



January 30, 2008

Acting Director of the Division of Enforcement
Department for Environmental Protection
300 Fair Oaks Lane
Frankfort, KY 40601

Chief, Environmental Enforcement Section
Environmental and Natural Resources Division
U.S. Department of Justice
601 D street NW
Washington, DC 20005
DOJ Case No. 90-5-1-1-08591

Chief, Water Program Enforcement Branch
Water Management Division
U.S. Environmental Protection Agency, Region 4
Atlanta Federal Center
61 Forsyth Street, S.W.
Atlanta, Georgia 30303

Re: Consent Decree Case No. 2:05-cv-00199-WOB

Dear Gentlemen:

Pursuant to the above-referenced Consent Decree, Sanitation District No. 1 (District) is required to submit quarterly reports that demonstrate the District's compliance with the Consent Decree:

42. Quarterly Reports. The District shall submit to the Cabinet/EPA a quarterly report that describes the District's progress in complying with this Consent Decree for the previous quarter no later than thirty days after the end of each calendar quarter. The first such report shall be submitted to the Cabinet/EPA no later than thirty days after the second full quarter after entry of this Consent Decree.

The Cabinet recently approved the use of these Quarterly Reports to satisfy the District's annual report requirement of Kentucky Pollutant Discharge Elimination System Permit Number KY0021466. Correspondence confirming this approval can be found in Appendix A of the report.

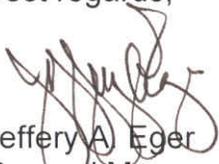
Information contained within the enclosed Quarterly Report describes the District's compliance with Consent Decree Case No. 2:05-cv-00199-WOB for the period of April 18, 2007 through December 31, 2007. Given that this is the first report, the report period covers three calendar quarters instead of only one to account for the first two calendar quarters after entry into the Consent Decree, as well as the most recent previous quarter required for this report. This report also contains an outlook for the upcoming calendar quarter period of January 1, 2008 through March 31, 2008.

A certification as required by the Consent Decree is also enclosed (Consent Decree paragraph 38). The Cabinet and EPA have 90 days from receipt to review submittals unless the District receives notification before the expiration of the 90-day period that review will take longer (Consent Decree paragraph 44).

I am confident in the integrity of the enclosed document, and I am certain that its content not only satisfies regulatory requirements, but also helps further the mission and vision of the District by demonstrating aggressive, proactive, achievable measures underway in Northern Kentucky to protect water resources and enhance the quality of life.

I look forward to receiving your comments in the near future. If you have any questions or concerns, do not hesitate to contact me at 859-578-7465 or by e-mail at jeger@sd1.org.

Best regards,



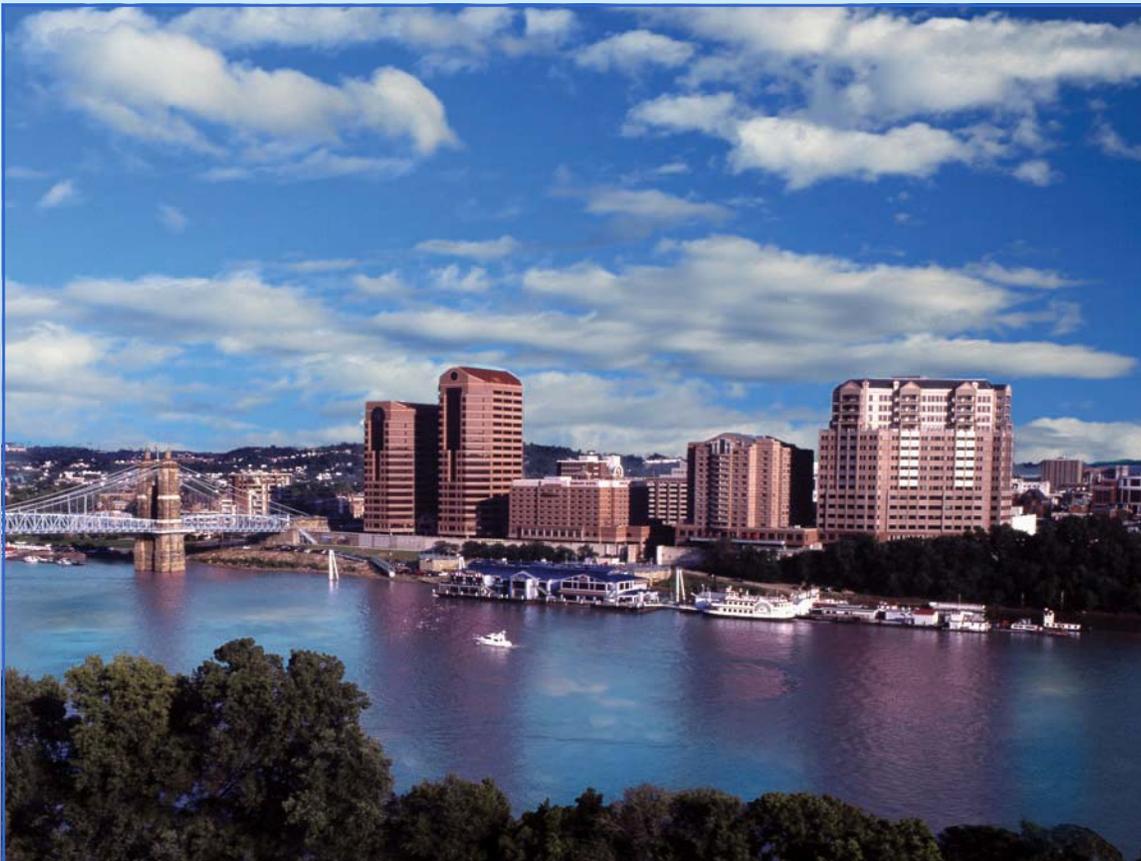
Jeffery A. Eger
General Manager

JAE/mm
Enclosures

Consent Decree Quarterly Report No. 01

(April 18, 2007 through December 31, 2007)

Sanitation District No. 1
January 30, 2008



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CERTIFICATION

Consent Decree Quarterly Report No. 01
Consent Decree Case No. 2:05-cv-00199-WOB

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.



Jeffery A. Eger
General Manager

Date January 28, 2008

COMMONWEALTH OF KENTUCKY

COUNTY OF Kenton)ss.

The foregoing instrument was acknowledged before me this 28 day of January, 2008 by Jeffery A. Eger, General Manager of Sanitation District No. 1.



NOTARY PUBLIC

State @ Large County, Kentucky

My commission expires: May 9, 2010

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CONSENT DECREE QUARTERLY REPORT NO. 01

January 30, 2008



Sanitation District No. 1

1045 Eaton Drive
Ft. Wright, KY 41017

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LIST OF ACRONYMS AND ABBREVIATIONS

Cabinet	Kentucky Environmental and Public Protection Cabinet
CMOM	Capacity, Management, Operation, and Maintenance
CSO	Combined Sewer Overflow
District	Sanitation District No. 1
EPA	U.S. Environmental Protection Agency
gbaMS	GBA Master Series (information tracking system)
KPDES	Kentucky Pollutant Discharge Elimination System
mgd	Million Gallons Per Day
NMC	Nine Minimum Controls
SSO	Sanitary Sewer Overflow

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SECTION 1. INTRODUCTION

1.1 Purpose

This Quarterly Report is submitted to fulfill the requirements of Sanitation District No. 1's (District) Consent Decree as entered on April 18, 2007. This Consent Decree is a legal agreement with the U.S. Environmental Protection Agency (EPA), the U.S. Department of Justice, and the Kentucky Environmental and Public Protection Cabinet (Cabinet). The purpose of the Consent Decree is to address sanitary sewer overflows (SSOs) in the District's sanitary sewer system and combined sewer overflows (CSOs) in the combined sewer system in an effort to improve water quality throughout the District's service area. Specifically, Section V Reporting Requirements, states that:

42. Quarterly Reports. The District shall submit to the Cabinet/EPA a quarterly report that describes the District's progress in complying with this Consent Decree for the previous quarter no later than thirty days after the end of each calendar quarter. The first such report shall be submitted to the Cabinet/EPA no later than thirty days after the second full quarter after entry of this Consent Decree.

Additionally, the Cabinet recently approved the use of these Quarterly Reports to satisfy the District's annual report requirement of Kentucky Pollutant Discharge Elimination System (KPDES) Permit Number KY0021466. Correspondence confirming this approval can be found in Appendix A.

1.2 Report Period

Information contained within this report describes the District's compliance with Consent Decree Case No. 2:05-cv-00199-WOB for the period of April 18, 2007 through December 31, 2007. Given that this is the first report, the report period covers three calendar quarters instead of only one to account for the first two calendar quarters after entry into the Consent Decree, as well as the most recent previous quarter required for this report. This report also contains an outlook for the upcoming calendar quarter period of January 1, 2008 through March 31, 2008.

1.3 Consent Decree Deadlines

2nd, 3rd, and 4th Quarter 2007 Report

The District has made significant progress in meeting the initial requirements of the Consent Decree. Table 1.1 outlines tasks the District has completed in achieving compliance with the Consent Decree during this first quarterly reporting period.

Table 1.1 Completed Consent Decree Tasks

Requirement	Consent Decree Deadline	Actual Completion/ Submission Date
Pay civil penalty in the amount of \$476,400	06/17/07	06/01/07
Grease Control Program (Proposed Plan)	10/18/07	9/18/07
Pump Station Overflow Elimination Plan	10/18/07	9/18/07
Sewer Overflow Response Plan	10/18/07	10/9/07
Set-up Six Escrow Accounts for State Environmental Projects	10/18/07	10/16/07
Capacity, Management, Operation, and Maintenance Self-Assessment	10/18/07	10/17/07
Pump Station Operation Plan for Backup Power	04/18/08	12/14/07
Capacity, Management, Operation, and Maintenance Annual Report	12/31/07	12/28/07

1st Quarter 2008 Outlook

Aside from the required submission date for this quarterly report, there are no Consent Decree deadlines during the first quarter of the 2008 calendar year.

SECTION 2. OVERFLOW DATA

This section of the Quarterly Report presents the District's estimates of overflow activity in the collection systems. As explained in previous communications with both the EPA and the Cabinet, the overflow data in this initial Quarterly Report will include a combination of qualitative information and quantitative estimates. While the District has a long history of comprehensive data collection and inspection programs, our existing programs were implemented to meet pre-Consent Decree needs and must be realigned and optimized to fit into the framework of the Quarterly Reports. This realignment is currently taking place as part of the District's wet-weather management activities, and future reports will incorporate expanded overflow metrics based on more quantitative measures.

Additionally, as the information contained within the required Consent Decree reports begins to be standardized, the District's computerized maintenance management system, GBA Master Series (gbaMS), will continue to be fine-tuned to help support these specific reporting needs and better track system performance. The District has been using gbaMS since 1999 and has added several modules and applications in response to evolving needs over the years. As we now have new uses for this tool after entering into the Consent Decree, we are undergoing adjustments to both the data input and output processes for gbaMS to generate more precise data for use in these quarterly reports. The District will continue to work on these adjustments throughout the

remainder of calendar year 2008. Until gbaMS is enhanced to meet these new needs, several numbers generated from this software program will be reported as “approximate.” As the District moves forward with structuring its reporting procedures, quality assurance and quality control issues regarding data input and output from gbaMS will be addressed.

For reporting and system performance measurement purposes, the District has categorized sewer overflows throughout the service area into five distinct categories:

- *Recurring SSOs* – Recurring overflows from the District’s sanitary sewer system, typically during wet weather. Overflows are determined to be “recurring” if they have been observed to overflow twice in a 12-month period. This category includes wet-weather discharges at pump stations that may or may not have a constructed bypass.
- *Non-recurring SSOs* – Overflows from the District’s sanitary sewer system, including pump stations, that have been observed to overflow less frequently than twice in a 12-month period. Many of these are one-time, dry-weather occurrences caused by temporary system issues that are investigated and corrected as soon as practicable.
- *Wet Weather CSOs* – Wet-weather discharges from the combined sewer system.
- *Dry Weather CSOs* – Dry-weather discharges from the combined sewer system.
- *Building Backups* – The release of raw sewage from a service lateral into a building in the District’s service area. Building backups can be caused by several factors, such as constrained capacity during wet weather or a blockage or collapse in the service lateral or main line, and can be determined to be either the District’s responsibility or the building owner’s responsibility.

The remainder of this section reports overflows that occurred throughout the District’s service area during the period of April 18, 2007 through December 31, 2007.

2.1 Recurring SSOs

As noted in the introduction to this section, this first Quarterly Report includes a combination of qualitative and quantitative information on recurring SSOs and associated overflow data. For future reporting, the District intends to ultimately use three general methods for developing quantitative estimates of recurring SSO activity:

- Field inspections during, or shortly after, wet-weather events to identify activations. This inspection program has been in place for approximately two years and will be expanded as warranted for ongoing reporting. The District’s wet weather crew continues to perform routine inspections before and after rain

events at the 106 recurring SSO locations. This is part of the District's ongoing effort to characterize overflows throughout the collections systems and ensure they are categorized accurately. Proper characterization of overflows will help identify the most appropriate and effective solutions to be included in the District's Watershed Plans. Results from this program are expected to be compiled and presented in the April 2008 and subsequent quarterly reports.

- Simple hydraulic estimating using Manning's Gravity Flow and Pipe Calculation to report overflows from pump stations with constructed bypasses. This method has been used historically for reporting purposes, and its results are already included in this initial Quarterly Report.
- Estimates developed from the District's system-wide collection system model. As part of developing the first set of Watershed Plans required under the Consent Decree, the District is currently completing a comprehensive recalibration and verification of this modeling tool, using 12 months of flow data collected at 245 flow monitoring locations. As discussed with both the EPA and the Cabinet in previous communications, the calibration and verification refinement process is scheduled for completion in June 2008. Therefore, beginning with the July 2008 Quarterly Report, the collection system model should be available for use as a tool for estimating recurring SSO activations and volume.

A complete listing of the District's 106 recurring SSO locations can be found in Appendix B. This list mirrors the original recurring SSO list found in Exhibit A of the District's Consent Decree. Estimated SSO occurrences and volume will be presented in future reports once the system-wide collection system models have been fully calibrated.

In addition to the 106 recurring SSOs, there are also 14 pump stations identified in the Consent Decree that have historically documented recurring wet weather capacity issues. The District submitted a Pump Station Overflow Elimination Plan to the EPA and the Cabinet on September 18, 2007 that provides the plan to identify watershed projects to eliminate overflows at these stations. Table 2.1 lists each of the 14 pump stations identified in Exhibit E of the Consent Decree and demonstrates their SSO occurrences during the current reporting period. The 14 pump stations listed in the Consent Decree discharged a total of 48 times during the current reporting period, with an estimated overflow volume of 7,687,000 gallons. As previously mentioned, the District uses Manning's Gravity Flow and Pipe Calculation to estimate discharge volume from pump stations. The only exception to this calculation methodology is at the Lakeview Pump Station, which has a metered bypass pipe.

Table 2.1 Discharges from Consent Decree Pump Stations
(April 18, 2007 – December 31, 2007)

Name of Pump Station	Number of Discharge Occurrences	Total Estimated Volume (gallons)
Alex-Licking	5	246,000
Allen-Fork	1	10,000
Crestview ¹	3	4,000
Harrison Harbor	0	0
Highland Acres	1	4,000
Kentucky Aire	7	238,000
Lakeview	7	6,875,000
Reilly Road ²	7	63,000
Ripple Creek ³	10	141,000
South Hampton ⁴	4	35,000
South Park	0	0
Sunset	2	70,000
Taylorport	1	1,000
Union	0	0
TOTAL	48	7,687,000

¹ Two of the bypasses at the Crestview Pump Station were caused by an electrical and power failure during dry weather.

² One of the bypasses at the Reilly Road Pump Station was caused by a force main break during dry weather, and one was caused by an operational error during dry weather.

³ Three of the bypasses at the Ripple Creek Pump Station were caused by electrical, power, and mechanical failures during dry weather.

⁴ Two of the bypasses at the South Hampton Pump Station were caused by power failures during dry weather.

In addition to tracking bypasses at the pump stations listed in the Consent Decree, the District continuously monitors all pump stations throughout the service area for wet weather capacity issues. During the current reporting period, there were four pump stations not listed in the Consent Decree that discharged during wet weather due to lack of capacity. Table 2.2 provides detailed information for these occurrences. As the District moves forward with developing the Watershed Plans required under the Consent Decree, priorities will be established based on severity and known wet weather issues will be addressed.

Table 2.2 Discharges from Pump Stations Not Listed in the Consent Decree Due to Lack of Capacity (April 18, 2007 – December 31, 2007)

Name of Pump Station	Number of Wet-Weather Related Discharge Occurrences	Total Estimated Volume (gallons)
American Sign	2	10,000
Bullitsville ¹	1	33,000
Highland Heights	10	1,229,000
Sand Run ¹	1	150
TOTAL	14	1,272,150

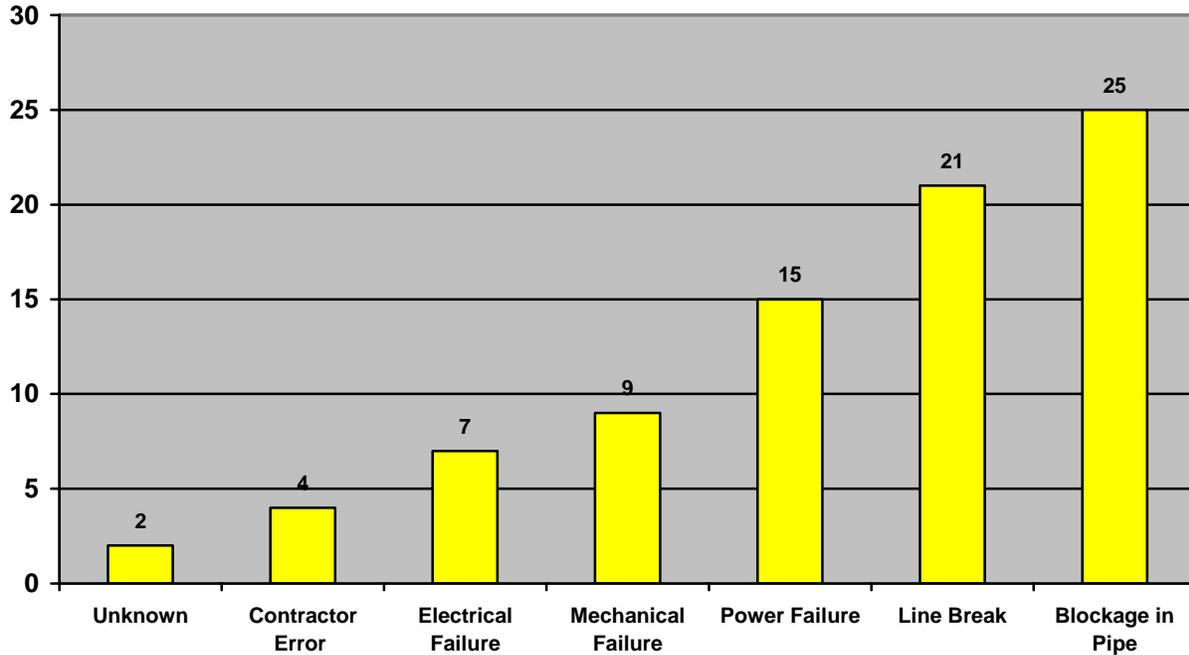
¹ Both of these occurrences happened during a 10-year storm event that lasted three days. The heaviest rain during these three days occurred on October 23, 2007, which is when both pump stations overflowed. Due to the extreme weather conditions, the District is not considering these as locations of recurring wet weather issues.

2.2 Non-recurring SSOs

During the current reporting period, there were a total of 83 non-recurring SSOs throughout the District's service area with a total estimated overflow volume of 2,330,000 gallons. As previously mentioned, this category of overflows includes discharges from the District's sanitary sewer system that have been observed to overflow less frequently than twice in a 12-month period. Included in this category are occurrences at pump stations that are not a result of wet weather capacity issues. Many of these are one-time, dry-weather occurrences caused by temporary system issues that are investigated and corrected as soon as practicable. Manning's Gravity Flow and Pipe Calculation is used to estimate discharge volume from any overflow release out of a pipe, and the volume estimation techniques and calculations outlined in Appendix C are used for spills or for any witnessed overflow from a manhole.

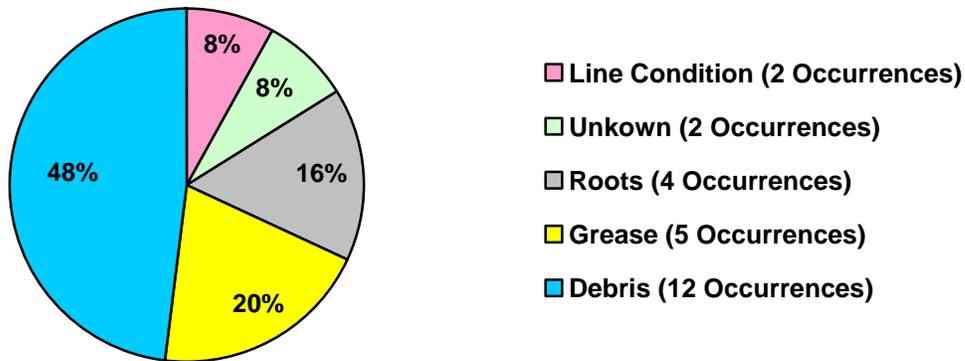
The 83 overflows reported in this category can be broken down by the primary causes demonstrated in Figure 2.1.

Figure 2.1 Causes for Non-recurring SSOs
(April 18, 2007 – December 31, 2007)



The 25 non-recurring SSOs caused by blockages can further be broken down into six secondary causes, as demonstrated in Figure 2.2 below.

Figure 2.2 Causes for Blockages in Pipes Resulting in Non-recurring SSOs
(April 18, 2007 – December 31, 2007)



All of these SSOs were immediately acted upon and the problems repaired. Where blockages and line breaks were found, the reasons for the blockages and breaks were identified and recorded in gbaMS. If deemed necessary, the sewers were then put on a preventive maintenance list to be checked in the next six months as part of our Continuous Sewer Assessment Program.

2.3 Wet Weather CSOs

Similar to developing quantitative estimates for recurring SSO activity, the District will ultimately use their system-wide collection system model for estimating wet-weather CSO activations and volume. As part of developing the first set of Watershed Plans required under the Consent Decree, the District is currently completing a comprehensive recalibration and verification of this modeling tool, using 12 months of flow data collected at 245 flow monitoring locations. As discussed with both the EPA and the Cabinet in previous communications, the calibration and verification refinement process is scheduled for completion in June 2008. Therefore, it is projected that the collection system models will be used as a tool for estimating wet-weather CSO metrics beginning with the July 2008 Quarterly Report.

For a current list of the District's 96 wet weather CSOs, refer to Appendix D.

2.4 Dry Weather CSOs

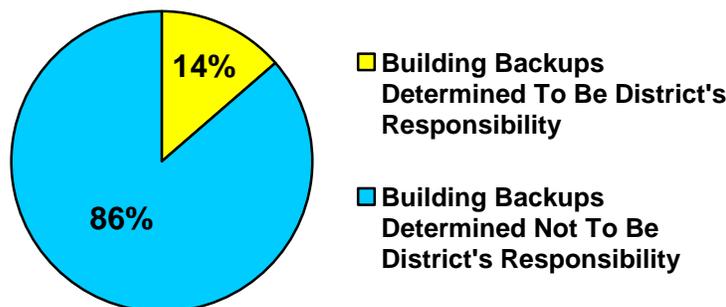
During the current reporting period, there were 14 CSOs during dry weather, with a total estimated discharge volume of 1,858,000 gallons. Of these 14 occurrences:

- 12 were due to blockages in the combined sewers
- 1 was due to an operational error with the tier drops
- 1 was due to a mechanical failure

2.5 Building Backups

During the current reporting period, there were approximately 446 building backups throughout the District's service area. Of these 446, approximately 61 were determined to be the District's responsibility and 385 were determined not to be the responsibility of the District, as shown in Figure 2.3. The backups that were determined not to be the responsibility of the District were due to causes such as breaks and blockages in private service laterals, failing septic systems, and water main breaks.

Figure 2.3 Building Backups: Public vs. Private
(April 18, 2007 – December 31, 2007)



Causes for the approximate 61 building backups determined to be the District's responsibility are detailed in Figure 2.4 below.

Figure 2.4 Causes of District-Responsible Building Backups
(April 18, 2007 – December 31, 2007)

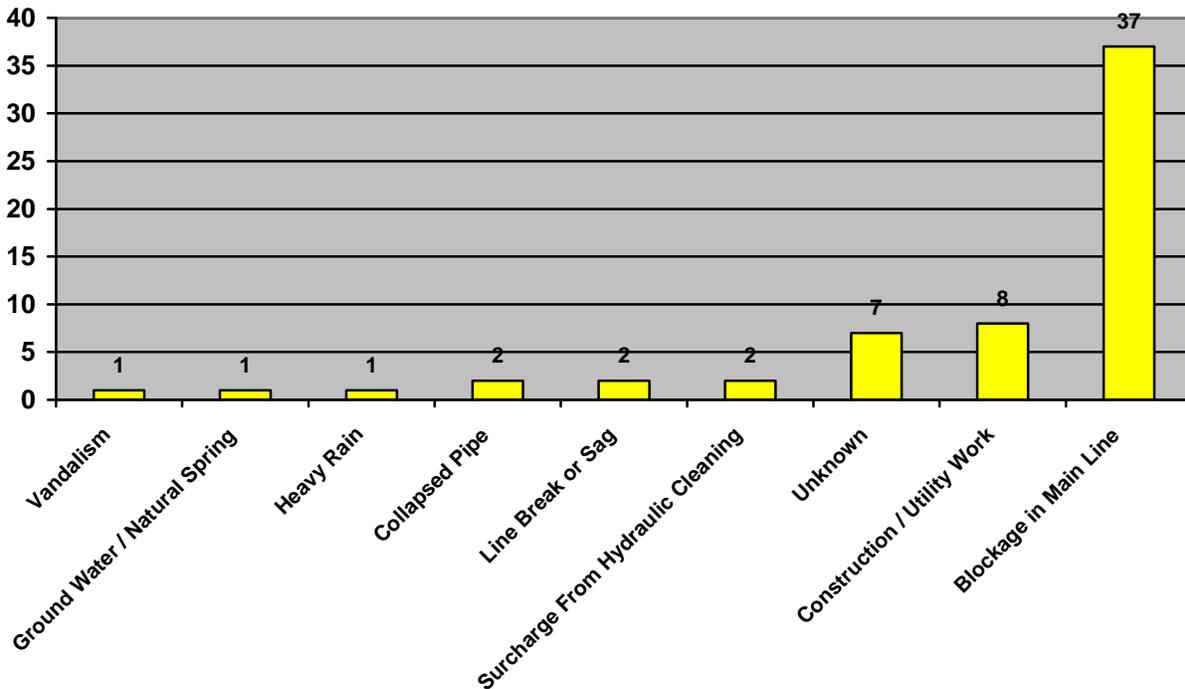
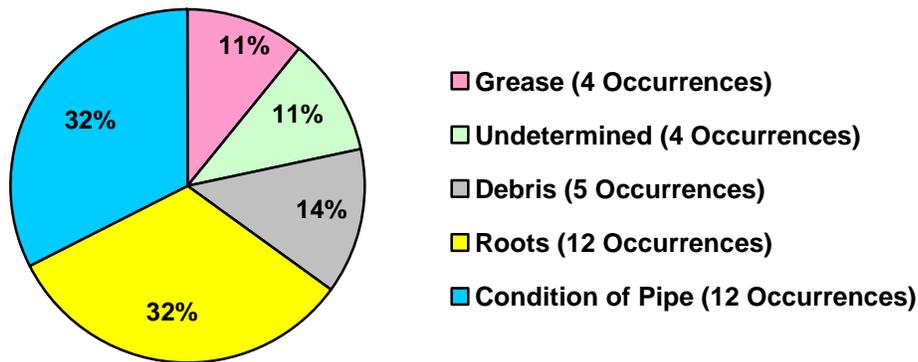


Figure 2.5 Causes for Blockage in Main Line Resulting in a Building Backup
(April 18, 2007 – December 31, 2007)



All of these backups were immediately acted upon and the problems repaired. Where blockages and line breaks were found, the reasons for the blockages and breaks were

identified and recorded in gbaMS. If deemed necessary, the sewers were then put on a preventive maintenance list to be checked in the next six months as part of our Continuous Sewer Assessment Program.

SECTION 3. INITIAL WATERSHED PROGRAM PROJECTS AND SUBMITTALS

A Gantt chart outlining the District's project schedule for meeting the requirements of the Consent Decree can be found in Appendix E. This project schedule includes tasks, responsible parties, and deadlines for the first five years of the Consent Decree (2007 through 2012). More detailed information regarding these tasks is contained throughout the remainder of this report.

3.1 Nine Minimum Controls (NMC) Compliance

2nd, 3rd, and 4th Quarter 2007 Report

- Completed a draft report demonstrating the status of compliance with the NMCs for CSOs as set forth in the CSO Control Policy. This report is currently undergoing internal review and will be submitted to the EPA and the Cabinet no later than April 18, 2008, as required under the Consent Decree. This documentation will include proposed projects and associated time schedules for ensuring compliance with the NMCs no later than April 18, 2009. This report will also provide comprehensive information regarding all of the District's NMC activities.

1st Quarter 2008 Outlook

- Finalize the NMC compliance report and submit prior to the April 18, 2008 deadline.

3.2 Capacity, Management, Operation, and Maintenance (CMOM)

3.2.1 CMOM Programs and Self-assessment

2nd, 3rd, and 4th Quarter 2007 Report

- The District performed an extensive self-assessment of all CMOM programs and activities in mid-2007. Over the course of approximately six months, the District involved nearly half of its workforce in interviews and workshops designed to take a critical look at activities related to collection system performance. Through this process, staff members identified performance goals and measures that will guide future operations and identified specific improvements for each program with corresponding deadlines for implementation. As required under the Consent Decree, a comprehensive CMOM Self-assessment Report was submitted to the EPA and the Cabinet on October 17, 2007.

- The self-assessment process mentioned above helped to structure and formalize the District's CMOM activities into the 34 programs listed in Table 3.1. These recently formalized CMOM programs will be used from this point forward to manage the collection systems' assets and operations.
- Internal report cycles have been established and CMOM Program Update Forms have been developed as a tool to stay consistently updated on CMOM activities throughout the year. This will help make information-gathering for the Annual Report more efficient.
- District staff continues to make progress on implementing the recommended improvements listed in the Self-assessment Report. Fourteen of the recommended improvements had a milestone date on or before December 31, 2007, and each of these tasks is either on or near schedule for completion.

Table 3.1 CMOM Programs

Management Programs	Operation Programs
Organizational Structure	Emergency Preparedness & Response
Communication & Customer Service	Safety
Legal Authority	Budgeting
Acquisition Considerations	Engineering
Information Management System	Call Before You Dig
Training	Water Quality Monitoring
System Mapping	Compliance
SSO Reporting & Notification	Mobile Waste Haulers
Maintenance Programs	Pump Station Operations
Manhole Repairs	Pump Station Emergencies
Rehabilitation & Replacement	Pump Station Force Mains PM
Mainline Sewer Repairs	Odor & Corrosion Control
Sewer Cleaning	Continuous Sewer Assessment
Equipment & Tools Maintenance	Smoke & Dye Testing
Pump Station Maintenance	Flow Monitoring
Maintenance of Rights-of-way	CCTV Inspection
Capacity Programs	Manhole Inspections
Capacity Assessment & Assurance	
New Connection Tap-In	

1st Quarter 2008 Outlook

- Per the internal, six-week CMOM report cycle schedule that has been established, annual report updates were submitted by staff members to the District's Consent Decree Reporting Manager on January 11, 2008 and will be submitted again on February 22, 2008. These updates include progress on the District's 34 CMOM programs.
- District staff will continue to make progress on implementing the recommended improvements listed in the Self-assessment Report. Seventeen of the recommended improvements have milestone dates within the period of January 1, 2008 through March 31, 2008.

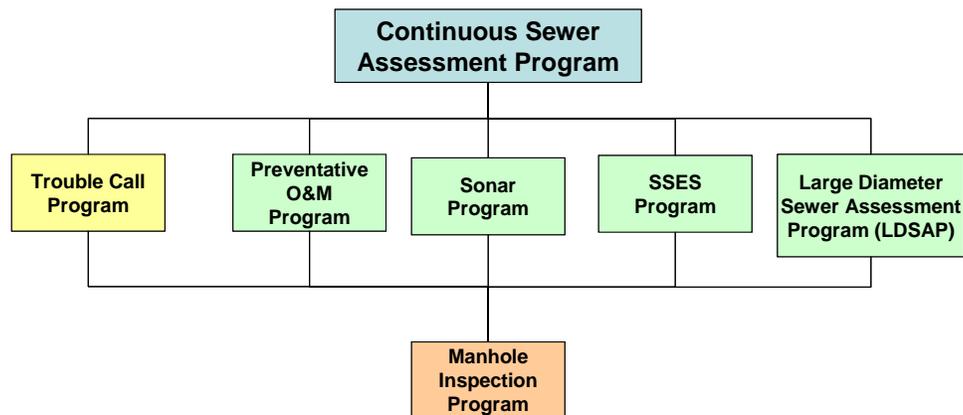
3.2.2 Continuous Sewer Assessment Program

2nd, 3rd, and 4th Quarter 2007 Report

- Over the past several months, the District has been working diligently to develop a formal Continuous Sewer System Assessment Program. The purpose of this program is to utilize a proactive and coordinated asset management-based approach to assessing the District's infrastructure's condition and life cycle, and managing rehabilitation/replacement of the system. Through implementation of this program, the District will be able to more effectively and proactively prioritize and implement system inspection, cleaning, and rehabilitation/replacement needs in order to identify and address wet weather inflow and infiltration sources, assure sufficient capacity in both dry and wet weather, and eliminate SSOs.

The District has identified six Operations & Maintenance programs that are incorporated into the larger-scale Continuous Sewer Assessment Program. Each of these programs includes an assessment phase followed by an action phase, which includes activities such as cleaning and rehabilitation/replacement. Figure 3.1 represents the overall structure of the Operations & Maintenance programs.

Figure 3.1 Structure of Continuous Sewer Assessment Program



One key feature of this formalized program is the prioritization of assets for assessment and subsequent rehabilitation or replacement. The entire collection system will be inspected over the course of a 10-year period in a logical, contiguous manner, with high-problem areas being inspected and addressed first.

The District is currently building up the resources needed to implement the program. This includes hiring additional field personnel, bringing in an outside firm to assist with the program's data integration and automation, finalizing program processes and procedures, and training staff on new procedures and software programs. The program was launched in January 2008.

1st Quarter 2008 Outlook

- The Continuous Sewer Assessment Program was launched in January 2008.
- Begin to work with an outside firm to provide data integration and automation services to assist the District with the collection, integration, automation, and analysis of the data collected from the Continuous Sewer Assessment Program.

3.2.3 Grease Control Program

2nd, 3rd, and 4th Quarter 2007 Report

- The District submitted its Grease Control Program: Proposed Phased Implementation Plan to the EPA and the Cabinet on September 18, 2007. The plan was formally approved on January 8, 2008 (subsequent to the current reporting period). Once all four phases of the Proposed Implementation Plan are complete, the newly revised Grease Control Program will include components such as ordinances, design standards, and expanded permitting, inspection and enforcement protocols.
- Two permitted Food Service Establishments were added to the Grease Control Program.
- District staff performed a total of 13 inspections of permitted Food Service Establishments, of which 11 were follow-up inspections and two were new inspections.
- There were 11 Notices of Violation issued to permitted Food Service Establishments in response to non-compliance with their Food Service Discharge Permit.
- There were 344,000 gallons of grease hauled to and disposed of at the Dry Creek Wastewater Treatment Plant.

1st Quarter 2008 Outlook

- District staff will be coordinating implementation of the recently approved Grease Control Program. Phase 1 of the Proposed Phased Implementation Plan will commence during this quarter, with the main focus on planning.

3.2.4 Pump Station Operation Plan for Backup Power

2nd, 3rd, and 4th Quarter 2007 Report

- As required under the Consent Decree, the District's Pump Station Operation Plan for Backup Power was submitted to the EPA and the Cabinet on December 14, 2007 (four months prior to the required submission date of April 18, 2008).
- Out of the 21 pump stations in Category 1, 17 backup power solutions have been installed, three are under construction, and one is under design. Category 1 includes pump stations that had backup power in place, in design, or in construction during the development of the Pump Station Operation Plan for Backup Power.

- Kahns Pump Station was eliminated by means of a gravity sewer as part of the Eastern Regional Collection System & Water Reclamation Facility Projects. This station is one of 21 pump stations included in Category 2, which are pump stations slated for elimination prior to December 31, 2015.
- Out of the 24 pump stations in Category 3, bids have been received for all generators. Four of these generators have already been purchased, of which three have been installed. The other 20 generators are on order. Category 3 includes the Initial Action Pump Stations, which are pump stations whose backup power solutions were being implemented simultaneously with the development of the Pump Station Operation Plan for Backup Power.

1st Quarter 2008 Outlook

- One station in Category 1 (American Sign Pump Station) is slated for generator installation and subsequent operation in March 2008.
- District staff will continue to move forward with determining the feasibility of eliminating the 14 Category 2B stations. These are pump stations that have the potential for elimination by gravity sewer construction.
- The fourth generator that has been purchased for Category 3 stations is scheduled to be installed at the Kentucky Aire Pump Station in early February 2008 and will be operational by the end of February 2008. At least a portion of the remaining 20 generators for Category 3 that are currently on order could possibly be delivered during this quarter. The generator manufacturer, however, has communicated that there is currently an extremely high demand for generators, and the original delivery schedules the District received have been delayed.

3.2.5 Sewer Overflow Response Plan

2nd, 3rd, and 4th Quarter 2007 Report

- As required under the Consent Decree, the District's Sewer Overflow Response Plan was submitted to the EPA and the Cabinet on October 9, 2007.
- A comprehensive Sewer Overflow Response Training Program has been developed, and every employee at the District will participate in some portion of the training (dependent on their role with the organization) between November 2007 and early 2008. A thorough training manual was developed as part of this program, which includes forms, reports, and procedural instructions. The training program consists of the following eight modules:
 - Module 1: Sewer Overflow Response Plan Overview
 - Module 2: How Sanitation District No. 1 Becomes Aware of an Overflow
 - Module 3: Sewer Overflow Response and Resources
 - Module 4: Notification
 - Module 5: Initial Response
 - Module 6: Mitigation of Condition
 - Module 7: Field Documentation
 - Module 8: Review of Clean-up, Containment, and Field Documentation

- As a result of the development of the new training program, overflow documentation procedures were enhanced. A gbaMS Field Overflow Report form was developed to provide better documentation of the overflow event from the response crew in the field. In addition, written protocols and checklists have been developed to assure overflows are documented consistently and to assure pertinent information is accurately inputted into gbaMS for recordkeeping purposes.

1st Quarter 2008 Outlook

- The District received one comment regarding the Sewer Overflow Response Plan submission from the EPA and the Cabinet on January 8, 2008. The District is currently preparing a response to this comment and will submit our response within the 60-day time period required under the Consent Decree.
- The new Sewer Overflow Response Training Program will continue throughout early 2008 and will be repeated annually.

3.3 Initial Watershed Program Project List

2nd, 3rd, and 4th Quarter 2007 Report

- Out of the 51 Initial Watershed Projects listed in Exhibit D of the Consent Decree, 34 are complete, nine are under construction, and eight are associated with the Western Regional Water Reclamation Facility and associated conveyance system, which is scheduled for completion by the end of 2013. (Detailed project information will be included in the Initial Watershed Projects Annual Report, which is scheduled to be submitted to the EPA and the Cabinet no later than April 18, 2008.)
- A listing of the Initial Watershed Projects, including current status, project updates for the current reporting period, and planned activity for the subsequent calendar year quarter can be found in Appendix F.

1st Quarter 2008 Outlook

- Complete a draft of the Initial Watershed Projects Annual Report, which is due to the EPA and the Cabinet by April 18, 2008.
- A listing of the Initial Watershed Projects, including current status, project updates for the current reporting period, and planned activity for the subsequent calendar year quarter can be found in Appendix F.

3.4 Pump Station Plan

2nd, 3rd, and 4th Quarter 2007 Report

- The District's Pump Station Overflow Elimination Plan was submitted to the EPA and the Cabinet on September 18, 2007.
- Addendum 01 to the Pump Station Overflow Elimination Plan was submitted to the EPA and the Cabinet on November 6, 2007.

1st Quarter 2008 Outlook

- The District received three comments regarding the Pump Station Overflow Elimination Plan submission from the EPA and the Cabinet on January 8, 2008. The District is currently preparing a response to these comments and will submit our response within the 60-day time period required under the Consent Decree.
- The District will continue to calibrate the system-wide collection system hydraulic model, which will be used to evaluate capacity issues at the pump stations identified in the Pump Station Overflow Elimination Plan. This is the first task in moving forward with the implementation schedule included in this report. The District expects to have a fully calibrated hydraulic model in place by June 30, 2008.

SECTION 4. WATERSHED PLANS

4.1 Framework for Developing the Watershed Plans

2nd, 3rd, and 4th Quarter 2007 Report

- The Framework document has been drafted and is currently undergoing internal review.

1st Quarter 2008 Outlook

- Obtain public input on the Framework from the Watershed Community Council at the February 26, 2008 meeting.
- Consider public comments and continue to finalize the Framework, which is scheduled for submission to the EPA and the Cabinet by April 18, 2008.

4.2 Watershed Plans

Comprehensive research and data collection efforts have begun to help develop the first round of Watershed Plans, which are due no later than June 30, 2009. The remainder of this section describes some of the District's initial planning and data collection efforts.

4.2.1 Hydraulic Modeling

2nd, 3rd, and 4th Quarter 2007 Report

- The District's main collection system is divided into three service areas – Taylorsport, Dry Creek, and Bromley. Hydraulic models have been developed for each of these three service areas. The District has also developed hydraulic models of the new Western Regional Water Reclamation Facility & Conveyance System in Boone County and Eastern Regional Water Reclamation Facility & Conveyance System in Campbell County. The modeling program began in 2001, and these models are continually undergoing further calibration and verification

to improve accuracy in assessing the system's dry and wet weather capacity for identification of capacity limitations and overflows.

- There are currently 245 flow meters and 45 rain gauges installed in the collection system to help characterize priority areas and understand capacity limitations to support the development of the Watershed Plans in the Consent Decree. The meters and gauges will be monitored for one year to assess dry and wet weather capacity under varying seasons and groundwater levels. This data will then be used to update the calibration and verification of the District's hydraulic models. Once fully calibrated and verified, these models will be used to further address dry and wet weather capacity limitations and overflows in these parts of the sewer system.

1st Quarter 2008 Outlook

- The system-wide collection system hydraulic model will continue to be calibrated and verified.

4.2.2 Water Quality Modeling

2nd, 3rd, and 4th Quarter 2007 Report

- The District is in the process of developing three water quality modeling tools to help produce the first round of Watershed Plans:
 - The Watershed Assessment Tool contains a comprehensive inventory of pollutant sources across the 16 watersheds and 128 subwatersheds within the District's service area. The tool then ranks the potential pollution caused by these sources so that the District can prioritize watersheds and sources for development of controls.
 - The Banklick Creek Watershed Model simulates the buildup and washoff of pollutants in the watershed and how those pollutants are transported instream in Banklick Creek and its tributaries. The District can then simulate the benefit that proposed CSO, SSO, and other watershed controls will have on reducing violations of water quality in Banklick Creek.
 - The Ohio River Model simulates the bacteria concentrations in the river that result from CSOs and SSOs and the various Ohio River tributaries. The Ohio River Model is being developed in partnership with the Metropolitan Sewer District of Greater Cincinnati. The District is including the Lower Licking River and the lower portion of Banklick Creek as water quality in these water bodies is affected by backwater conditions from the Ohio River.

1st Quarter 2008 Outlook

- Water quality modeling activities will continue throughout this quarter to help characterize the watersheds in the District's service area and help support the development of the Watershed Plans.

4.2.3 Watershed Characterization

2nd, 3rd, and 4th Quarter 2007 Report

- Instream water quality and overflow data is currently being collected to help characterize watersheds in the District's service area. This data will play an integral role in the watershed planning process as the District begins to prioritize, design, and implement solutions to address CSOs and SSOs. This data helps the District to better understand the constituents in the overflows through pollutant concentrations and loadings and the impact that the discharges have on the surrounding environment. The data will also be used to help develop the hydraulic and water quality models discussed in the previous section.
- The District is currently running two distinct monitoring programs that aid in characterizing the watersheds – the Watershed Monitoring Program and the Outfall Sampling Program. The purpose of the District's Watershed Monitoring Program is to collect instream water quality, habitat, macroinvertebrate, and fish data. This program includes baseline sampling throughout Northern Kentucky watersheds, and event-based and biological sampling in key watersheds. The purpose of the Outfall Sampling Program is to provide data on pollutant concentrations in the SSOs, CSOs, and storm water discharges in order to effectively characterize the District's infrastructure. This program is currently being instituted at 20 outfall locations throughout the system.
- To supplement the monitoring programs the District is producing Watershed Characterization Reports for 16 watersheds in the Northern Kentucky area, which include Fourmile, Twelvemile, Threemile, Taylor, Pleasant Run, Dry Creek, Banklick, Licking, Big Bone, Gunpowder, Woolper, Elijahs, Sand Run, Ohio River East, Ohio River North, and Ohio River West. These reports will provide a comprehensive description of the physical characteristics that influence the health of each watershed. Preliminary drafts for all 16 watersheds are complete and undergoing review.

1st Quarter 2008 Outlook

- Both the Watershed Monitoring Program and the Outfall Sampling Program will continue to be implemented during this quarter.
- The Watershed Characterization Reports will continue to be reviewed and edited by both internal staff and external consultants.

4.3 Public Participation

2nd, 3rd, and 4th Quarter 2007 Report

- On August 30, 2007, the District hosted a public Watershed Summit to inform the community about watershed protection efforts underway in Northern Kentucky. The first hour of the event was held in an open-house format, providing an opportunity for local environmental organizations to share their mission and watershed protection initiatives with the public. A total of 18 local organizations participated by hosting a booth at the open house. Following this portion of the

evening, the District provided a formal presentation regarding their watershed-based Consent Decree. This presentation included an expert panel of representatives from the EPA and the Cabinet.

- The Watershed Summit was also used to kick-off the formation of a Watershed Community Council. The District has chosen to create this Council to help facilitate open, thoughtful discussion and information sharing opportunities amongst a diverse group of stakeholders in Northern Kentucky regarding the watershed planning process. The District accepted applications for membership through the end of October 2007. After an overwhelming response from several key stakeholder groups such as environmentalists, local leaders, developers, and citizens, the District invited all 55 applicants to become members of the Council. Refer to Appendix G for a complete listing of all council members and their affiliations.
- Two assistant professors from Northern Kentucky University were hired to co-facilitate the Watershed Community Council meetings throughout the remainder of the 2008 calendar year.
- The first Watershed Community Council meeting was held on November 27, 2007. This first meeting served as an orientation. After a brief introduction by both the co-facilitators and the District's General Manager, each Council member was given the opportunity to state why they were interested in participating in the Council and what their expectations were for the group.

1st Quarter 2008 Outlook

- The next meeting of the Watershed Community Council is scheduled for February 26, 2007. During this meeting, the District will obtain input from the Council on the Watershed Framework.

SECTION 5. REPORTING REQUIREMENTS

5.1 Quarterly Reports

2nd, 3rd, and 4th Quarter 2007 Report

- Reviewed other utilities' reports to help determine structure and content for the District's first Quarterly Report.

1st Quarter 2008 Outlook

- The District's first Quarterly Report will be completed and shipped to the EPA and the Cabinet no later than January 30, 2008.

5.2 Annual Reports

2nd, 3rd, and 4th Quarter 2007 Report

- The District's first CMOM Annual Report was submitted to the EPA and the Cabinet on December 28, 2007.
- Report cycles have been established and CMOM Program Update Forms have been developed as a tool for the District's Consent Decree Reporting Manager to stay consistently updated on CMOM activities throughout the year. This will help make information-gathering for the Annual Report more efficient.

1st Quarter 2008 Outlook

- Per the internal, six-week CMOM report cycle schedule that has been established, annual report updates were submitted by staff members to the District's Consent Decree Reporting Manager on January 11, 2008 and will be submitted again on February 22, 2008. These updates include progress on the District's 34 CMOM programs.

SECTION 6. CIVIL PENALTY

2nd, 3rd, and 4th Quarter 2007 Report

- As required under the Consent Decree, a civil penalty in the amount of \$338,200 was paid to the Kentucky State Treasurer on June 1, 2007.
- As required under the Consent Decree, a civil penalty in the amount of \$138,200 was paid to the United States Department of Justice on June 1, 2007.

1st Quarter 2008 Outlook

- All civil penalty requirements outlined in the Consent Decree have been fulfilled. There will be no additional progress to report on this task from this point forward.

SECTION 7. SUPPLEMENTAL ENVIRONMENTAL PROJECT

2nd, 3rd, and 4th Quarter 2007 Report

- Internal meetings were held during the summer of 2007 to develop a plan for moving forward with the Supplemental Environmental Projects as required by the Consent Decree. Through these meetings, it was decided to focus the scope of this program towards the reimbursement of costs for residential property owners associated with sanitary lateral repair/replacement and illicit discharge correction projects. Through this program, approved homeowners are eligible to receive grants between \$1,000 and \$2,000, dependent on their income level.
- Income eligibility requirements for financial assistance based on U.S. Department of Housing and Urban Development policies were developed.

- Grant applications and informational flyers promoting this new program were developed and began to be distributed in the fall of 2007. District employees distribute promotional program materials to homeowners when they are alerted about a problem with a private service lateral or illicit connection.
- As of December 31, 2007, the District had distributed a total of \$6,500 to five residential property owners through the Supplemental Environmental Project Program. One-hundred percent of these funds were used toward the repair or replacement of failing sanitary sewer laterals.

1st Quarter 2008 Outlook

- The District will continue to implement this program by distributing flyers, reviewing any submitted applications, and potentially granting funds upon approval.

SECTION 8. STATE ENVIRONMENTAL PROJECTS

2nd, 3rd, and 4th Quarter 2007 Report

- As required under the Consent Decree, the District deposited a total of \$325,000.00 into the following six interest-bearing escrow accounts on October 16, 2007:
 - \$75,000 in Consent Decree Boone County Conservancy Account
 - \$75,000 in Consent Decree Campbell County Conservancy Account
 - \$75,000 in Consent Decree Kenton County Conservancy Account
 - \$70,000 in Consent Decree Licking River Watershed Watch Account
 - \$25,000 in Consent Decree State Environmental Public Education Projects Account
 - \$5,000 in Consent Decree Split Rock Conservation Park Project Account
- The following four documents were completed and sent to the Boone County Conservancy, Licking River Watershed Watch, and Split Rock Conservation Park:
 - Notice of Availability
 - Application for Funding
 - Award Conditions & Procedures
 - Status/Completion Report
- Completed application material was received from the Licking River Watershed Watch. A requested disbursement of \$17,500 was granted by the District's Board of Directors on September 25, 2007, and the check was issued on November 29, 2007. The Licking River Watershed Watch plans to make annual disbursement requests from the District throughout the duration of the program (five years from the date of entry into the Consent Decree).
- Completed application material was received from the Split Rock Conservation Park. A requested disbursement of \$5,000 was granted by the District's Board of Directors on November 20, 2007, and the check was issued on December 12, 2007. As this is the full amount of the original monies allotted to Split Rock

Conservation Park under the State Environmental Projects Program, there may only be nominal interest funds to disperse in the future.

1st Quarter 2008 Outlook

- Completed application materials have not yet been received from Boone County Conservancy. It is anticipated, however, that they will continue to discuss project ideas with the District during this quarter.

APPENDIX A:
Regulatory Correspondence

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ERNIE FLETCHER
GOVERNOR

ENVIRONMENTAL AND PUBLIC PROTECTION CABINET

DEPARTMENT FOR ENVIRONMENTAL PROTECTION

DIVISION OF ENFORCEMENT

14 REILLY ROAD

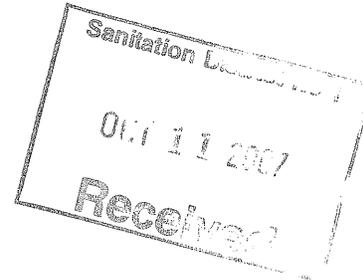
FRANKFORT, KENTUCKY 40601

www.ky.gov

TERESA J. HILL
SECRETARY

October 1, 2007

Amanda Waters, esq.
Sanitation District No. 1
1045 Eaton Dr.
Fort Wright, KY 41017



Brenda Lowe, esq.
Office of Legal Services
Fifth Floor, Capital Plaza Tower
Frankfort, KY 40601

RE: Annual Reporting Amendment Request
Case No.: DOW 060148
AI Name: Sanitation District No. 1
AI No.: 7556
Activity No.: EAO 20070001
Facility ID: KPDES KY0021466
County: Campbell

Amanda

Dear Ms. Waters:

Per your request dated September 21, 2007, Sanitation District No. 1 is approved to use the Consent Decree quarterly reports to satisfy the annual report requirement of KPDES Permit Number KY0021466. Please contact Amanda Mullen at (502) 564-2225, ext. 659, if you have any questions.

Sincerely,

Jeffrey A. Cummins, Acting Director
Division of Enforcement

Cc: Brenda Lowe

JAC/dam

cc: mark
Jeff
Maggie

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APPENDIX B:
Recurring SSO Locations

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RECURRING SSO LOCATIONS

No.	Associated SRP Manhole Number	City	County
1	0010161	Melbourne	Campbell
2	0020014	Unincorporated Campbell County	Campbell
3	0020034	Unincorporated Campbell County	Campbell
4	0050022	Ft. Thomas	Campbell
5	0060001	Unincorporated Campbell County	Campbell
6	0060002	Unincorporated Campbell County	Campbell
7	0090002	Highland Heights	Campbell
8	0100001	Unincorporated Campbell County	Campbell
9	0110010	Unincorporated Campbell County	Campbell
10	0130064	Cold Spring	Campbell
11	0140113	Highland Heights	Campbell
12	0150016	Southgate	Campbell
13	0150315	Southgate	Campbell
14	0150320	Southgate	Campbell
15	0150090	Southgate	Campbell
16	0160007	Ft. Thomas	Campbell
17	0160017	Ft. Thomas	Campbell
18	0170003	Ft. Thomas	Campbell
19	0200001	Ft. Thomas	Campbell
20	0220010	Ft. Thomas	Campbell
21	0230055	Ft. Thomas	Campbell
22	0250003	Ft. Thomas	Campbell
23	0260014	Ft. Thomas	Campbell
24	0300014	Ft. Thomas	Campbell
25	0300063	Ft. Thomas	Campbell
26	0310062	Ft. Thomas	Campbell
27	0330009	Ft. Thomas	Campbell
28	0340035	Ft. Thomas	Campbell
29	0370002	Ft. Thomas	Campbell
30	0410010	Ft. Thomas	Campbell
31	0410014	Ft. Thomas	Campbell
32	0410019	Ft. Thomas	Campbell
33	0410036	Ft. Thomas	Campbell
34	0410068	Newport	Campbell
35	0440074	Dayton	Campbell
36	0490001	Newport	Campbell
37	0490073	Newport	Campbell
38	0500003	Newport	Campbell
39	0520004	Newport	Campbell
40	0530083	Bellevue	Campbell
41	0550021	Bellevue	Campbell
42	0550022	Bellevue	Campbell
43	0690008	Newport	Campbell
44	0700004	Newport	Campbell
45	0860016	Wilder	Campbell
46	1090069	Edgewood	Kenton
47	1110025	Erlanger	Kenton
48	1110067	Erlanger	Kenton
49	1130002	Erlanger	Kenton

No.	Associated SRP Manhole Number	City	County
50	1160004	Crestview Hills	Kenton
51	1190007	Erlanger	Kenton
52	1220029	Erlanger	Kenton
53	1240008	Erlanger	Kenton
54	1280008	Erlanger	Kenton
55	1560016	Ft. Mitchell	Kenton
56	1560019	Ft. Mitchell	Kenton
57	1560034	Ft. Mitchell	Kenton
58	1560074	Ft. Mitchell	Kenton
59	1570100	Ft. Mitchell	Kenton
60	1580034	Ft. Mitchell	Kenton
61	1590006	Lakeside Park	Kenton
62	1600005	Lakeside Park	Kenton
63	1600029	Lakeside Park	Kenton
64	1600049	Lakeside Park	Kenton
65	1600050	Lakeside Park	Kenton
66	1600059	Lakeside Park	Kenton
67	1600110	Lakeside Park	Kenton
68	1600113	Lakeside Park	Kenton
69	1610102	Ft. Mitchell	Kenton
70	1610114	Crescent Park	Kenton
71	1610115	Crescent Park	Kenton
72	1620001	Ft. Mitchell	Kenton
73	1630012	Crescent Springs	Kenton
74	1650063	Ft. Mitchell	Kenton
75	1680001	Unincorporated Kenton County	Kenton
76	1690043	Ft. Wright	Kenton
77	1700025	Park Hills	Kenton
78	1730110	Bromley	Kenton
79	1760047	Edgewood	Kenton
80	1760048	Edgewood	Kenton
81	1820014	Villa Hills	Kenton
82	1830017	Unincorporated Boone County	Boone
83	1830020	Erlanger	Kenton
84	1890001	Lakeside Park	Kenton
85	1890010	Lakeside Park	Kenton
86	1890011	Lakeside Park	Kenton
87	1900028	Cold Spring	Campbell
88	1920291	Cold Spring	Campbell
89	1950199	Ft. Wright	Kenton
90	1950PS1	Ft. Wright	Kenton
91	1960012	Edgewood	Kenton
92	2030097	Edgewood	Kenton
93	2090001	Elsmere	Kenton
94	2090026	Elsmere	Kenton
95	2120002	Elsmere	Kenton
96	2130024	Villa Hills	Kenton
97	2150050	Crestview	Campbell
98	2150131	Cold Spring	Campbell
99	2150132	Cold Spring	Campbell
100	2160036	Ft. Mitchell	Kenton
101	2250ALE	Unincorporated Campbell County	Campbell

No.	Associated SRP Manhole Number	City	County
102	2280011	Unincorporated Kenton County	Kenton
103	2380001	Unincorporated Boone County	Boone
104	2390002	Unincorporated Boone County	Boone
105	2390006	Unincorporated Boone County	Boone
106	2120041	Elsmere	Kenton

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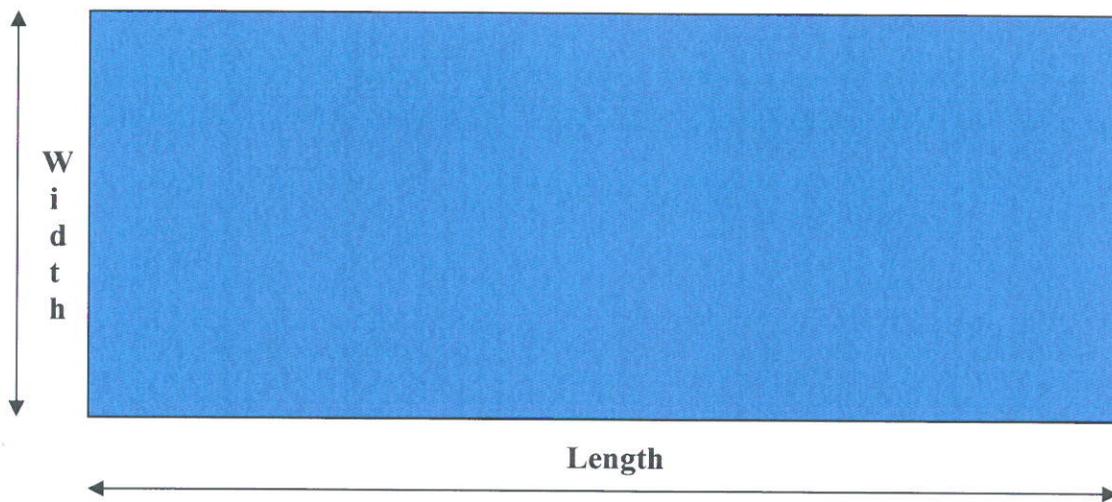
APPENDIX C:

Volume Estimation Techniques and Calculations

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Discharge Volume Estimation

Calculating Rectangular Spill Areas



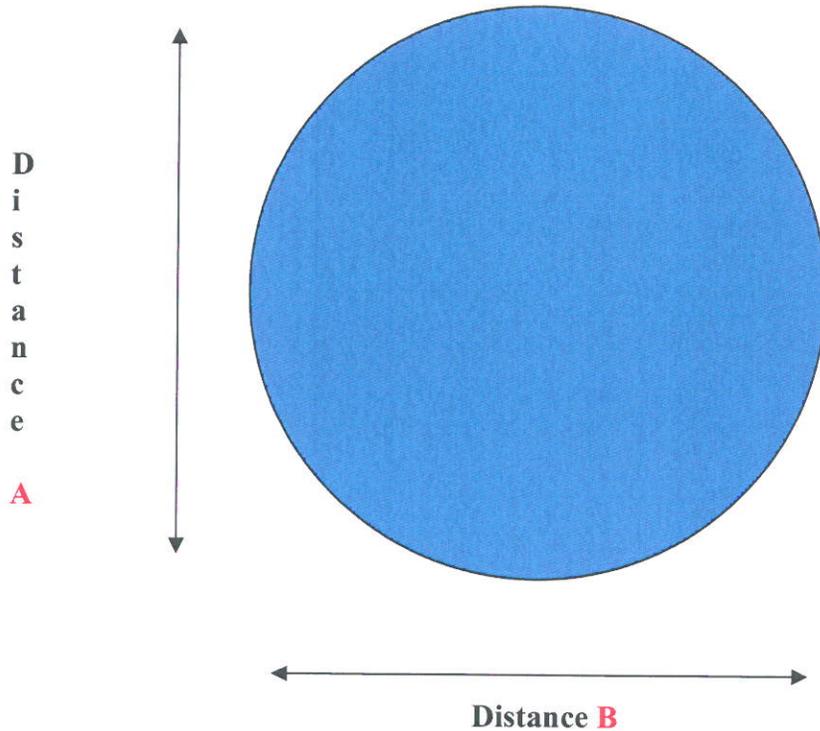
Example: Approximate length of the spill area - 100 feet
 Approximate Width of the spill area - 50 feet
 Approximate Depth of the spill area - 0.5 feet
 (convert inches to feet by dividing by 12)
 6 inches divided by 12 = .5 feet

Estimated volume would be: $100 \times 50 \times .5 = 2,500$ cu. ft.

Each cu. ft. will contain 7.48 gallons of sewage

Estimated Discharge Volume would be: $2,500 \times 7.48 = 18,700$ gallons spilled

Calculating Circular or Pond Spill Areas



Example:

Approximate Length of Distance A -	100 feet
Approximate Length of Distance B -	100 feet
Approximate Depth of the spill area -	0.5 feet

(convert inches to feet by dividing by 12)
6 inches divided by 12 = .5 feet

Estimated volume would be: $100 \times 100 \times 0.5 \times 0.7^* = 3,500$ cu. ft.

*Factor for estimating area of a circle as
a portion of the area of a square is 0.7

Each cu. ft. will contain 7.48 gallons of sewage

Estimated Discharge Volume would be: $3,500 \times 7.48 = 26,180$ gallons

Discharge Volume Estimation for Manholes

1 Rim/Casting On		Manhole Overflow Condition Gallons						
	1 Hour	3 Hours	6 Hours	12 Hours	24 Hours	36 Hours	48 Hours	
A	2,300	6,800	14,000	27,000	54,000	81,000	110,000	
B	11,000	34,000	68,000	140,000	270,000	410,000	540,000	

2 Manhole Lid 1/4 Off		Manhole Overflow Condition Gallons						
Avg. Depth of Water above Rim/Casting (Ft.)	1 Hour	3 Hours	6 Hours	12 Hours	24 Hours	36 Hours	48 Hours	
A 0.5	27,000	81,000	160,000	320,000	650,000	970,000	1,300,000	
B 1	81,000	240,000	490,000	970,000	1,900,000	2,900,000	3,900,000	
C 2	180,000	540,000	1,100,000	2,200,000	4,300,000	6,500,000	8,600,000	
D 3	220,000	660,000	1,300,000	2,600,000	5,300,000	7,900,000	11,000,000	
E 4	260,000	770,000	1,500,000	3,100,000	6,200,000	9,200,000	12,000,000	
F 5	280,000	850,000	1,700,000	3,400,000	6,800,000	10,000,000	14,000,000	

3 Manhole Lid 1/2 Off		Manhole Overflow Condition Gallons						
Avg. Depth of Water above Rim/Casting (Ft.)	1 Hour	3 Hours	6 Hours	12 Hours	24 Hours	36 Hours	48 Hours	
A 0.5	54,000	160,000	320,000	650,000	1,300,000	1,900,000	2,600,000	
B 1	160,000	470,000	950,000	1,900,000	3,800,000	5,700,000	7,600,000	
C 2	360,000	1,100,000	2,200,000	4,300,000	8,600,000	13,000,000	17,000,000	
D 3	440,000	1,300,000	2,600,000	5,300,000	11,000,000	16,000,000	21,000,000	
E 4	510,000	1,500,000	3,100,000	6,100,000	12,000,000	18,000,000	24,000,000	
F 5	570,000	1,700,000	3,400,000	6,900,000	14,000,000	21,000,000	27,000,000	

		Manhole Overflow Condition									
		Gallons									
4	Manhole Lid Completely Off										
	Avg. Depth of Water above Rim/Casting (Ft.)	1 Hour	3 Hours	6 Hours	12 Hours	24 Hours	36 Hours	48 Hours			
A	0.5	110,000	340,000	680,000	1,400,000	2,700,000	4,100,000	5,400,000			
B	1	320,000	960,000	1,900,000	3,800,000	7,700,000	12,000,000	16,000,000			
C	2	720,000	2,200,000	4,300,000	8,600,000	17,000,000	26,000,000	35,000,000			
D	3	890,000	2,700,000	5,300,000	11,000,000	21,000,000	32,000,000	43,000,000			
E	4	1,000,000	3,100,000	6,100,000	12,000,000	25,000,000	37,000,000	49,000,000			
F	5	1,100,000	3,400,000	6,900,000	14,000,000	27,000,000	41,000,000	55,000,000			

Another method of calculating the approximate discharge volume is as follows: If you are dealing with a spill that has been running into a stream or storm drain, you must estimate the gallons by the amount of time of the overflow times the number of connections on the sewer line upstream of the overflow. (assume 240 gallons per household per 24 hours. **EXAMPLE:** If you have a line with 6 houses upstream of the overflow and it has been overflowing for 24 hours then - $6 \times 240 = 1,440$ gallons spilled. If the overflow is less than 24 hours in duration, then the calculation must be prorated the daily sewage generation rate. **EXAMPLE:** If you have 60 houses on a lined that has been overflowing for 2 hours then - $60 \times 240 \times 2/24 = 1,200$ gallons spilled. **Another EXAMPLE is :** If you have 6 houses on a line that has been overflowing for 12 hours then - $6 \times 240 \times 12/24 = 720$ gallons spilled.

APPENDIX D:
Wet Weather CSOs

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Wet Weather CSOs

No.	CSO ID	KPDES Permit #
1	1870194	KY0021466 - Outfall 79
2	1850158	KY0021466 - Outfall 76
3	1870193	KY0021466 - Outfall 78
4	1510199	KY0021466 - Outfall 67
5	1840130	To Be Permitted
6	0880081	KY0021466 - Outfall 36
7	0570089	KY0021466 - Outfall 16
8	0840116	KY0021466 - Outfall 27
9	0570090	KY0021466 - Outfall 17
10	0790086	KY0021466 - Outfall 29
11	1480187	KY0021466 - Outfall 30
12	0640090	KY0021466 - Outfall 24
13	1420142	KY0021466 - Outfall 51
14	0840111	To Be Permitted
15	0910068	KY0021466 - Outfall 37
16	0980081	KY0021466 - Outfall 48
17	1500131	KY0021466 - Outfall 66
18	0840112	To Be Permitted
19	1490132	KY0021466 - Outfall 65
20	0630061	KY0021466 - Outfall 83
21	0790084	KY0021466 - Outfall 31
22	0650090	KY0021466 - Outfall 26
23	0910065	KY0021466 - Outfall 38
24	0610071	KY0021466 - Outfall 21
25	0620075	KY0021466 - Outfall 23
26	0880082	KY0021466 - Outfall 35
27	0600104	To Be Permitted
28	0600097	KY0021466 - Outfall 19
29	0540009	To Be Permitted
30	0540044	To Be Permitted
31	0600094	KY0021466 - Outfall 18
32	0610072	KY0021466 - Outfall 20
33	0620077	KY0021466 - Outfall 22
34	0930105	KY0021466 - Outfall 41
35	1440209	KY0021466 - Outfall 56
36	1470093	KY0021466 - Outfall 63
37	1720109	KY0021466 - Outfall 73
38	1880091	KY0021466 - Outfall 80
39	0960063	KY0021466 - Outfall 45
40	1710116	KY0021466 - Outfall 68
41	0600096	To Be Permitted
42	0770096	KY0021466 - Outfall 28
43	0870079	KY0021466 - Outfall 34
44	0930104	KY0021466 - Outfall 40
45	0930106	KY0021466 - Outfall 39
46	1420144	KY0021466 - Outfall 52
47	1420145	KY0021466 - Outfall 53
48	1420147	KY0021466 - Outfall 55

No.	CSO ID	KPDES Permit #
49	1440206	KY0021466 - Outfall 61
50	1440212	KY0021466 - Outfall 58
51	1730263	KY0021466 - Outfall 74
52	0870078	KY0021466 - Outfall 33
53	1350155	KY0021466 - Outfall 49
54	1420141	KY0021466 - Outfall 50
55	1440205	KY0021466 - Outfall 60
56	1710114	KY0021466 - Outfall 69
57	1710119	KY0021466 - Outfall 70
58	1710121	KY0021466 - Outfall 71
59	1880090	KY0021466 - Outfall 81
60	0550024	To Be Permitted
61	0930102	KY0021466 - Outfall 43
62	0930103	KY0021466 - Outfall 42
63	0960064	KY0021466 - Outfall 44
64	0980073	KY0021466 - Outfall 46
65	0980080	KY0021466 - Outfall 47
66	1420146	KY0021466 - Outfall 54
67	1470089	KY0021466 - Outfall 62
68	1480185	To Be Permitted
69	1490172	KY0021466 - Outfall 64
70	1710124	KY0021466 - Outfall 72
71	0530110	To Be Permitted
72	0330100	KY0021466 - Outfall 12
73	0340050	KY0021466 - Outfall 14
74	0340051	KY0021466 - Outfall 13
75	0600095	To Be Permitted
76	0910066	To Be Permitted
77	0910067	To Be Permitted
78	1320093	To Be Permitted
79	0010001	To Be Permitted
80	1730259	KY0021466 - Outfall 75
81	0200069	KY0021466 - Outfall 11
82	0630054	To Be Permitted
83	0660085	To Be Permitted
84	1310100	To Be Permitted
85	1310106	To Be Permitted
86	1380054	To Be Permitted
87	1380083	To Be Permitted
88	1440204	KY0021466 - Outfall 59
89	1440207	To Be Permitted
90	0030031	KY0021466 - Outfall 10
91	0650100	KY0021466 - Outfall 25
92	0010047	To Be Permitted
93	0650008	To Be Permitted
94	1510098	To Be Permitted
95	0690008	To Be Permitted
96	1510133	To Be Permitted

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APPENDIX E:

Consent Decree Schedule 2007-2012

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Consent Decree Schedule-2007 thru 2012

ID	Task Name	Duration	Start	Finish	CD Paragraph	Responsible Party	2007			2008			2009			2010			2011			2012			2013							
							Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan						
1	Consent Decree	2084.38 days	Wed 4/18/07	Mon 12/31/12			▶																									
3	NMC PROGRAM REQUIREMENTS	1887.38 days	Wed 4/18/07	Sun 6/17/12			▶																									
4	NMC 1 -- Operation and Maintenance	131 days	Wed 4/18/07	Mon 8/27/07			▶																									
5	O&M Criteria and Weighting Workshop	35 days	Wed 4/18/07	Wed 5/23/07		Novak/Vatter	100%	5/23																								
6	Complete Draft O&M Scoping for entire system	65 days	Wed 4/18/07	Fri 6/22/07		Novak/Vatter	100%	6/22																								
7	Draft Prioritized O&M Program	114 days	Wed 4/18/07	Fri 8/10/07		Novak/Vatter	100%	8/10																								
8	Revised Program Presented to District	17 days	Fri 8/10/07	Mon 8/27/07			100%	8/27																								
9	NMC 2 -- Maximization of Storage	288.38 days	Wed 4/18/07	Thu 1/31/08			▶																									
10	Draft Plan	135 days	Wed 4/18/07	Fri 8/31/07		Novak/Vatter	100%	8/31																								
11	Final Plan	288 days	Wed 4/18/07	Thu 1/31/08		Novak/Vatter	90%	1/31																								
12	NMC 3 -- Pretreatment	177 days	Wed 4/18/07	Fri 10/12/07			▶																									
13	Draft Plan	145 days	Wed 4/18/07	Mon 9/10/07		Novak/Vatter	100%	9/10																								
14	Recommendations Presented at Meeting	0 days	Mon 9/10/07	Mon 9/10/07				9/10																								
15	Final Plan	177 days	Wed 4/18/07	Fri 10/12/07		Novak/Vatter	100%	10/12																								
16	NMC 4 -- Maximize Collection and Treatment	233 days	Wed 4/18/07	Fri 12/7/07			▶																									
17	Interceptor Inspection	153 days	Wed 4/18/07	Tue 9/18/07			100%	9/18																								
18	Dry Creek Analysis	165 days	Wed 4/18/07	Sun 9/30/07			100%	9/30																								
19	Draft Plan	150 days	Wed 4/18/07	Sat 9/15/07		Novak/Vatter	100%	9/15																								
20	Final Plan	233 days	Wed 4/18/07	Fri 12/7/07		Novak/Vatter	100%	12/7																								
21	NMC 5 -- Prevent Dry Weather Overflows	233 days	Wed 4/18/07	Fri 12/7/07			▶																									
22	Develop regulator solutions	65 days	Wed 4/18/07	Fri 6/22/07		Novak/Vatter	100%	6/22																								
23	Dry Weather Overflow Assessment and Recommendations	121 days	Wed 4/18/07	Fri 8/17/07			100%	8/17																								
24	Draft River Water Intrusion Feasibility Plan	201 days	Wed 4/18/07	Mon 11/5/07		Novak/Vatter	100%	11/5																								
25	Final River Water Intrusion Feasibility Plan	233 days	Wed 4/18/07	Fri 12/7/07		Novak/Vatter	100%	12/7																								
26	NMC 6 -- Solids and Floatable Control	621 days	Wed 4/18/07	Mon 12/29/08			▶																									
27	Draft plan with typical sketches	92 days	Wed 4/18/07	Thu 7/19/07		Novak/Vatter	100%	7/19																								
28	Identify locations for pilot floatables control	92 days	Wed 4/18/07	Thu 7/19/07		Novak/Vatter	100%	7/19																								
29	Complete Installation Details (Awaiting Modeling to Confirm Sizing)	160 days	Wed 4/18/07	Tue 9/25/07			100%	9/25																								
30	Complete Fabrication & Installation	50 days	Wed 9/26/07	Thu 11/15/07			100%	11/15																								
31	Complete Pilot Field Study (Dependent on rain events captured)	272 days	Wed 4/18/07	Tue 1/15/08			50%	1/15																								
32	Final prioritized plan	348 days	Wed 1/16/08	Mon 12/29/08		Novak/Vatter	15%	12/29																								
33	Submit NMC Documentation of Compliance	366 days	Wed 4/18/07	Fri 4/18/08	35	Novak/Vatter	90%	4/18																								
34	Draft report to SD1	233 days	Wed 4/18/07	Fri 12/7/07			100%	12/7																								
35	Submit NMC Documentation of Full Compliance	731 days	Wed 4/18/07	Sat 4/18/09	35	Novak/Vatter	0%	4/18																								
36	Submit First NMC Annual Report	60 days	Sat 4/18/09	Wed 6/17/09	35	Novak/Vatter	0%	6/17																								
37	Submit NMC Annual Report	1095 days	Thu 6/18/09	Sun 6/17/12	35	Novak/Vatter	▶																									
41																																
42																																
43	CMOM PROGRAM REQUIREMENTS	2010.38 days	Wed 4/18/07	Thu 10/18/12			▶																									
44	Submit CMOM Program Self-Assessment	183 days	Wed 4/18/07	Thu 10/18/07	36	Mulshine	100%	10/18																								
45	Actual Submittal Date	0 days	Wed 10/17/07	Wed 10/17/07		Mulshine		10/17																								
46	Regroup Meeting	0 days	Thu 7/12/07	Thu 7/12/07		Kendall/Mulshine		7/12																								
47	CMOM Workshops	32 days	Mon 7/23/07	Fri 8/24/07		Kendall/Mulshine	100%	8/24																								
48	Report submitted for internal review	28 days	Fri 8/24/07	Fri 9/21/07		Kendall/Mulshine	100%	9/21																								
49	Report submitted to key people for final review	0 days	Fri 9/28/07	Fri 9/28/07		Kendall/Mulshine		9/28																								
50	Submit Grease Control Program (FOG)	183 days	Wed 4/18/07	Thu 10/18/07	36(a)	Clark/Martin	100%	10/18																								
51	Actual Submittal Date	0 days	Tue 9/18/07	Tue 9/18/07	36(a)	Casey/Waters		9/18																								
52	Submit Pump Station Backup Power Plan	366 days	Wed 4/18/07	Fri 4/18/08	36(b)	Novak/Vatter	100%	4/18																								
53	Actual Submittal Date	0 days	Fri 12/14/07	Fri 12/14/07	36(b)	Novak/Vatter		12/14																								
54	Submit Sewer Overflow Response Plan (SORP)	183 days	Wed 4/18/07	Thu 10/18/07	36(c)	Kendall	100%	10/18																								
55	Actual Submittal Date	0 days	Tue 10/9/07	Tue 10/9/07	36(c)	Casey/Waters		10/9																								
56	Complete SORP Annual Review	1826 days	Fri 10/19/07	Thu 10/18/12	36(c)	Kendall	▶																									
62																																
63																																
64	INITIAL WATERSHED PROJECT LIST	2084.38 days	Wed 4/18/07	Mon 12/31/12			▶																									
65	Complete Initial Watershed Projects (51 Total) (Actual Deadline 2014)	2084 days	Wed 4/18/07	Mon 12/31/12	37	Novak	71%	12/31																								
66	34 Projects Complete, 9 Under Construction (8 Associated with WRWWTP)	0 days	Tue 6/26/07	Tue 6/26/07	37	Novak		6/26																								
67	Submit First Initial Watershed Projects Annual Report	366 days	Wed 4/18/07	Fri 4/18/08	37	Mulshine	0%	4/18																								

Project: CD Project First Five Years-Au Date: Mon 1/28/08
 Task: Milestone:
 Progress: Summary:
 Rolled Up Task: Rolled Up Milestone:
 Rolled Up Progress: Split:
 External Tasks: Project Summary:
 Group By Summary: Deadline:

Consent Decree Schedule-2007 thru 2012

ID	Task Name	Duration	Start	Finish	CD Paragraph	Responsible Party	2007		2008			2009			2010			2011			2012			2013
							Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May
68	Submit Initial Watershed Projects Annual Report	1521.38 days	Sat 4/19/08	Mon 6/18/12	37	Mulshine																		
73																								
74																								
75	PUMP STATION PLAN	1748.38 days	Wed 4/18/07	Mon 1/30/12																				
76	Submit Pump Station Plan (PSP)	183 days	Wed 4/18/07	Thu 10/18/07	38	Novak/Vatter																		
77	Actual Submittal Date	0 days	Tue 9/18/07	Tue 9/18/07		Novak/Vatter																		
78	Submit First Pump Station Plan Annual Report	409 days	Thu 10/18/07	Sun 11/30/08	38	Mulshine																		
79	Submit Pump Station Plan Annual Report	1155 days	Mon 12/1/08	Mon 1/30/12	38	Mulshine																		
83	Complete Remedial Measures at 8 Pump Stations	1353 days	Wed 4/18/07	Fri 12/31/10	38	Novak/Vatter																		
84																								
85																								
86	WATERSHED PLANNING (1st of 4 Plans)	804 days	Wed 4/18/07	Tue 6/30/09																				
87	Develop Watershed Framework	226 days	Wed 4/18/07	Fri 11/30/07	39(a)	Gibson/Clements																		
88	Complete Internal Review of Draft Framework	30 days	Sat 12/1/07	Mon 12/31/07	39(a)	Gibson/Clements																		
89	Obtain Public Input on Framework for Watershed Plans	58 days	Tue 1/1/08	Thu 2/28/08	40	Casey																		
90	Submit Framework for Watershed Plans	0 days	Fri 4/18/08	Fri 4/18/08	39(a)	Gibson/Clements																		
91	First Round of Watershed Plans	804 days	Wed 4/18/07	Tue 6/30/09	39(b)	Gibson/Clements																		
92	Draft 16 Watershed Characterization Reports	226 days	Wed 4/18/07	Fri 11/30/07		Clements																		
93	Complete Internal Review for 16 Watershed Characterization Reports	274 days	Sat 12/1/07	Sun 8/31/08		Clements																		
94	Develop Alternatives Analysis Approach	212 days	Sat 9/1/07	Mon 3/31/08		Vatter/Turner																		
95	Conduct Banklick Pilot Project	107 days	Tue 11/13/07	Thu 2/28/08		Vatter/Turner																		
96	Develop Preliminary Water Quality Models	408 days	Wed 4/18/07	Fri 5/30/08		Scott																		
97	Develop Infrastructure Models	439 days	Wed 4/18/07	Mon 6/30/08		Vatter																		
98	Confirm Water Quality Models	59 days	Tue 7/1/08	Fri 8/29/08		Scott																		
99	Conduct Alternatives Analysis	274 days	Tue 4/1/08	Wed 12/31/08		Vatter/Turner																		
100	Conduct Financial Affordability Analysis	274 days	Tue 4/1/08	Wed 12/31/08	39(a)	Turner/Schmitt																		
101	Conduct Water Quality Assessments (Stream Monitoring)	623 days	Wed 4/18/07	Wed 12/31/08		Scott/Wooten																		
102	Develop Watershed Health Index	426 days	Thu 11/1/07	Wed 12/31/08		Wooten																		
103	Complete Draft Watershed Plans	88 days	Fri 1/2/09	Tue 3/31/09	39(b)	Gibson/Clements																		
104	Obtain Public Input on First Round of Watershed Plans	60 days	Wed 4/1/09	Sun 5/31/09	40	Casey																		
105	Submit First Round of Watershed Plans	0 days	Tue 6/30/09	Tue 6/30/09	39(b)	Gibson/Clements																		
106	Watershed Summit -- Meets Public Input Requirement for Watershed Plan Process	0 days	Thu 8/30/07	Thu 8/30/07	40	Casey																		
107																								
108																								
109	REPORTING	2084.38 days	Wed 4/18/07	Mon 12/31/12																				
110	Submit Quarterly Report 1	287 days	Wed 4/18/07	Wed 1/30/08		Mulshine																		
111	Quarterly Reports	1734 days	Thu 1/31/08	Tue 10/30/12	42	Mulshine																		
131	Submit CMOM Annual Report 1	257 days	Wed 4/18/07	Mon 12/31/07	43	Mulshine																		
132	Actual Submittal Date	0 days	Fri 12/28/07	Fri 12/28/07		Mulshine																		
133	Annual Report (CMOM)	1826 days	Tue 1/1/08	Mon 12/31/12	43	Mulshine																		
139																								
140																								
141	CIVIL PENALTY	61 days	Wed 4/18/07	Mon 6/18/07																				
142	Pay Civil Penalties to EPPC and US EPA	61 days	Wed 4/18/07	Mon 6/18/07	46	Schmitt																		
143																								
144																								
145	SUPPLEMENTAL PROJECTS	1887 days	Wed 4/18/07	Sun 6/17/12																				
146	Supplemental Env. Projects	1827 days	Wed 4/18/07	Wed 4/18/12	47	Turner																		
147	SEP Completion Reports	60 days	Wed 4/18/12	Sun 6/17/12	48	Mulshine																		
148																								
149																								
150	STATE ENVIRONMENTAL PROJECTS	1887.38 days	Wed 4/18/07	Sun 6/17/12	49	Gibson/Casey																		
151	Conservancies	1827 days	Wed 4/18/07	Wed 4/18/12	49	Clements/Frye																		
152	Licking River Watershed Watch	1827 days	Wed 4/18/07	Wed 4/18/12	49	Scott																		
153	Split Rock	1827 days	Wed 4/18/07	Wed 4/18/12	49	Wooten																		
154	Education Programs	1827 days	Wed 4/18/07	Wed 4/18/12	49	Casey/Eggemeyer																		
155	State Environmental Project Completion Report	60 days	Wed 4/18/12	Sun 6/17/12	50	Mulshine																		
156	Set up 6 Separate Escrow Accounts	183 days	Wed 4/18/07	Thu 10/18/07	Exhibit H	Schmitt																		

Project: CD Project First Five Years-Au
Date: Mon 1/28/08

Task		Milestone		Rolled Up Task		Rolled Up Progress		External Tasks		Group By Summary	
Progress		Summary		Rolled Up Milestone		Split		Project Summary		Deadline	

APPENDIX F:
Initial Watershed Projects

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Initial Watershed Projects

CIP Code	CIP Title	Project Manager	Anticipated Start Date	Anticipated Completion Date	Status	Past Activity on Project from 4/18/07 to 12/31/07	Planned Activity for 1/1/08 to 3/31/08
North Watershed Projects							
C-042-00	Strawberry Pump Station Elimination	Bob Wilson	2005	2006	Complete	Completed prior to 4/18/07.	No further work planned.
C-438-01	Beechwood Outfall Sewer Replacement	Darleen McGuire	2006	2007	Complete	Project consists of approximately 4200 feet gravity sewer ranging in size from 8" - 30". Prior to 4/18/07 approximately 2850" pipe installed, remainder of pipe installation was completed 5/18/07.	No further work planned.
East Watershed Projects							
C-054-00	Eastern Regional - Contract 1--Pond Creek Force Main and Gravity Sewer to Eastern Regional WWTP	Darleen McGuire	2005	2008	Complete	Project consists of approximately 10,000' gravity sewer size ranged from 30" - 42" and approximately 3600' of 16" force main. Pipe installation completed prior to 4/18/07. Sewer in service 9/28/07.	Final punchlist items to be addressed (streambank restoration).
C-056-00	Eastern Regional - Contract 2--Kahn's Gravity Sewer and Gravity Sewer to the Pond Creek PS	Darleen McGuire	2005	2008	Complete	Approximately 8350 feet gravity sewer ranging in size from 8" - 30". Substantial completion on 9/21/06, sewer in service since 9/28/07.	No further work planned.
C-073-00	US 27 at Summit Assessment	Bob Wilson	2005	2008	Complete	Completed prior to 4/18/07.	No further work planned.
C-075-00	Eastern Regional - Contract 3--Riley Force Main and Gravity Sewer to the ERWWTP	Darleen McGuire	2006	2009	Under Construction	Approximately 10,000' gravity sewer size ranging from 8" - 21" and 7290' of 20" force main. Prior to 4/18/07 approximately 4700' of sewer installed. As of 12/31/07 approximately 17000' of sewer installed. 70% gravity sewers in service 9/28/07.	Continued construction.
C-076-00	Eastern Regional - Contract 4--Alex Licking Gravity Sewer & Force Main to Contract 1	Bob Wilson	2006	2009	Under Construction	Approximately 10,000' gravity sewer size ranging from 8" - 18" and 5100' of 16" force main. 12/31/07 approximately 5600' of sewer installed. Scheduled completion date 05/08.	Continued construction.
C-077-01	Eastern Regional - Contract 5--Sunset Force Main and Gravity Sewer	Jim Turner	2006	2009	Under Design	Design plans for Sunset force main, gravity sewer, and pump station under development; approximately 90% complete as of 12/31/07.	Design plans to be completed.
C-078-00	Eastern Regional - Contract 6--Pond Creek Pump Station	Darleen McGuire	2005	2008	Complete	Construction of Pond Creek PS, Demolition of Hillshire Farms PS, Pond Creek WWTP, Southern Campbell Co. WWTP, 70% complete prior to 4/18/07, Substantial completion 9/24/07 Pond Creek PS, in service since 9/28/07. Flow diverted from HFPS, PCWWTP, and SCWWTP 9/28/07.	No further work planned.
C-079-00	Eastern Regional - Contract 7--Riley Road #2 Pump Station	Brandon Vatter	2006	2009	Under Construction	Construction began July 2007.	Continued construction.
C-080-00	Eastern Regional - Contract 8--Alex-Licking and Sunset Pump Stations	Jim Turner	2006	2009	Under Construction	Alex Licking PS: Notice to proceed was issued to contractor on April 23, 2007; construction began in May and continued throughout this period; approximately 50% of construction complete as of 12/31/07. Sunset PS: see project C-077-01.	Continued construction.
C-081-00	Parkside Pump Station Relocation	Darleen McGuire	2005	2008	Complete	Completed prior to 4/18/07.	No further work planned.
C-426-00 & 01	Eastern Regional Wastewater Treatment Plant	Chris Novak	2004	2008	Under Construction	The Influent PS, Oxidation Ditch, Final Clarifiers and UV Disinfection were put in service on September 24, 2007 when the plant started receiving flows from the collection system.	Continued construction on the Sludge Processing Facilities and EQ storage with a target operational date of January 31, 2008. All work should be complete by May 31, 2008.
C-414-17	Highland Heights Pump Station Study	Brandon Vatter	2005	2006	Complete	Study complete in December 2006.	No further work planned.
C-620-01	Wilson/Waterworks Road Relief Sewer Study	Jim Turner	2005	2008	Complete	Study completed prior to 4/18/07.	No further work planned.
C-607-01	Pinehill/Skyview Terrace Sewer	Bob Wilson	2005	2006	Complete	Completed prior to 4/18/07.	No further work planned.
West Watershed Projects							
C-001-00	Western Regional Conveyance System to Western Regional WWTP	Brandon Vatter	2008	2013	Under Design	Project under design.	Complete design and get contract documents ready for advertisement for bidding. Complete approval process for the Regional Facilities Plan Update. Project is scheduled to be bid in April 2008.
C-002-00	Western Regional - Sunnybrook Sewer	Brandon Vatter	2008	2013	Under Design	Project under design.	Continued design.

Initial Watershed Projects

CIP Code	CIP Title	Project Manager	Anticipated Start Date	Anticipated Completion Date	Status	Past Activity on Project from 4/18/07 to 12/31/07	Planned Activity for 1/1/08 to 3/31/08
C-003-00	Western Regional - Frogtown Interceptor Sewer (from Sunnybrook Dr. to Frogtown Rd.)	Brandon Vatter	2010	2014	Under Design	Project under design.	Continued design.
C-004-00	Western Regional - South Fork Gunpowder Interceptor Sewer and Rosetta Sewer	Brandon Vatter	2008	2013	Under Design	Project under design.	Continued design.
C-005-00	Western Regional - Narrows Road Diversion Pump Station	Brandon Vatter	2008	2013	Under Design	Project under design.	Continued design.
C-030-00	Western Regional - KDOT - Turkeyfoot Road Force Main	Brandon Vatter	2003	2006	Complete	Completed prior to 4/18/07.	No further work planned.
C-037-00	Western Regional - Union Sewer (North and South)	Darleen McGuire	2007	2013	Complete	Combined projects included approximately 18,450 gravity sewer size ranged from 36" - 8" pipe. Approximately 11,800' of pipe installed prior to 4/18/07. Remainder of pipe installed 12/31/07. Substantial completion S. Union 10/5/07.	No further work planned.
C-038-00	Western Regional - Gunpowder Interceptor Sewer	Bob Wilson	2008	2013	Under Construction	Approximately 13,000' 72" gravity sewer. Notice to proceed issued September 9, 2007 to S.J. Lewis Contractors. Contractor mobilized site November 2007.	Continued construction.
C-039-00	Western Regional - Richwood Sewer and Force Main	Brandon Vatter	2008	2013	Under Design	Under design.	Continued design.
C-063-00	Western Regional - Turkeyfoot Industrial Road Force Main	Bob Wilson	2007	2013	Under Construction	This project was split into 3 phases to coincide with KDOT road widening projects. The total length of force main is approx. 15,000 feet. The first 5,000 feet in phase 1 is complete (See C-030-00 above). The second phase of approx. 200 feet is under construction and scheduled to be complete in the spring of 2008. Phase 3 is scheduled to be bid with the KDOT Industrial Road widening project with completion by December 31, 2012 in coordination with the Western Regional Water Reclamation Facility substantial completion.	Continue construction on Phase 2.
C-414-02	American Sign Pump Station Rehabilitation	Jim Turner	2006	2008	Under Construction	Construction began in May and continued throughout this period. Approximately 90% of construction complete as of 12/31/07.	Pump station to be put into service in January; final punchlist to be developed and final construction items to be completed by end of period.
C-424-00	Western Regional Wastewater Treatment Plant	Chris Novak	2008	2013	Under Design	Design continued on the new Western Regional WWTP from April 18, 2007 with plans reaching 90% complete as of December 31, 2007.	Continued design; construction plans should be 100% complete by March 31, 2008.
C-068-00	Allen Fork Collection System - Phase I Improvements	Brandon Vatter	2006	2009	Complete	Complete. Burlington PS and new influent sewers in-service in January 2007.	No further work planned.
C-031-00	Duncan Drive Assessment Project	Bob Wilson	2005	2007	Complete	Completed prior to 4/18/07.	No further work planned.
Central Watershed Projects							
C-014-00	Banklick Pump Station Screening Facility	Bob Wilson	2004	2006	Complete	Completed prior to 4/18/07.	No further work planned.
C-036-01	Stevenson Road Relief Sewer Project Phase II	Bob Wilson	2004	2006	Complete	Completed prior to 4/18/07.	No further work planned.
C-040-05	Latonia Combined Sewer Separation	Darleen McGuire	2006	2009	Complete	Approximately 4600 feet gravity storm sewer separation from combined sewer, size ranged from 60" - 12". Prior to 4/18/07 approximately 1600 feet installed. Substantial completion 10/18/07.	No further work planned.
C-046-00	Licking River Sewer Crossing Study	Brandon Vatter	2005	2007	Complete	Study complete in December 2007.	No further work planned.
C-072-00	McMillan Pump Station Removal	Darleen McGuire	2005	2006	Complete	Project completed prior to 4/18/07.	No further work planned.
C-414-16	Meyer Road Pump Station Rehabilitation	Jim Turner	2006	2008	Complete	Construction began in May and continued throughout this period; pump station put into service on 11/6/07.	Final punchlist to be developed and final construction items to be completed.
C-414-43	Macke Pump Station Rehabilitation	Jim Turner	2006	2008	Complete	Construction began in May and continued throughout this period; pump station put into service on 11/9/07.	Final punchlist to be developed and final construction items to be completed.

Initial Watershed Projects

CIP Code	CIP Title	Project Manager	Anticipated Start Date	Anticipated Completion Date	Status	Past Activity on Project from 4/18/07 to 12/31/07	Planned Activity for 1/1/08 to 3/31/08
C-414-45	Richwood Pump Station Improvements	Bob Wilson	2005	2006	Complete	Completed prior to 4/18/07.	No further work planned.
C-480-02	Patton Street Sewer Study	Brandon Vatter	2005	2006	Complete	Study complete in June 2006.	No further work planned.
C-615-01	South Hills Outfall	Brandon Vatter	2006	2008	Complete	Approximately 3800 feet gravity sewer, size ranged from 8" - 30 " Prior to 4/18/07 approximately 3300' of pipe installed. Pipe installation completed 5/2/07.	No further work planned.
North & East Watershed Projects							
C-475-00	Grit Chamber Projects	Bob Wilson	2006	2010	Under Construction	Newport and Dayton Grit Pits Substantial completion 10/07. Covington site notice to proceed was issued September 07 and construction as of 12/31/07 is 41% complete.	Continued construction.
North & Central Watershed Projects							
S-577-01	Fort Wright Illicit Discharge Removal	Bob Wilson	2004	2007	Complete	Completed prior to 4/18/07.	No further work planned.
C-040-03	Fort Wright Sanitary Sewer Rehabilitation Phase 1	Bob Wilson	2004	2007	Complete	Work completed prior to 4/18/07.	No further work planned.
C-458-00	Fort Wright Outfall Sewer - Phase II	Bob Wilson	2003	2006	Complete	Work completed prior to 4/18/07.	No further work planned.
North, East & Central Watershed Projects							
C-044-00	Dry Creek Treatment Plant - Grit Removal Modifications	Chris Novak	2004	2006	Complete	Completed prior to 4/18/07.	No further work planned.
C-024-00	Large Diameter Sewer Assessment Program - Phase III	Brandon Vatter	2005	2007	Complete	Complete.	No further work planned.
C-040-06	Brookwood Subdivision SSES Study	Brandon Vatter	2005	2006	Complete	Complete.	No further work planned.
C-040-08	Southern Kenton Drainage Study	Brandon Vatter	2005	2007	Complete	Complete.	No further work planned.
C-090-00	Wilson Road Sewer Assessment Project	Bob Wilson	2005	2006	Complete	Completed prior to 4/18/07.	No further work planned.
C-484-00	Apple Drive Sewer Outfall	Bob Wilson	2005	2006	Complete	Completed prior to 4/18/07.	No further work planned.
North, East, West & Central Watershed Projects							
C-480-01	Bluegrass Swim Club Sewer Separation	Bob Wilson	2005	2008	Complete	Complete. Project to separate storm and sanitary to eliminate overflow. All new storm and sanitary sewers in-service in August 2007.	No further work planned.

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APPENDIX G:

Watershed Community Council Members

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Watershed Community Council Members

Number	First Name	Last Name	Suffix	Organization	Title	Watershed Basin
1	Daniel	Allen		Kenton County Extension Service	Agriculture & Natural Resource Agent	All
2	Jay	Bayer				North
3	Mary Pat	Behler		Banklick Watershed Council	Member	Central
4	Stuart	Bowns				East
5	Mark	Brueggemann		CDS Associates, Inc.	Principal	West
6	Barry	Burke	P.E. PLS	KSPE, Northern Kentucky Chapter	Member-Civil Engineering Manager	All
7	James	Bushong		Independence City Council	Councilman	Central
8	Sherry	Carran		Banklick Watershed Council/City of Covington	Chair/City Commissioner	Central
9	Tom	Comte		Boone County Conservation District	Supervisor	North, West, Central
10	Jerry	Deaton		Kentucky League of Cities	Director of Governmental Affairs	All
11	Mary Kathryn	Dickerson		Campbell County Conservation District	District Coordinator	Central, East
12	Edward	Dietrich		Northern Kentucky Area Planning Commission	Associate Planner	All
13	Dan	Dressman		HBA of Northern Kentucky	Executive Vice President	All
14	Terry	Fasig		Fasig Company, Inc.	President-Owner	West
15	Scott	Fennell	P.E. M.En	Northern Kentucky Center for Applied Ecology	Senior Engineer & Project Manager	Central
16	David	Geohegan		Boone County Planning Commission	Director of Planning Services	North, West, Central
17	Doug	Ginn				North
18	Paul	Grunenwald				East
19	Tim	Guilfoile		Sierra Club	Regional Conservation Organizer	Central
20	Lajuanda	Haight-Maybriar	Ex Oficia Member	Licking River Basin (Coordinator)/KDOW		All
21	John	Hart				West
22	Ken	Heil				North
23	Marc	Hult		Kenton County Conservation District	Chairman, District Board of Supervisors	All
24	James C.	Jenkins	P.E.			North
25	Deborah	Kittner				East
26	Peter	Klear		Campbell County Fiscal Court	Director of Planning & Zoning	Central, East
27	Larry	Klein		City of Fort Wright	Chief Administrative Officer	Central
28	James	Kreissl				North
29	Bill	Kreutzjans		HBA	LDC President	Central
30	Ross	Kreutzjans				East
31	Bernie	Kunkel				West
32	Jennifer	Lantz		Northern Kentucky University's Environmentally Concerned Organization of Students	President	Central
33	John	Lippitt		LC Facili Core	President	North
34	Chris	Lorentz		Thomas More College	Professor of Biology & Director of the Center for Ohio River Research & Education	North
35	Bob	Maurer		Boone County Farm Bureau	President	North, West, Central
36	Yvonne	Meichtry		Licking River Watershed Watch	Chair	North, Central, East
37	Deborah	Miller		Sierra Club of Northern Kentucky	Chairperson	All
38	Michael	Moreland				West
39	David	Peck		Campbell Conservancy Inc.	Chair	Central, East
40	Mike	Phillips		Vision 2015	Park Initiatives Coordinator	All
41	John	Prescott				Central
42	Sue	Puffenberger				Central
43	John	Roth	Jr.			Central
44	Sharmili	Sampath		Northern Kentucky Area Planning Commission	Principal Planner	All
45	Janet	Scanlon		Kenton Conservancy	Secretary	All
46	Robert	Schroder		Arlinghaus Builders LLC		West
47	D.J.	Scully		U.K., Campbell County Cooperative Extension Service	County Extension Agent for Natural Resources and Environmental Management	Central, East
48	Donald	Stegman		Cardinal Engineering Corporation	Vice President	Central
49	Laura	Strevels		Northern Kentucky Health Department	Environmental Program Manager	All
50	Gabrielle	Summe				Central
51	Gary	Toebebe		The Good Earth, Inc. Landscape, Design/Build	President	Central
52	John	Toeppen		Toeppen Builders	President	North
53	Rick	Weinel				East
54	Gil	Whitacre		HBA	Land Development Council	North
55	Jamie	Wisnall		Thomas More College	Student	East
56	Jay	Withrow				East