessments (see Gantt Chart lines 1894–1915).
- iii.) Completed approximately 20.1 miles of Totally Integrated Sonar and Camera Inspection Technique (TISCIT) assessments of large-diameter trunk sewers in OSARP areas (see Gantt Chart lines 2054–2076).
- iv.) Completed the Heritage Heights sewer rehabilitation project (see Gantt Chart lines 3392–3413).

Exception Reporting: The Interstate 85/Oakcliff Industrial Court sewer replacement project was schedule to be complete by December 31, 2018; however, because of extreme weather events in December 2018, this project is scheduled to be completed on January 18, 2019.

b) Projects and Activities Anticipated for the Reporting Period 1/1/2019 to 6/30/2019

- i.) Complete construction of the Interstate 85/Oakcliff Industrial Court sewer replacement project (see Gantt Chart lines 3420–3476).
- ii.) Continue tiered assessment in OSARP areas. Anticipate completing approximately 268,275 lf of smoke testing, 268,275 lf of acoustic inspections, and 1,360 manhole condition assessments (see Gantt Chart lines 1894–1915).
- iii.) Complete approximately 32 miles of TISCIT assessments of large-diameter trunks in OSARP areas (see Gantt Chart lines 2054–2076).
- iv.) Continue procurement process for tiered assessment contract (see Gantt Chart lines 1918–1924).

10. Maintenance Management System (MMS) Program (CD VI.B.iv)

a) Projects and Activities Accomplished for the Reporting Period 7/1/2018 to 12/31/2018

- i.) To address maintenance-related SSO (grease, roots, debris, or any combination), the following maintenance activities were executed (see Gantt Chart line 3861):
 - a. Performed 212 miles of small-diameter (15 inches or smaller) sewer cleaning. This represents 8 percent of the system. A total of 642 miles of small-diameter sewer was cleaned in 2018.
 - b. A total of 90 miles of sanitary sewer mains were treated for roots using chemicals. This represents 3 percent of the system.
 - c. A total of 2,093,573 square feet, or approximately 39 linear miles, of easements were cleared. Clearing of easements is essential to provide access to appurtenances and curtail root growth that could damage pipes.
- ii.) Began procurement for small-diameter (15 inches and smaller) cleaning contract (see Gantt Chart line 3866).
- iii.) Performed 254 sewer creek crossing inspections for pipes previously identified as needing revisit within a year. These inspections include pipes that were to be inspected in 2019. DWM decided it was important to proceed with inspections ahead of schedule (see Gantt Chart line 3862).
- iv.) Continued program of notifying property owners of private lateral maintenance needed. Using PASARP smoke testing data and pictures, DWM notified property owners that a private lateral defect was found on their property during testing. DWM requested that the owner repair the defect and respond with proof of completion. A total of 412 letters were sent, and 12 repairs were completed on laterals (see Gantt Chart line 3864).
- v.) Completed construction of six lift station projects with 2018 milestone dates: Lewis Way Lift Station (LS), Stone Mill I LS, Stone Mill II LS, Pennybrook LS, Fourth Street LS, and Camp Creek LS (see Gantt Chart lines 3257–3383 and 3483–3553).
- vi.) Procured Sewer Line Rapid Assessment Tool (SL-RAT) acoustic inspection tool. DWM added a crew dedicated to using the tool to investigate blockages in pipes and determined if pipes needing cleaning based on the percent of the pipe that was blocked. In the few weeks that the tool was used in 2018, the crew assessed 8 miles of pipe (see Gantt Chart line 3865).

b) Projects and Activities Anticipated for the Reporting Period 1/1/2019 to 6/30/2019

- i.) Procure small-diameter (15 inches and smaller) cleaning contract (see Gantt Chart line 3866).
- ii.) Use Chemical Root Control contract to treat areas of known root problems and areas that have a root-related SSO. Anticipate 60 miles of sewer main for treatment (see Gantt Chart line 3861).
- iii.) Use Easement Clearing contract to clear approximately 25 lf of easements of vegetation to provide access for maintenance and for root control (see Gantt Chart line 3861).
- iv.) Complete creek crossing inspections for those crossings identified as needing yearly inspections. A total of 861 crossings are planned to be inspected in 2019; approximately 350 crossings will be completed during this period (see Gantt Chart line 3862).
- v.) Coordinate SL-RAT inspections with identified cleaning areas to identify which pipes most need cleaning (see Gantt Chart line 3865).

Gantt Chart

As detailed in the Introduction, the Gantt chart is to be used as the primary method for presenting a summary of projects and significant activities achieved or anticipated to be achieved during the reporting period. A description of the layout of the Gantt chart is provided below:

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish.	CD/CMOM Date	% Complete.	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

Identification (ID) - Number assigned to each task listed within the scheduling software. This field is used to sequence the order of tasks and to group like tasks under defined headings. The Gantt chart included in this Semi-Annual Report is a collapsed version of a larger project management scheduling chart. As required under the CD, only specific projects and significant activities are outlined in this report; therefore, the ID numbering is not sequential and the attached chart does not represent the entirety of the tasks currently being undertaken by DWM in the Master Schedule. The number of activities will continue to grow and will be reported in successive Semi-Annual reports.

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish.	CD/CMOM Date	% Complete.	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

Task Name - Name of the task.

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish.	CD/CMOM Date	% Complete.	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

Start - Date the task started or is projected to start.

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish.	CD/CMOM Date	% Complete.	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

Finished - Date the task finished or is projected to finish.

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish.	CD/CMOM Date	% Complete.	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

CD/CMOM Date - Finish date for a milestone based on the CD and CMOM documents. Dates are assigned to milestone type tasks only; other tasks are blank.

DeKalb County Department of Watershed Management		Semi-Annual Report #14															
ID	Task Name	Start	Finish.	CD/CMOM Date	% Complete.	2019											
						J	A	S	O	N	D	J	F	M	A	M	J

% Complete - Status of a task is expressed as a percentage of the task's work (time-wise) that has been completed.

Task		Milestone		Summary		Progress	
------	---	-----------	---	---------	---	----------	---

Legend - The tasks, milestones, summary, and progress are shown on the chart using the above symbols and line styles.

ID	Task Name	Start	Finish	CD/CMOM Date	% Complete.	2019																
						J	A	S	O	N	D	J	F	M	A	M	J					
4	Capacity, Management, Operations and Maintenance Programs (CMOM) Update	4/4/14	6/30/23																			
28	0. Consent Decree Reporting		Ongoing		Ongoing																	
110	Quarterly SSO Reporting		Ongoing		Ongoing																	
130	Quarterly SSO Report (2018)	4/30/18	1/30/19																			
132	Submit Quarterly SSO Report 26	7/30/18	7/30/18	7/30/18	100																	
133	Submit Quarterly SSO Report 27	10/30/18	10/30/18	10/30/18	100																	
134	Submit Quarterly SSO Report 28	1/30/19	1/30/19	1/30/19	0																	
135	Quarterly SSO Report (2019)		Ongoing		Ongoing																	
136	Submit Quarterly SSO Report 29	4/30/19	4/30/19	4/30/19	0																	
142	Semi-Annual Recurring Reporting to EPA		Ongoing		Ongoing																	
211	Submit Semi-Annual Report 13	7/30/18	7/30/18	7/30/18	100																	
219	Submit Semi-Annual Report 14	1/30/19	1/30/19	1/30/19	0																	
235	Annual Recurring Reporting to EPA		Ongoing		Ongoing																	
288	Submit Annual Report 07	2/28/19	2/28/19	3/1/19	0																	
671	1. Contingency and Emergency Response Plan (CERP)		Ongoing		Ongoing																	
672	Updated CERP CMOM	7/2/18	11/21/18																			
673	Revised CERP CMOM to reflect software upgrades & procedural changes	7/2/18	7/31/18		100																	
674	EPA review and approve updated CERP CMOM	8/1/18	9/24/18		100																	
675	DWM Revises and submits final CERP CMOM	9/25/18	11/9/18		100																	
676	EPA reviews and approves final updated CERP CMOM	11/12/18	11/20/18		100																	
677	DWM issues updated CERP CMOM	11/21/18	11/21/18		100																	
678	Training		Ongoing		Ongoing																	
679	Conduct CERP refresher training (53 DWM staff in 2H18)		Ongoing		Ongoing																	
680	Conduct SSO training regarding identification and reporting requirements (370 County staff in 2H18)		Ongoing		Ongoing																	
681	Continue monthly first responder training relating to CERP & operational policies and procedures		Ongoing		Ongoing																	
682	Conduct CERP training to contractor personnel involved with CD-related projects (57 contractor staff in 2H18)		Ongoing		Ongoing																	
683	Community Awareness		Ongoing		Ongoing																	
684	Continue to expand social media presence for spill reporting		Ongoing		Ongoing																	
685	Amplify community awareness and educational efforts relating to FOG (distributed 8,300 FOG flyers in 2H18)		Ongoing		Ongoing																	
686	Corrective Actions		Ongoing		Ongoing																	
688	Continue to monitor and coordinate areas for follow up cleaning or rehabilitation (17,000 lf cleaned in 2H18)		Ongoing		Ongoing																	
689	Finalize & implement revisions to identification and reporting of inflow and infiltration and storm event caused SSO's. This includes training, updating Cityworks and reporting documentation		Ongoing		Ongoing																	

ID	Task Name	Start	Finish	CD/CMOM Date	% Complete.	2019											
						J	A	S	O	N	D	J	F	M	A	M	J
918	Evaluate/Inspect wastewater pipe (16,271 lf in 2H18)		Ongoing		Ongoing	[Gantt bar]											
919	Review lift station acquisitions as required (0 in 2H18)		Ongoing		Ongoing	[Gantt bar]											
920	Complete wastewater plan reviews of buildings (580 in 2H18)		Ongoing		Ongoing	[Gantt bar]											
921	Complete wastewater plan reviews of land disturbances (128 in 2H18)		Ongoing		Ongoing	[Gantt bar]											
922	Complete final plat reviews (38 in 2H18)		Ongoing		Ongoing	[Gantt bar]											
923	Complete FOG building reviews (577 in 2H18)		Ongoing		Ongoing	[Gantt bar]											
924	Review sewer capacity requests (285 received in 2H18)		Ongoing		Ongoing	[Gantt bar]											
925	Issue capacity letters (470 in 2H18)		Ongoing		Ongoing	[Gantt bar]											
926	Revised and implemented interim protocols per discussion with agencies in July 2018	7/13/18	7/13/18		100	[Gantt bar]											
927	Develop new interim protocols for capacity assurance and certification of capacity connections for use with fully developed dynamic hydraulic model	2/4/19	6/28/19		0	[Gantt bar]											
928	Approve the new interim protocols for capacity assurance and certification of capacity connections	6/28/19	6/28/19		0	[Gantt bar]											
932	Continue providing customer service to applicants/citizens requesting assistance		Ongoing		Ongoing	[Gantt bar]											
935	Formalize the capacity allotment process and revise sewer capacity letters to reflect the parameters of the process		Ongoing		Ongoing	[Gantt bar]											
936	Integrate capacity allotment process with cities' permitting procedures		Ongoing		Ongoing	[Gantt bar]											
937	Continue using steady state hydraulic routing model for capacity request reviews until dynamic models are approved by the County		Ongoing		Ongoing	[Gantt bar]											
938	7. System-Wide Hydraulic Model	3/1/18	12/23/19			[Gantt bar]											
941	Dynamic Model Development - Intr trenchment Creek	3/1/18	8/14/19			[Gantt bar]											
944	WWF model setup	6/20/18	1/31/19			[Gantt bar]											
945	Data collection for dynamic model boundary condition from DWM and neighbor utilities	6/20/18	1/31/19		85	[Gantt bar]											
947	Receive data from DWM and neighbor utilities	7/2/18	1/31/19		80	[Gantt bar]											
948	Model boundary condition setup	8/1/18	1/31/19		80	[Gantt bar]											
949	Subcatchment delineation	8/1/18	9/28/18		100	[Gantt bar]											
950	Flow data analysis and model flow loading update	7/20/18	12/24/18			[Gantt bar]											
951	Preliminary Dry Weather Flow data analysis and model Dry Weather Flow loading update (short term available data)	7/20/18	10/26/18		100	[Gantt bar]											
955	Flow data analysis and model loading update with flow monitoring data collected through the entire flow monitoring period	10/26/18	12/24/18		100	[Gantt bar]											
964	Model calibration / sensitivity analysis	4/2/18	3/29/19			[Gantt bar]											
965	Verify model network	4/2/18	12/31/18			[Gantt bar]											
966	DWM provide major system changes through the flow monitoring periods per format provided by CDPMT	4/2/18	11/15/18		100	[Gantt bar]											
967	Update the model network as needed	11/16/18	12/31/18		100	[Gantt bar]											
968	Dry Weather Flow	10/29/18	1/31/19			[Gantt bar]											
969	Preliminary model calibration (short term available data)	10/29/18	12/26/18		100	[Gantt bar]											
970	Final model calibration (data from entire monitoring period)	1/2/19	1/16/19		80	[Gantt bar]											

ID	Task Name	Start	Finish	CD/CMOM Date	% Complete.	2019											
						J	A	S	O	N	D	J	F	M	A	M	J
1286	Update PASARP capacity improvement projects using steady-state model to incorporate capacity requests submitted through Feb 2018	4/2/18	7/27/18		100	7/27											
1309	8. Priority Areas Sewer Assessment and Rehabilitation Program (PASARP)	4/1/14	8/20/14														
1546	Design Build Contract 1	4/1/14	5/2/25														
1547	DB1 Design	9/18/17	3/12/19														
1550	Contractor Submit Drawings for Construction	10/3/18	2/26/19		65	2/26											
1551	County Approves Drawings for Construction	10/3/18	3/12/19		65	3/12											
1552	DB1 Construction - Component 1	9/12/18	5/20/20														
1553	Proj 01 - 4367 Buford Highway (OSARP SSO)	4/30/19	8/9/19														
1554	Proj 02 - 2692 Caladium Drive (PASARP Project)	12/18/18	2/6/20														
1556	Proj 04 - 3924 Roman Court (Phase 2)	9/12/18	9/24/18		100	9/24											
1557	Proj 05 - ASF1	9/12/18	3/6/19		65	3/6											
1558	Proj 06 - 121 Lucerne Street (OSARP SSO)	9/17/18	9/24/18		100	9/24											
1559	Proj 07 - Pole Bridge 1	10/10/18	3/19/20														
1560	Proj 13 - Pole Bridge 6	3/1/19	3/29/19		0	3/29											
1561	Proj 14 - Pole Bridge 7	1/29/19	2/28/19		0	2/28											
1562	Proj 15 - Pole Bridge 8	4/1/19	8/5/19														
1563	Proj 19 - 161 Hood Circle (EPA)	5/30/19	3/24/20														
1569	Design Build Contract 2	1/12/18	6/19/20														
1570	DB2 Design	1/12/18	2/28/19														
1571	Preliminary Design	1/12/18	9/28/18		100	9/28											
1572	County Approve GMP	10/1/18	12/21/18		100	12/21											
1573	Contractor Submit Drawings for Construction	12/24/18	2/8/19		5	2/8											
1574	County Approves Drawings for Construction	12/24/18	2/28/19		5	2/28											
1575	DB2 Construction	4/16/18	6/19/20														
1576	Proj 01 - 5139 North Peachtree Road (OSARP SSO)	4/23/18	4/30/20														
1577	Proj 02 - Valley View (CIP Project)	1/2/19	3/20/19		0	3/20											
1578	Proj 03 - 2659 Mill Court (PASARP SSO)	5/7/19	6/13/19		0	6											
1579	Proj 04 - Nancy Creek Branch 2	1/15/19	2/6/20														
1580	Proj 05 - Nancy Creek Branch 1	1/14/19	1/23/20														
1581	Proj 06 - A-IG2	7/3/18	7/25/19														
1582	Proj 07 - 2737 Winding Lane (PASARP SSO)	12/3/18	4/1/19		20	4/1											
1583	Proj 08 - I-IG11	6/7/18	8/14/19														
1584	Proj 09 - I-IG10	4/16/18	5/21/20														
1585	Proj 10 - 2438 Kings Court (PASARP SSO)	4/23/18	10/21/19														
1586	Proj 11 - 2860 Buford Highway (OSARP SSO)	7/23/18	8/31/18		100	8/31											
1588	Proj 13 - Jolly Avenue (OSARP SSO)	8/1/18	2/24/20														
1590	Proj 14 - 408 South Susan Creek Drive (OSARP SSO)	8/2/18	3/27/20														
1591	Proj 16 - A-SF7	8/10/18	12/27/19														
1594	Design Build Contract 3	10/25/18	3/25/20														

ID	Task Name	Start	Finish.	CD/CMOM Date	% Complete.	2019											
						J	A	S	O	N	D	J	F	M	A	M	J
3863	Inspect sewer infrastructure parallel to waterways and logged assets for future inspection (10.5 miles in 2H18)		Ongoing		Ongoing												
3864	Notify property owners of deficiencies with their private sewer laterals discovered by PASARP smoke testing. Requested owners to fix defects and respond with proof of completion (412 letters sent and 12 repairs completed in 2H18)		Ongoing		Ongoing												
3865	Use Sewer Line Rapid Assessment Tool (SL_RAT) acoustic inspection tool to investigate blockages in pipes and determine if pipes needs cleaning based on percentage blocked (8 miles in 2H18)	11/15/18	Ongoing		Ongoing												
3866	Procure contract for cleaning small diameter pipe	9/4/18	3/29/19		55												
4612	Acronyms :																
4613	AE - Architectural Engineer or Design Consultant																
4614	BOC - Board of Commissioners																
4615	CCTV - Closed-circuit Television																
4616	CD - Consent Decree																
4617	CDPMT - Consent Decree Program Management Team																
4618	CERP - Contingency and Emergency Response Plan																
4619	CIP - Capital Improvement Program																
4620	CMOM - Capacity, Management, Operations, and Maintenance																
4621	C&TS - Collection & Transmission Systems																
4622	DB - Design Build																
4623	DBB - Design Bid Build																
4624	DWM - Department of Watershed Management																
4625	EPA - US Environmental Protection Agency																
4626	FOG - Fats, Oils & Grease																
4627	GIS - Geographic Information System																
4628	LS - Lift Station																
4629	NTP - Notice to Proceed																
4630	OSARP - Ongoing Sewer Assessment and Rehabilitation Program																
4631	PASARP - Priority Area Sewer Assessment and Rehabilitation Program																
4632	P&C - Purchasing & Contracting																
4633	PWI - Public Works and Infrastructure																
4634	QA - Quality Assurance																
4635	QC - Quality Check																
4636	RFP - Request for Proposal																
4637	SSO - Sanitary Sewer Overflow																
4638	SSOAP - Sanitary Sewer Overflow Analysis & Planning software to capture & manage flow relationships																
4639	TISCIT - Totally Integrated Sonar and Camera Inspection Technology																
4640	WO - Work Order																
4641	WWF - Wet Weather Flow includes inflow and infiltration																

ID	Task Name	Start	Finish.	CD/CMOM Date	% Complete.	2019																
						J	A	S	O	N	D	J	F	M	A	M	J					
4642																						
4643	Levels																					
4644	Level 1 - Task																					
4645	Level 2 - SubTask																					
4646	Level 3 - Area																					
4647	Level 4 - Element																					
4648	Level 5 - SubElement																					
4656	Level 6 - SubSubElement																					