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# Semi-Annual Report #3

January 1, 2013 to June 30, 2013  
Civil Action No. 1:10cv4039 - WSD

## DeKalb County Department of Watershed Management



July 26, 2013

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## Introduction

The Department of Watershed Management (DWM) submits this third Semi-Annual Report in accordance with Section IX, Paragraph 57 of the Consent Decree (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."

## Executive Summary

There were no missed deadlines under the Consent Decree (CD) within this reporting period.

In overview, DWM developed, documented and submitted the following CD deliverables for review, comment and approval to EPA/EPD during the first half of 2013 as follows. All submittals were on, or ahead of Consent Decree schedule.

1/24/2013	4 <sup>th</sup> Quarterly Report
1/30/2013	2 <sup>nd</sup> Semi-Annual Report
2/28/2013	1 <sup>st</sup> Annual Report
3/20/2013	<i>"Fats, Oils and Grease (FOG) Management Program"</i>
4/09/2013	5 <sup>th</sup> Quarterly Report

Within the period from July 1, 2013 to December 31, 2013 the County will submit to EPA/EPD the following:

7/31/2012	6 <sup>th</sup> Quarterly Report
7/31/2012	3 <sup>rd</sup> Semi-Annual Report
10/31/2012	7 <sup>th</sup> Quarterly Report
12/20/2012	<i>"Ongoing Sewer Assessment and Rehabilitation Program (OSARP)"</i>
12/20/2012	<i>"Maintenance Management System (MMS) Program"</i>

# Capacity, Management, Operations and Maintenance (CMOM) Programs Update

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

### a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.

- i) 01/10/2013 - Received approval of the revised “CERP” from EPA/EPD.
- ii) 01/2013 – 06/2013 - Completed bi-annual CERP training for selected DWM staff.
- iii) 01/30/2013, 1/30/2013, 3/1/2013 - Completed Spill Assessment Summaries for the annual report, the monthly and the quarterly evaluations.
- iv) 01/2013 – 06/2013 - Responded to and investigated 77 spills, 20 building backups, and 48 overflows.
- v) 01/2013 – 06/2013 - Performance Tracking – Average response time from call to spill stop is 1:51 hours for this period.
- vi) 01/2013 – 06/2013 - Continued and added engineering studies and system improvement projects as a result of investigations as noted:
  - (1) Relining – 4
  - (2) Study – 1
  - (3) Upgrade line size – 1
  - (4) Force main replacement – 1
  - (5) Model specific area – 1
  - (6) Ongoing projects from 2012 – 4
- vii) 01/2013 – 06/2013 - Added language to contracts related to the contractor's duties and responsibilities as it relates to spill prevention and control.
- viii) 01/2013 – 06/2013 - Coordinated activities with County contractors that are performing work on DeKalb County managed property to assure the coordination of work meets the requirements of the CERP.

### b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.

- i) Conduct a review of the CERP to confirm that programs are up-to-date with current practices and activities (done by the DWM Assistant Directors or Managers along with relevant DWM personnel).

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

### a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.

- i) 03/20/2013 - Submitted the “FOG Management Program” for approval by EPA/EPD.
- ii) 04/2013 - Trained and presented 8 FOG inspectors with laptops with access to the XC2 database to review and record data in the field as part of the pilot program.
- iii) 05/15/2013 - Received comments from EPA/EPD on the “FOG Management Program.”
- iv) 05/22/2013 - Hosted a meeting to introduce grease recycling vendors to groups of DeKalb County apartment owners.
- v) 06/10/2013 - Submitted the revised “FOG Management Program” for approval by EPA/EPD.
- vi) 06/21/2013 - Received approval of the “FOG Management Program” from EPA/EPD.
- vii) 01/2013 – 06/2013 - Reviewed 2,678 pump-out manifests as part of the Hauler Company Assessment program.

- viii) 01/2013 – 06/2013 - Required all DeKalb County Food Service Establishments (FSEs) seeking a building permit to undergo a FOG evaluation or plan review prior to obtaining the permit.
- ix) 01/2013 – 06/2013 - Delivered 303 Warning Notices and 8 Court Summons to non-compliant FSE customers for non-payment of permit fees. Non-payment delinquency has dropped from 13.9% in January to 7% in June.
- x) 01/2013 – 06/2013 Performance Measures:
  - (1) Total number of FOG inspections = 3,719.
  - (2) Total number of FOG evaluations = 269.
  - (3) Average inspections per day = 4.58.
  - (4) Average permitted active FSEs = 2,271.
- xi) 01/2013 – 06/2013 - Mailed 1250 brochures to FSEs with renewed FOG permits under the public education program.
- xii) 01/2013 – 06/2013 - Developed a consistent and clear message around the term "FOG" as part of the public education program.
- xiii) Continued to engage with other organizations that have similar water quality messages as part of the public education program (e.g. Metropolitan North GA Water Planning District).

**b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.**

- i) 2013 – 2014 - Communicate with all County residents and customers on a consistent basis as part of the public education program.
- ii) 2013 – 2014 - Expand the mix of media in communications to include social networking.
- iii) 2013 – 2014 - Implement statistically relevant surveys to gauge the effectiveness of our messaging.
- iv) 2013 – 2014 - Receive ongoing feedback from customers regarding the overall effectiveness of the FOG Program as part of the public education program.
- v) 2013 – 2015 - Initiate the FOG permit renewal payment incorporation into water billing.

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

**a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.**

- i) 01/16/2013 - Received approval of the revised "*Sewer Mapping Program*" from EPA/EPD.
- ii) 02/25/2013 - Began the mapping of three sewersheds (Lower Snapfinger Creek, South Fork Peachtree Creek, and Nancy Creek).
- iii) 04/2013 - Purchased an ESRI ArcOnline™ account and began the development of a mobile mapping solutions plan.
- iv) 06/2013 - Activated the GIS feature of CMMS as a starting point for integrating the CMMS and GIS.
- v) 01/2013 – 06/2013 - Began to populate the InfoNet™ database.
- vi) 01/2013 – 06/2013 - Completed 2,114 manhole surveys.
- vii) 01/2013 – 06/2013 - Added the location of alarms for lift stations in InfoNet™ and Geographical Information System (GIS). GIS and plant staff are working to develop a list of lift stations with alarms and perform field verification and survey.

**b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.**

- i) Complete the creation/input to the InfoNet™ database as a first step in the integration of the InfoNet™ and GIS databases. Three sewershed models have been delivered in InfoNet™. As data is delivered it is prepared for upload into InfoNet™.

- ii) Begin import of asset ID's into Computerized Maintenance Management System (CMMS) Database as a starting point for integrating the CMMS and GIS.
- iii) Complete the mapping of three sewersheds (Lower Snapfinger Creek, South Fork Peachtree Creek, and Nancy Creek).
- iv) Develop mobile mapping solution plan for the real-time field laptop map updates.
- v) Begin linking the InfoNet™ database to GIS.
- vi) Complete the assignment of asset identification numbers for manholes at completion of inventory and mapping program as part of the integration of the CMMS and GIS systems.
- vii) Identify lift station alarms as the first step in adding the alarms to GIS and InfoNet. Add location of lift station alarms to InfoNet™ and GIS.

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

##### a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.

- i) Continued development of computerized interface between CMMS and GIS.
- ii) Initiate the development of written maintenance related procedures and specifications to incorporate into the MMS program.

##### b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.

- i) 12/20/2013 - Submit the "MMS Program" to EPA/EPD for review and comment.

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

##### a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.

- i) 01/3/2013 - Received approval of the "Collection and Transmission Systems Training Program" from EPA/EPD.
- ii) 01/2013 – 06/2013 - Conducted the Initial Priority Training (including CERP, enhanced equipment operations training, and reporting requirements training).
- iii) 01/2013 – 06/2013 - Conducted training on 137 subjects for 509 employees totaling 4,764 training hours.

##### b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.

- i) Organize staffing and program management by securing assistance from CD Program Manager for the Training Program Knowledge Retention Officer and selecting course offerings and frequency for the year based on Infrastructure Career Development Plans.
- ii) Provide Seminars, one-time offerings, webcasts, and training from local organizations.
- iii) Implement Year 1 of the Long Term 3-year training cycle.

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

##### a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.

- i) 01/31/2013 - Submitted the revised "System-Wide Flow and Rainfall Monitoring Program" for approval by EPA/EPD.
- ii) 02/14/2013 - Received approval of the "System-Wide Flow and Rainfall Monitoring Program" from EPA/EPD.
- iii) Implemented maintenance program to maintain each site four times per month.
- iv) Purchased three tough field laptops to enhance data downloads and storage.
- v) Repaired all non-working temporary sites. As of 6/13/2013, 100% are functional.

- vi) Repaired all non-working permanent sites and fenced 17 sites and placed warning signs to avert vandalism.

**b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.**

- i) Install 3 additional rain gauges to the northern portion of the County.
- ii) Add temporary rain gauges as needed to support the program needs.
- iii) Begin using information from 35 Weatherbug rain gauges.
- iv) Transfer the historical flow and rainfall data currently stored at the Telog Enterprise remote server to the County's server.
- v) Install Sprint™ Modems on all permanent sites.

## 7. System-Wide Hydraulic Model (CD VI.B.vii)

**a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.**

- i) 01/3/2013 - Received comments from EPA/EPD on the “*System-Wide Hydraulic Model Program*”.
- ii) 1/31/2013 - Submitted the revised “*System-Wide Hydraulic Model Program*” for approval by EPA/EPD.
- iii) 2/14/2013 - Received approval of the “*System-Wide Hydraulic Model Program*” from EPA/EPD.
- iv) Used the hydraulic model completed for Shoal Creek to help identify the cause of spills, such as negative pipes, flat slope pipes which are lower than the minimum slope requirement, surcharging and backup from the interceptors due to the high I/I volume, shallow manholes, etc. Provided recommendations such as raising the shallow manholes, washing those sections with negative/flat pipe slopes prior to the final rehab/replacement and backup from the interceptors where the sediments will most likely be accumulated to prevent future spills.
- v) Three (3) sewershed models for Shoal Creek, Cobb Fowler, and Pole Bridge sewersheds have been delivered in InfoWorks™ CS.

**b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.**

- i) Continue modeling sewersheds and other related activities.

## 8. Financial Analysis Program (CD VI.B.viii)

**a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.**

- i) 01/10/2013 - Received approval of the revised “*Financial Analysis Program*” from EPA/EPD.
- ii) 01/01/2013 - Implemented the 2013 Water and Sewer Rates increase (11%).
- iii) Working to meet the 2015 CMMS and other computer-based technology to track and report on O&M cost by activity type (preventative, corrective and emergency).

**b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.**

- i) Provide analysis to the Finance Department regarding recommended revenue projections and recommended budgeted expenditures based on prior years’ history and recent trends.
- ii) Approximate the operation and maintenance costs by the type of activity (corrective, preventative, and emergency) until the tracking system comes online in 2015 (currently working with the field personnel on compiling the data).
- iii) Begin 2014 Operating and capital budget planning at the end of July.

- iv) Continue to work on the integration of the CMMS, GIS and InfoNet™ system.

## 9. Infrastructure Acquisitions Program (CD VI.B.ix)

### a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.

- i) 01/10/2013 - Received approval of the revised *“Infrastructure Acquisitions Program”*.
- ii) 01/2013 – 06/2013 - Evaluated and acquired 2,417 pipe footage under the new Infrastructure Acquisition program.

### b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.

- i) Review approximately 9000 feet of sewer lines.
- ii) Complete one large development and two medium developments that are currently under review.

## 10. Priority Areas Sewer Assessment and Rehabilitation Program (CD VI.B.x)

### a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.

- i) 02/14/2013 - Received comments from EPA/EPD on the *“Priority Areas Assessment and Rehabilitation Program”*.
- ii) 03/17/2013 - Submitted the revised *“Priority Areas Assessment and Rehabilitation Program”* for approval by EPA/EPD.
- iii) 3/31/2013 - Completed 700 LF of relining (CIPP): 700 LF is in Additional Priority Area (APA) (Skyland Drive Project, APA TNFORK1).
- iv) 3/26/2013 - Received approval of the *“Priority Areas Assessment and Rehabilitation Program”* from EPA/EPD.
- v) 6/30/2013 - Began engineering study of Southfork Peachtree Creek Basin (Initial Priority Area (IPA) 10, 12, 23 and APA TSFORK3&4).
- vi) 01/2013 – 06/2013 - Completed 73,014 LF of cleaning and CCTV: 10,460 LF is in IPA (Farnham Court Project, IPA15) and 11,192 LF is in APA (Farnham Court, APA TCBF11 and Kensington Road Project, APA IND1).
- vii) 01/2013 – 06/2013 - Completed 3,660 LF of pipeline replacement by open-cut or jack and bore: 1,300 LF is in IPA (Dunwoody Lane Petition Project, IPA1) and 400 LF is in APA (Will Ross Court Project, APA TNANCY2).
- viii) 01/2013 – 06/2013 - Completed 42 manhole rehabilitation and all of these are in IPA and APA (Shoal Creek Basin, IPA20, APA SHO5, SHO7, SHO9).
- ix) 01/2013 – 06/2013 - Ongoing Sanitary Sewer Study includes: Heritage Heights Crossing Study, Millwood Way (IPA23, part of Southfork Creek study), Clarkston-Tucker outfall (part of Southfork Creek study), Valley View Sanitary Sewer Capacity Study.

### b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.

- i) Establish the physical boundaries of the Priority Areas.
- ii) Determine the optimization of flow monitors and rain gauges as needed.
- iii) Clean and CCTV 14,471 linear feet of sewer on Johnson Ferry.
- iv) Clean and CCTV 21,000 linear feet of sewer on Farnham Court.
- v) Lift station rehabilitation on Columbia Drive.
- vi) Manhole rehabilitation for Shoal Creek Basin.
- vii) Construct future lift station project at Fairington.



- viii) Priority Areas Manhole Rehabilitation. (Expect to complete approximately 50-60 manhole rehabilitations in IPA and APA).
- ix) Relining of sanitary sewer due to sewer spill at various locations: 1853 Forest Spring Court, 2860 Buford Highway, 2650 Mill Court, 2438 Kings Court, 4089 Lindsey Drive, 1736 Jerico Court, 2012 Glenwood Avenue, 4367 Buford Highway, 121 Lucerne Street, 2737 Winding Lane, 410 W. Ponce de Leon, 108 E. Ponce de Leon, 5139 N. Peachtree Road).

## **11. Ongoing Sewer Assessment and Rehabilitation Program (CD VI.B.x)**

- a) Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.**
  - i) Initiated the development and preparation of the “Ongoing Sewer Assessment and Rehabilitation Program” document for submittal.
  
- b) Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.**
  - i) 12/20/2013 - Submit the “*Ongoing Sewer Assessment and Rehabilitation Program*” to EPA/EPD for review and comment.

## Supplemental Environmental Project Update

### Supplemental Environmental Project (CD VIII.)

- 1. Projects and Activities Accomplished for the Reporting Period 1/1/2013 – 6/30/2013.**
  - a. 1/31/2013 - Received comments from EPA/EPD on *"Supplemental Environmental Project."*
  - b. 3/17/2013 - Submitted the revised *"Supplemental Environmental Project"* for approval by EPA/EPD.
  - c. 3/27/2013 - Received approval of the *"Supplemental Environmental Project"* from EPA/EPD.
  - d. 5/9/2013 - Developed bid materials including contract specifications, scopes of work (outlining all aspects of collection, removal, and disposal of the trash and debris), field maps depicting access points and other helpful logistical information and invite bids. Invitation-to-Bid documents were submitted to Procurement.
  
- 2. Projects and Activities Anticipated for the Reporting period 7/1/2013 – 12/31/2013.**
  - a. 8/2013 – 10/2013 - Hold one public volunteer stream cleanup in each stream.
  - b. Complete bidding process.