

Consent Decree Quarterly Report No. 04 (July 1, 2008 through September 30, 2008)

Sanitation District No. 1
October 30, 2008



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CERTIFICATION

Addendum-01 to Consent Decree Quarterly Report No. 04
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
Jeffery A. Eger
General Manager

November 20, 2008
Date

COMMONWEALTH OF KENTUCKY)ss.
COUNTY OF Kenton

The foregoing instrument was acknowledged before me this 20 day of November, 2008 by Jeffery A. Eger, General Manager of Sanitation District No. 1.

Linda Hamberg
NOTARY PUBLIC
State & Large County, Kentucky

My commission expires: May 9, 2010

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CONSENT DECREE QUARTERLY REPORT NO. 04

October 30, 2008

As Amended on November 20, 2008



Sanitation District No. 1

1045 Eaton Drive
Ft. Wright, KY 41017

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LIST OF ACRONYMS AND ABBREVIATIONS

Cabinet	Kentucky Energy and Environment Cabinet
CSO	Combined Sewer Overflow
EPA	U.S. Environmental Protection Agency
gbaMS	GBA Master Series (information tracking system)
SD1	Sanitation District No. 1
SSO	Sanitary Sewer Overflow

SECTION 1. INTRODUCTION

1.1 Purpose

This Quarterly Report is submitted to fulfill the requirements of Sanitation District No. 1's (SD1) Consent Decree as entered on April 18, 2007. This Consent Decree is a legal agreement with the U.S. Environmental Protection Agency (EPA) and the Kentucky Energy and Environment Cabinet (Cabinet). The purpose of the Consent Decree is to address sanitary sewer overflows (SSOs) in SD1's sanitary sewer system and combined sewer overflows (CSOs) in the combined sewer system in an effort to improve water quality throughout SD1'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.

1.2 Report Period

Information contained within this report describes SD1's compliance with Consent Decree Case No. 2:05-cv-00199-WOB for the period of July 1, 2008 through September 30, 2008. This report also contains an outlook for the upcoming calendar quarter period of October 1, 2008 through December 31, 2008.

1.3 Consent Decree Compliance Schedule

A comprehensive Gantt chart outlining SD1's project schedule for meeting the requirements of the Consent Decree can be found in Appendix A. This project schedule includes tasks, responsible parties, and deadlines for the first five years of the Consent Decree (2007 through 2012). Additionally, a more detailed listing of the Initial Watershed Projects that were not complete prior to July 1, 2008, including current status, project updates for the current reporting period, and planned activity for the subsequent quarter can be found in Appendix B.

SECTION 2. OVERFLOW DATA

This section of the Quarterly Report presents SD1's estimates of overflow activity in the collection systems. While SD1 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 taking place as part of SD1's wet-weather management activities, and future reports will continue to incorporate expanded overflow metrics based on more quantitative measures as they become available.

Over the last quarter, we have made further progress with developing standardized reports in SD1's computerized maintenance management system, GBA Master Series (gbaMS), to help support the specific reporting needs for these quarterly reports and to better track system performance. We are continuing to fine-tune and improve our tracking and reporting capabilities to increase efficiency in our work. SD1 has been using gbaMS since 1999 and has added several modules and applications in response to evolving needs over the years. As there are now new uses for this tool after entering into the Consent Decree, SD1 is undergoing adjustments to both the data input and output processes for gbaMS to generate more precise data for use in these quarterly reports. Because the refinement of gbaMS is ongoing to meet these evolving needs, several numbers generated from this software program will be reported as "approximate." As SD1 moves forward with structuring its reporting procedures, quality assurance and quality control issues regarding data input and output from gbaMS will be addressed.

Overflow Categories

For reporting and system performance measurement purposes, SD1 has categorized sewer overflows throughout the service area into five distinct categories:

- *Recurring SSOs* – Recurring overflows from SD1'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 SD1'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 SD1'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 SD1's responsibility or the building owner's responsibility.

Precipitation Data

Rainfall statistics are an important component of overflow reporting, as rainfall conditions represent an uncontrolled variable impacting SD1's CSO and SSO activity.

Quarterly CSO and SSO activations and volumes will constantly vary over time, with or without system improvements, due to natural variations in rainfall patterns. Over time, SD1 expects system improvements to show a clear trend in reduced overflow activity. However, reviewing overflow reports for any individual quarter relative to the previous quarter also requires careful review of the rainfall associated with each quarter, in order to understand the relative impact of rainfall patterns. For this reason, storm event summaries are included in all overflow reporting submittals. The data in Table 2.1 is from the Cincinnati-Northern Kentucky International Airport rain gauge maintained by the National Weather Service (CVG).

Table 2.1 Summary of Storm Events
(July 1, 2008 – September 30, 2008)

Month	Approximate # of Storm Events	Rainfall (in)
July 2008	11	3.39
August 2008	6	1.78
September 2008	5	1.22
Total	22	6.39

Significant Weather Event

The Greater Cincinnati Tri-State area experienced a historic and unprecedented windstorm on Sunday, September 14, 2008, with wind gusts in excess of 70 mph reported. These severe winds persisted for several hours, which resulted in more extensive damage than typical severe thunderstorm winds. Numerous roads and highways were blocked or closed due to debris and fallen power lines. This storm was responsible for the largest power outage caused by a natural disaster in the history of the Midwest, with an estimated 3.7 million customers losing power. This improbable weather event largely contributed to the overflows experienced during this reporting period.

Forty-three of SD1's pump stations lost power as a result of this storm, with 26 of these stations experiencing a dry weather overflow. The 26 pump stations discharged a total of 29 times, with an estimated overflow volume of 612,000 gallons. SD1 crews set-up portable generators and hauled an estimated 286,000 gallons of discharge from wet wells in an effort to minimize the impact of the overflows. The remaining stations were either powered by backup generators or had power restored prior to the threat of a discharge. Approximately 3,000 gallons of fuel was utilized to power backup and portable generators during this event.

The remainder of this section reports overflows that occurred throughout SD1's service area during the period of July 1, 2008 through September 30, 2008, including those associated with this wind storm.

2.1 Recurring SSOs

SD1 uses 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 since 2005 and will be expanded as warranted for ongoing reporting. SD1's wet weather crew continues to perform routine inspections before and after rain events at recurring SSO locations. This is part of SD1's ongoing effort to characterize overflows throughout the collection systems and ensure they are categorized accurately. Proper characterization of overflows will help identify the most appropriate and effective solutions to be included in SD1's Watershed Plans.
- 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 included in this Quarterly Report.
- Estimates developed from SD1's system-wide collection system models. SD1 has recently completed a year-long flow monitoring program, consisting of more than 245 flow meters and 45 rain gauges installed throughout the combined and separate sewer systems, that was utilized to update the calibration and validation of the system-wide hydraulic models. This calibration was undertaken to provide a model network that could confidently be used as a planning level tool in preparing the Watershed Plans for June 2009. In addition to the use of the models for planning future capital improvements, the models can also be used to provide information about the current performance of SD1's system. Given the system-wide extent of the model, SD1 has elected to use the models to provide estimates of the overflow locations within the system for quarterly reporting purposes. This approach is consistent with SD1's commitment to provide the best available information on overflow activity within these reports.

For this submittal, SD1 has collected rainfall data from a series of eight rain gauges located across the system and simulated the rainfall which occurred between July 1, 2008 and October 1, 2008 within the hydraulic models. The results of the model simulations have been summarized and included as an estimate of the frequency and total volume of the overflow locations within SD1's system for this period. For the modeled locations, these results are not a summary of observed or confirmed activations but are an estimate of the overflow statistics based on the calibrated model. The presented statistics should be viewed with the knowledge that the data provided is only estimated and could differ from actual field conditions due not only to the inherent potential error in any model but also specific local conditions (maintenance issues, localized rainfall, etc.). However, we do not anticipate these estimates to be significantly different than field conditions. As noted in earlier quarterly reports, SD1 is

actively realigning and optimizing their field activities to support the framework of Consent Decree requirements, and this process includes constantly working to verify the model results against actual field conditions through monitoring and observation. Over time, these field verifications will continue to improve the model as appropriate to better reflect any discrepancies found with observed conditions. It is an ongoing and continual process to refine the modeling tools to provide the most accurate information possible about overflow locations, including future model updates to incorporate system improvements.

Modeled activation and volume statistics for SD1's 99 recurring SSO locations for the current reporting period can be found in Appendix C. It should be noted that for the two largest SSO locations, the data provided is based on flow meters that were present during the monitoring period; the remainder of the SSO locations are estimated based on the model results.

Updates to the locations of SD1's recurring SSOs will be reported on an annual basis to include any revisions based upon the field inspection and hydraulic modeling programs. Appendix D of SD1's April 2008 Quarterly Report, titled "Recurring SSO Revisions – Transaction Database," included revisions to the recurring SSO list. Therefore, any revisions to the SSO list documented after April 2008 will be published in the April 2009 Quarterly Report.

In addition to the 99 recurring SSOs, there are also 14 pump stations identified in the Consent Decree that have historically documented recurring wet weather capacity issues. SD1 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 2.2 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 14 times during the current reporting period, with an estimated overflow volume of 116,000 gallons, of which 72% can be attributed to the Lakeview Pump Station. As previously mentioned, SD1 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 2.2 Discharges from Consent Decree Pump Stations
(July 1, 2008 – September 30, 2008)**

Name of Pump Station	Number of Discharge Occurrences	Total Estimated Volume (gallons)
Alex-Licking	0	0
Allen-Fork	1	5,000
Crestview ¹	1	20,000
Harrison Harbor	0	0
Highland Acres	0	0
Kentucky Aire	0	0
Lakeview	1	83,000
Reilly Road ²	3	2,000
Ripple Creek ³	4	6,000
South Hampton	0	0
South Park	0	0
Sunset ⁴	4	62,000
TaylorSPORT	0	0
Union	0	0
TOTAL	14	178,000

¹ The bypass at the Crestview Pump Station was caused by a power failure during the high wind storm on 9/14/08.

² One of the bypasses at the Reily Road Pump Station was caused by a power failure during dry weather.

³ Three of the bypasses at the Ripple Creek Pump Station were caused by a power failure during dry weather, of which two occurred during the high wind storm on 9/14/08.

⁴ All of the bypasses at the Sunset Pump Station were caused by a power failure during the high wind storm on 9/14/08.

In addition to tracking bypasses at the pump stations listed in the Consent Decree, SD1 continuously monitors all pump stations throughout the service area for wet weather capacity issues. During the current reporting period, the Highland Heights Pump Station was the only pump station not listed in the Consent Decree that discharged during wet weather due to lack of capacity, with 4 wet-weather related discharge occurrences recorded and a total estimated volume of 35,000 gallons. As SD1 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.

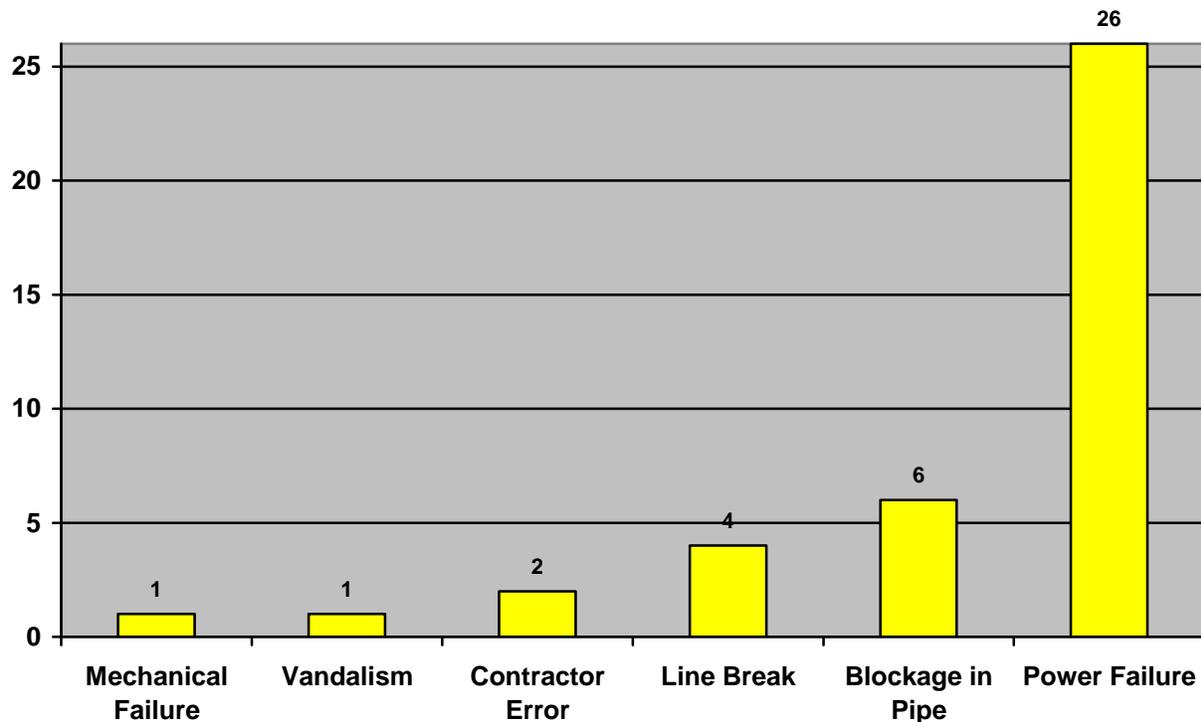
2.2 Non-recurring SSOs

During the current reporting period, there were a total of 40 non-recurring SSOs throughout SD1's service area with a total estimated overflow volume of 1,232,000 gallons. As previously mentioned, this category of overflows includes discharges from SD1'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 industry standard volume estimation techniques and calculations are used for spills or for any witnessed overflow from a manhole.

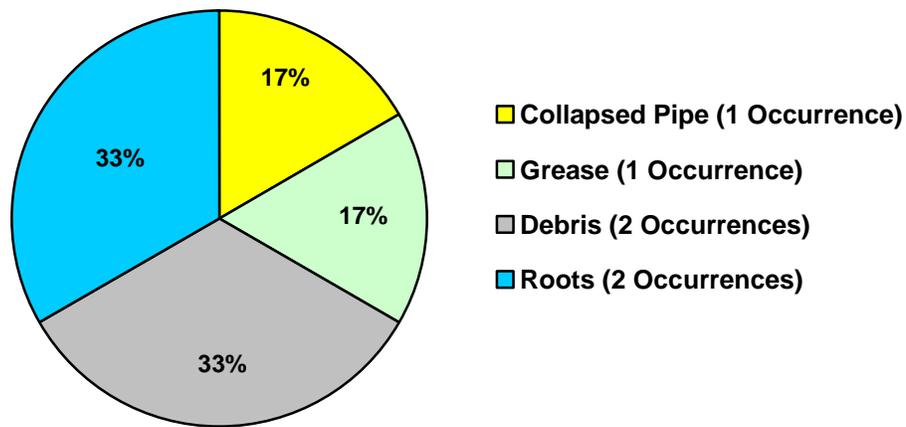
The 40 overflows reported in this category can be broken down by the primary causes demonstrated in Figure 2.1. A large majority of the overflows shown in this figure as being caused by "power failure" are due to the high wind storm on 9/14/08.

Figure 2.1 Causes for Non-recurring SSOs
(July 1, 2008 – September 30, 2008)



The 6 non-recurring SSOs caused by blockages can further be broken down into four secondary causes, as demonstrated in Figure 2.2.

**Figure 2.2 Causes for Blockages in Pipes Resulting in Non-recurring SSOs
(July 1, 2008 – September 30, 2008)**



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 inspected and cleaned as-needed in the next six months as part of our Continuous Sewer Assessment Program.

2.3 Wet Weather CSOs

Included in Appendix D are the modeled activation and volume statistics for SD1's 96 CSOs. This data was generated from the hydraulic modeling program previously described in Section 2.1.

2.4 Dry Weather CSOs

During the current reporting period, there were two CSOs during dry weather, with a total estimated discharge volume of 644,000 gallons. These dry weather CSOs were evaluated for cause, and solutions were identified to ensure they do not reoccur in accordance with our Nine Minimum Control No. 5 plan to reduce and eliminate dry weather CSOs. Table 2.3 summarizes the locations, causes of the overflows, estimated overflow volumes, and the actions taken to prevent these overflows from occurring in the future.

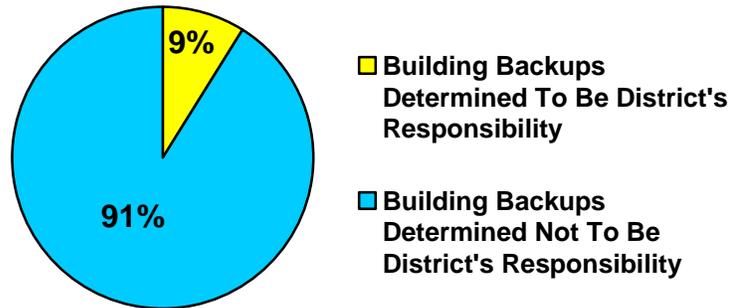
Table 2.3 Dry Weather CSOs
(July 1, 2008 – September 30, 2008)

Structure ID#	Location	Overflow Cause	Estimated Volume	Corrective Action Taken
0820001	4 th Street Chamber, Newport	Debris in bar rack	154,000 gallons	The construction of a new diversion weir wall was in progress at the time of this overflow but is now complete. This will prevent overflows due to debris in the bar rack. This new wall will provide sufficient time for cleaning of the bar rack before a dry weather overflow occurs. This location is also scheduled to be examined further for inline storage opportunity as part of our Watershed Plans as noted in Appendix D of our Nine Minimum Controls plan. The inline storage design will also aid in preventing future dry weather overflows.
1850150	Church Street, Taylor Mill	Flow from this area drains to the Banklick Pump Station, which is in the combined sewer system. The Pump Station lost power and the flow had no where to go except to back up in the influent sewers and release out of the Church St CSO. There is no bypass pipe at the Pump Station.	490,000 gallons	The Banklick Pump Station is scheduled to receive a permanent backup generator in 2009 in accordance with SD1's approved Pump Station Operation Plan for Backup Power.

2.5 Building Backups

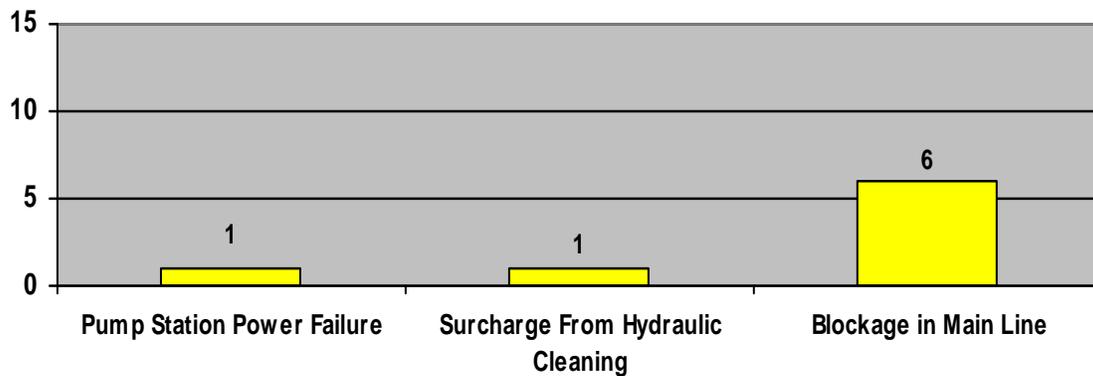
During the current reporting period, there were approximately 91 building backups throughout SD1's service area. Of these 91, approximately 8 were determined to be SD1's responsibility and 83 were determined not to be the responsibility of SD1, as shown in Figure 2.3. The backups determined not to be the responsibility of SD1 were due to causes such as breaks and blockages in private service laterals.

Figure 2.3 Building Backups: Public vs. Private
 (July 1, 2008 – September 30, 2008)



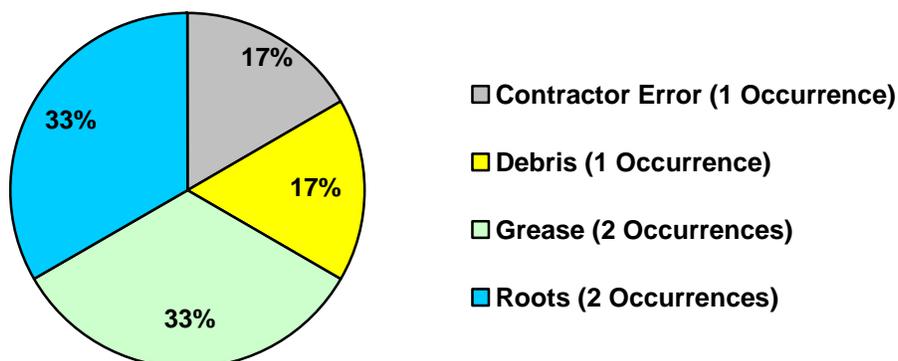
Causes for the approximate 8 building backups determined to be SD1's responsibility are detailed in Figure 2.4 below.

Figure 2.4 Causes of SD1-Responsible Building Backups
 (July 1, 2008 – September 30, 2008)



The 6 building backups caused by blockages can further be broken down into four secondary causes, as demonstrated in Figure 2.5.

Figure 2.5 Causes for Blockages in Main Line Resulting in a Building Backup
(July 1, 2008 – September 30, 2008)



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 inspected and cleaned as-needed in the next six months as part of our Continuous Sewer Assessment Program.

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APPENDIX A:

Consent Decree Schedule-2007 thru 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			2014							
							May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep		
1	Consent Decree	2449 days?	Wed 4/18/07	Tue 12/31/13			▶																											
3	NMC PROGRAM REQUIREMENTS	1850.38 days?	Wed 4/18/07	Fri 5/11/12			▶																											
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	▶																											
6	✓ Complete Draft O&M Scoping for entire system	65 days	Wed 4/18/07	Fri 6/22/07		Novak/Vatter	▶																											
7	✓ Draft Prioritized O&M Program	114 days	Wed 4/18/07	Fri 8/10/07		Novak/Vatter	▶																											
8	✓ Revised Program Presented to District	17 days	Fri 8/10/07	Mon 8/27/07			▶																											
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	▶																											
11	✓ Final Plan	288 days	Wed 4/18/07	Thu 1/31/08		Novak/Vatter	▶																											
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	▶																											
14	Recommendations Presented at Meeting	0 days	Mon 9/10/07	Mon 9/10/07			▶																											
15	✓ Final Plan	177 days	Wed 4/18/07	Fri 10/12/07		Novak/Vatter	▶																											
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			▶																											
18	✓ Dry Creek Analysis	165 days	Wed 4/18/07	Sun 9/30/07			▶																											
19	✓ Draft Plan	150 days	Wed 4/18/07	Sat 9/15/07		Novak/Vatter	▶																											
20	✓ Final Plan	233 days	Wed 4/18/07	Fri 12/7/07		Novak/Vatter	▶																											
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	▶																											
23	✓ Dry Weather Overflow Assessment and Recommendations	121 days	Wed 4/18/07	Fri 8/17/07			▶																											
24	✓ Draft River Water Intrusion Feasibility Plan	201 days	Wed 4/18/07	Mon 11/5/07		Novak/Vatter	▶																											
25	✓ Final River Water Intrusion Feasibility Plan	233 days	Wed 4/18/07	Fri 12/7/07		Novak/Vatter	▶																											
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	▶																											
28	✓ Identify locations for pilot floatables control	92 days	Wed 4/18/07	Thu 7/19/07		Novak/Vatter	▶																											
29	✓ Complete Installation Details (Awaiting Modeling to Confirm Sizing)	160 days	Wed 4/18/07	Tue 9/25/07			▶																											
30	✓ Complete Fabrication & Installation	50 days	Wed 9/26/07	Thu 11/15/07			▶																											
31	✓ Complete Pilot Field Study (Dependent on rain events captured)	348 days	Wed 4/18/07	Mon 3/31/08			▶																											
32	✓ Final prioritized plan	348 days	Wed 1/16/08	Mon 12/29/08		Novak/Vatter	▶																											
33	Submit NMC Documentation of Compliance	366 days	Wed 4/18/07	Fri 4/18/08	35	Novak/Vatter	▶																											
34	✓ Draft report to SD1	233 days	Wed 4/18/07	Fri 12/7/07			▶																											
35	✓ Actual Submittal Date	0 days	Wed 3/12/08	Wed 3/12/08		Novak/Vatter	▶																											
36	✓ APPROVAL DATE	0 days	Sun 7/6/08	Sun 7/6/08			▶																											
37	Submit NMC Documentation of Full Compliance	731 days	Wed 4/18/07	Sat 4/18/09	35	Novak/Vatter	▶																											
38	Submit First NMC Annual Report	60 days	Sat 4/18/09	Wed 6/17/09	35	Novak/Vatter	▶																											
39	Submit NMC Annual Report	1460 days?	Mon 5/12/08	Fri 5/11/12	35	Novak/Vatter	▶																											
40	Submit NMC Annual Report 1	364 days	Mon 5/12/08	Mon 5/11/09	35	Novak/Vatter	▶																											
41	Submit NMC Annual Report 2	364 days	Tue 5/12/09	Tue 5/11/10	35	Novak/Vatter	▶																											
42	Submit NMC Annual Report 3	365 days	Tue 5/11/10	Wed 5/11/11	35	Novak/Vatter	▶																											
43	Submit NMC Annual Report 4	1 day?	Thu 5/10/12	Fri 5/11/12			▶																											
44							▶																											
45							▶																											
46	CMOM PROGRAM REQUIREMENTS	2449 days	Wed 4/18/07	Tue 12/31/13			▶																											
47	✓ Submit CMOM Program Self-Assessment	183 days	Wed 4/18/07	Thu 10/18/07	36	Mulshine	▶																											
48	✓ Actual Submittal Date	0 days	Wed 10/17/07	Wed 10/17/07		Mulshine	▶																											
49	✓ APPROVAL DATE	0 days	Wed 5/14/08	Wed 5/14/08			▶																											
50	✓ Regroup Meeting	0 days	Thu 7/12/07	Thu 7/12/07		Kendall/Mulshine	▶																											
51	✓ CMOM Workshops	32 days	Mon 7/23/07	Fri 8/24/07		Kendall/Mulshine	▶																											
52	✓ Report submitted for internal review	28 days	Fri 8/24/07	Fri 9/21/07		Kendall/Mulshine	▶																											
53	✓ Report submitted to key people for final review	0 days	Fri 9/28/07	Fri 9/28/07		Kendall/Mulshine	▶																											
54	✓ Submit Grease Control Program (FOG)	183 days	Wed 4/18/07	Thu 10/18/07	36(a)	Clark/Martin	▶																											
55	✓ Actual Submittal Date	0 days	Tue 9/18/07	Tue 9/18/07	36(a)	Casey/Waters	▶																											
56	✓ APPROVAL DATE	0 days	Tue 1/8/08	Tue 1/8/08			▶																											

Project: CD Project First Five Years-Au Date: Mon 10/13/08
 Task
Milestone
Rolled Up Task
Rolled Up Progress
External Tasks
Group By Summary

Progress
Summary
Rolled Up Milestone
Split
Project 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		2014	
							May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan	May	Sep	Jan
57	Submit Pump Station Backup Power Plan	366 days	Wed 4/18/07	Fri 4/18/08	36(b)	Novak/Vatter	100%																				
58	Actual Submittal Date	0 days	Fri 12/14/07	Fri 12/14/07	36(b)	Novak/Vatter																					
59	APPROVAL DATE	0 days	Wed 5/14/08	Wed 5/14/08																							
60	Submit Sewer Overflow Response Plan (SORP)	183 days	Wed 4/18/07	Thu 10/18/07	36(c)	Kendall	100%																				
61	Actual Submittal Date	0 days	Tue 10/9/07	Tue 10/9/07	36(c)	Casey/Waters																					
62	APPROVAL DATE	0 days	Wed 5/14/08	Wed 5/14/08																							
63	Submit CMOM Annual Report	2449 days	Wed 4/18/07	Tue 12/31/13																							
64	Submit CMOM Annual Report 1	257 days	Wed 4/18/07	Mon 12/31/07			100%																				
65	Actual Submittal Date	0 days	Fri 12/28/07	Fri 12/28/07																							
66	Submit CMOM Annual Report 2	365 days	Mon 12/31/07	Tue 12/30/08			10%																				
67	Submit CMOM Annual Report 3	365 days	Wed 12/31/08	Thu 12/31/09																							
68	Submit CMOM Annual Report 4	365 days	Thu 12/31/09	Fri 12/31/10																							
69	Submit CMOM Annual Report 5	365 days	Fri 12/31/10	Sat 12/31/11																							
70	Submit CMOM Annual Report 6	365 days	Sat 12/31/11	Sun 12/30/12																							
71	Submit CMOM Annual Report 7	365 days	Mon 12/31/12	Tue 12/31/13																							
72	Complete SORP Annual Review	1826 days	Wed 5/14/08	Tue 5/14/13	36(c)	Kendall																					
73	Complete SORP Annual Review 2	365 days	Wed 5/14/08	Thu 5/14/09	36(c)	Kendall																					
74	Complete SORP Annual Review 3	364 days	Fri 5/15/09	Fri 5/14/10	36(c)	Kendall																					
75	Complete SORP Annual Review 4	364 days	Sat 5/15/10	Sat 5/14/11	36(c)	Kendall																					
76	Complete SORP Annual Review 5	364 days	Mon 5/16/11	Mon 5/14/12	36(c)	Kendall																					
77	Complete SORP Annual Review 6	365 days	Mon 5/14/12	Tue 5/14/13	36(c)	Kendall																					
78																											
79																											
80	INITIAL WATERSHED PROJECT LIST	2084.38 days	Wed 4/18/07	Mon 12/31/12																							
81	Complete Initial Watershed Projects (51 Total) (Actual Deadline 2014)	2084 days	Wed 4/18/07	Mon 12/31/12	37	Novak	71%																				
82	34 Projects Complete, 9 Under Construction (8 Associated with WRWWTP)	0 days	Tue 6/26/07	Tue 6/26/07	37	Novak																					
83	Submit First Initial Watershed Projects Annual Report	366 days	Wed 4/18/07	Fri 4/18/08	37	Mulshine	100%																				
84	Actual Submittal Date	0 days	Tue 4/8/08	Tue 4/8/08		Mulshine																					
85	Submit Initial Watershed Projects Annual Report	1521.38 days	Sat 4/19/08	Mon 6/18/12	37	Mulshine																					
90																											
91																											
92	PUMP STATION PLAN	1487.38 days?	Wed 4/18/07	Sat 5/14/11																							
93	Submit Pump Station Plan (PSP)	183 days	Wed 4/18/07	Thu 10/18/07	38	Novak/Vatter	100%																				
94	Actual Submittal Date	0 days	Tue 9/18/07	Tue 9/18/07		Novak/Vatter																					
95	APPROVAL DATE	0 days	Wed 5/14/08	Wed 5/14/08																							
96	Submit First Pump Station Plan Annual Report	409 days	Thu 10/18/07	Sun 11/30/08	38	Mulshine																					
97	Submit Pump Station Plan Annual Report	731 days?	Wed 5/13/09	Sat 5/14/11	38	Mulshine																					
98	Submit Pump Station Plan Annual Report 2	1 day?	Wed 5/13/09	Thu 5/14/09	38	Mulshine																					
99	Submit Pump Station Plan Annual Report 3	365 days	Thu 5/14/09	Fri 5/14/10	38	Mulshine																					
100	Submit Pump Station Plan Annual Report 4	365 days	Fri 5/14/10	Sat 5/14/11	38	Mulshine																					
101	Complete Remedial Measures at 8 Pump Stations	1353 days	Wed 4/18/07	Fri 12/31/10	38	Novak/Vatter	15%																				
102																											
103																											
104	WATERSHED PLANNING (1st of 4 Plans)	804 days	Wed 4/18/07	Tue 6/30/09																							
105	Develop Watershed Framework	226 days	Wed 4/18/07	Fri 11/30/07	39(a)	Gibson/Clements	100%																				
106	Complete Internal Review of Draft Framework	30 days	Sat 12/1/07	Mon 12/31/07	39(a)	Gibson/Clements																					
107	Obtain Public Input on Framework for Watershed Plans	58 days	Wed 1/23/08	Fri 3/21/08	40	Casey																					
108	Submit Framework for Watershed Plans	0 days	Fri 4/18/08	Fri 4/18/08	39(a)	Gibson/Clements																					
109	Actual Submittal Date	0 days	Thu 4/17/08	Thu 4/17/08																							
110	APPROVAL DATE	0 days	Thu 7/24/08	Thu 7/24/08																							
111	First Round of Watershed Plans	804 days	Wed 4/18/07	Tue 6/30/09	39(b)	Gibson																					
112	Draft 16 Watershed Characterization Reports	226 days	Wed 4/18/07	Fri 11/30/07		Clements	100%																				
113	Complete 16 Watershed Characterization Reports	335 days	Sat 12/1/07	Fri 10/31/08		Clements																					
114	Develop Alternatives Analysis Approach	212 days	Sat 9/1/07	Mon 3/31/08		Vatter/Turner																					
115	Conduct Banklick Pilot Project	169 days	Tue 11/13/07	Wed 4/30/08		Vatter/Turner																					
116	Refine Interim Water Quality Models	500 days	Wed 4/18/07	Sat 8/30/08		Scott	100%																				

Project: CD Project First Five Years-Au Date: Mon 10/13/08
 Task
Milestone
Rolloled Up Task
Rolloled Up Progress
External Tasks
Group By Summary

Progress
Summary
Rolloled Up Milestone
Split
Project Summary
Deadline

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APPENDIX B:
Initial Watershed Projects

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Initial Watershed Projects

CIP Code	CIP Title	Project Manager	Past Activity on Project from 7/1/2008 to 9/30/2008	Planned Activity for 10/1/2008 to 12/31/2008
East Watershed Projects				
C-054-00	Eastern Regional - Contract 1--Pond Creek Force Main and Gravity Sewer to Eastern Regional WWTP	Darleen McGuire	Continued work on punchlist items.	Complete a few minor punchlist items.
C-075-00	Eastern Regional - Contract 3--Riley Force Main and Gravity Sewer to the ERWWTP	Darleen McGuire	Continued construction.	Four tie-ins to be complete once Riley Road Pump Station is in service mid-November. Complete restoration and punchlist items.
C-076-00	Eastern Regional - Contract 4--Alex Licking Gravity Sewer & Force Main to Contract 1	Darleen McGuire	Sewer, force main and Alex- Licking Pump Station work completed and system put in service.	No activity planned; project is complete.
C-077-01	Eastern Regional - Contract 5--Sunset Force Main and Gravity Sewer	Jim Turner	Developer received an individual permit from the Army COE for the installation of the pump station and associated force main and gravity sewer. Easements were secured.	Contruction is planned to start on the sanitary lines before the end of this year.
C-079-00	Eastern Regional - Contract 7--Riley Road #2 Pump Station	Brandon Vatter	Continued construction.	Continued construction.
C-080-00	Eastern Regional - Contract 8--Alex-Licking and Sunset Pump Stations	Jim Turner	Back-up generator put into service in August. Old pump station removed. Completion of site restoration and significant construction items.	Final completion of remaining punchlist items.
C-426-00 & 01	Eastern Regional Wastewater Treatment Plant	Chris Novak	Final completion of remaining punchlist items.	No activity planned; project is complete.
West Watershed Projects				
C-001-00	Western Regional Conveyance System to Western Regional WWTP	Brandon Vatter	The project design was completed and sent out for bid.	Bids due 11/11/08; a contract award is anticipated in mid-December.
C-002-00	Western Regional - Sunnybrook Sewer	Brandon Vatter	The project was put out to bid and a contract was awarded.	Construction is scheduled to begin in November and continue over the next quarter. Construction period is approx 1 year.
C-003-00	Western Regional - Frogtown Interceptor Sewer (from Sunnybrook Dr. to Frogtown Rd.)	Brandon Vatter	Continued design.	Continued design.
C-004-00	Western Regional - South Fork Gunpowder Interceptor Sewer and Rosetta Sewer	Brandon Vatter	Continued design.	Continued design.
C-005-00	Western Regional - Narrows Road Diversion Pump Station	Brandon Vatter	Continued design.	Continued design.
C-038-00	Western Regional - Gunpowder Interceptor Sewer	Bob Wilson	Continued installation of 72-inch gravity sewer and manholes.	Continue installation of 72-inch gravity sewer and manholes.

Initial Watershed Projects

CIP Code	CIP Title	Project Manager	Past Activity on Project from 7/1/2008 to 9/30/2008	Planned Activity for 10/1/2008 to 12/31/2008
C-039-00	Western Regional - Richwood Sewer and Force Main	Brandon Vatter	Continued design.	Continued design.
C-063-00	Western Regional - Turkeyfoot Industrial Road Force Main	Bob Wilson	Began construction on second phase.	Complete second phase of construction. Continue design of phase 3.
C-414-02	American Sign Pump Station Rehabilitation	Jim Turner	Completion of punchlist items.	No construction activity planned, still waiting to receive O&M manuals before releasing final payment.
C-424-00	Western Regional Wastewater Treatment Plant	Chris Novak	Waiting final approval from KDOW on KPDES Discharge Permit and Facility Plan Amendment. Project put out to bid.	Bids due 11/14/08; a contract award is anticipated in mid-December.
Central Watershed Projects				
C-414-16	Meyer Road Pump Station Rehabilitation	Jim Turner	Completion of punchlist items.	No construction activity planned, still waiting to receive O&M manuals before releasing final payment.
North & East Watershed Projects				
C-475-00	Grit Chamber Projects	Bob Wilson	Completed construction of grit chamber and put structure into service.	No activity planned; project is complete.

APPENDIX C:
Recurring SSOs

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Recurring SSOs

No.	MHID	City	County	Model Predicted Overflow Activations	Model Predicted Overflow Volume (MG)
1	0020014	Silver Grove	Campbell	0	0.000
2	0050022	Fort Thomas	Campbell	1	0.006
3	0060001	Unincorp Campbell County	Campbell	1	0.019
4	0060002	Unincorp Campbell County	Campbell	1	0.002
5	0090009	Highland Heights	Campbell	0	0.000
6	0100001	Highland Heights	Campbell	0	0.000
7	0100002	Highland Heights	Campbell	1	0.008
8	0110010	Highland Heights	Campbell	1	0.004
9	0150023	Southgate	Campbell	0	0.000
10	0150058	Wilder	Campbell	1	0.006
11	0150063	Wilder	Campbell	0	0.000
12	0150064	Wilder	Campbell	0	0.000
13	0150065	Wilder	Campbell	1	0.004
14	0150069	Wilder	Campbell	0	0.000
15	0150351	Southgate	Campbell	0	0.000
16	0150356	Southgate	Campbell	0	0.000
17	0300008	Fort Thomas	Campbell	0	0.000
18	0410010	Fort Thomas	Campbell	0	0.000
19	0410011	Fort Thomas	Campbell	0	0.000
20	0410019	Fort Thomas	Campbell	0	0.000
21	0410036	Fort Thomas	Campbell	0	0.000
22	0410068	Newport	Campbell	0	0.000
23	0440074	Fort Thomas	Campbell	0	0.000
24	0530083	Newport	Campbell	0	0.000
25	0650025	Bellevue	Campbell	1	0.036
26	0650053	Bellevue	Campbell	0	0.000
27	0650098	Bellevue	Campbell	0	0.000
28	0860001	Wilder	Campbell	2	0.909
29	0860003	Wilder	Campbell	0	0.000
30	0860016	Wilder	Campbell	0	0.000
31	1040060	Independence	Kenton	0	0.000
32	1090069	Edgewood	Kenton	0	0.000
33	1110025	Erlanger	Kenton	0	0.000
34	1110067	Erlanger	Kenton	0	0.000
35	1110161	Erlanger	Kenton	0	0.000
36	1110294	Erlanger	Kenton	0	0.000
37	1160004	Crestview Hills	Kenton	0	0.000
38	1190007	Erlanger	Kenton	0	0.000
39	1220029	Erlanger	Kenton	0	0.000
40	1240008	Erlanger	Kenton	0	0.000
41	1280008	Erlanger	Kenton	0	0.000
42	1560016	Fort Mitchell	Kenton	0	0.000
43	1560019	Fort Mitchell	Kenton	0	0.000
44	1560074	Fort Mitchell	Kenton	0	0.000
45	1570100	Fort Mitchell	Kenton	0	0.000
46	1590006	Lakeside Park	Kenton	0	0.000
47	1600005	Lakeside Park	Kenton	0	0.000
48	1600009	Lakeside Park	Kenton	0	0.000
49	1600029	Lakeside Park	Kenton	0	0.000
50	1600049	Lakeside Park	Kenton	0	0.000
51	1600050	Lakeside Park	Kenton	0	0.000
52	1600059	Lakeside Park	Kenton	0	0.000
53	1600110	Lakeside Park	Kenton	0	0.000
54	1600113	Lakeside Park	Kenton	0	0.000
55	1610102	Fort Mitchell	Kenton	0	0.000
56	1610114	Fort Mitchell	Kenton	0	0.000

Recurring SSOs					
No.	MHID	City	County	Model Predicted Overflow Activations	Model Predicted Overflow Volume (MG)
57	1610115	Fort Mitchell	Kenton	0	0.000
58	1620001	Fort Mitchell	Kenton	0	0.000
59	1630012	Crescent Springs	Kenton	0	0.000
60	1680001	Unincorp Kenton County	Kenton	0	0.000
61	1690043	Fort Wright	Kenton	0	0.000
62	1700025	Park Hills	Kenton	0	0.000
63	1730104	Fort Mitchell	Kenton	0	0.000
64	1730110	Bromley	Kenton	0	0.000
65	1760047	Edgewood	Kenton	0	0.000
66	1760048	Edgewood	Kenton	0	0.000
67	1820014	Villa Hills	Kenton	0	0.000
68	1830017	Unincorp Boone County	Boone	0	0.000
69	1830020	Unincorp Boone County	Boone	0	0.000
70	1830067	Unincorp Boone County	Boone	0	0.000
71	1860108	Taylor Mill	Kenton	0	0.000
72	1870013	Covington	Kenton	0	0.000
73	1890001	Lakeside Park	Kenton	0	0.000
74	1890010	Lakeside Park	Kenton	0	0.000
75	1890011	Lakeside Park	Kenton	0	0.000
76	1900028	Cold Spring	Campbell	1	0.003
77	1920163	Cold Spring	Campbell	0	0.000
78	1950199	Fort Wright	Kenton	0	0.000
79	1960012	Crestview Hills	Kenton	0	0.000
80	2030097	Edgewood	Kenton	0	0.000
81	2090001	Elsmere	Kenton	0	0.000
82	2090026	Elsmere	Kenton	0	0.000
83	2110002	Elsmere	Kenton	3	0.018
84	2120001	Elsmere	Kenton	0	0.000
85	2120002	Elsmere	Kenton	0	0.000
86	2120041	Elsmere	Kenton	0	0.000
87	2130022	Villa Hills	Kenton	0	0.000
88	2150050	Crestview	Kenton	1	0.002
89	2160036	Fort Mitchell	Kenton	0	0.000
90	2280011	Unicorp Kenton County	Kenton	0	0.000
91	2280012	Unicorp Kenton County	Kenton	0	0.000
92	2290001	Crescent Springs	Kenton	0	0.000
93	2300123	Unicorp Kenton County	Kenton	0	0.000
94	2380001	Unincorp Boone County	Boone	0	0.000
95	2390002	Unincorp Boone County	Boone	0	0.000
96	2390006	Unincorp Boone County	Boone	0	0.000
97	2390008	Unincorp Boone County	Boone	0	0.000
98	2390762	Unincorp Boone County	Boone	0	0.000
99	1950PS1	Fort Wright	Kenton	1	0.005
TOTAL				16	1.02

Threshold for model activation is 0.01 MGD and 0.001 MG

APPENDIX D:
Wet Weather CSOs

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Wet Weather CSOs

No.	CSO ID	KPDES Permit #	Model Predicted Activations	Model Predicted Overflow Volume (MG)
1	1870194	KY0021466 - Outfall 79	3	0.044
2	1850158	KY0021466 - Outfall 76	15	4.185
3	1870193	KY0021466 - Outfall 78	10	0.196
4	1510199	KY0021466 - Outfall 67	NA	NA
5	1840130	To Be Permitted	8	0.228
6	0880081	KY0021466 - Outfall 36	14	1.880
7	0570089	KY0021466 - Outfall 16	11	4.182
8	0840116	KY0021466 - Outfall 27	18	0.943
9	0570090	KY0021466 - Outfall 17	9	2.606
10	0790086	KY0021466 - Outfall 29	16	6.734
11	1480187	KY0021466 - Outfall 30	15	34.104
12	0640090	KY0021466 - Outfall 24	16	8.365
13	1420142	KY0021466 - Outfall 51	18	6.412
14	0840111	To Be Permitted	13	2.650
15	0910068	KY0021466 - Outfall 37	9	1.226
16	0980081	KY0021466 - Outfall 48	19	5.884
17	1500131	KY0021466 - Outfall 66	10	0.608
18	0840112	To Be Permitted	12	0.187
19	1490132	KY0021466 - Outfall 65	2	0.405
20	0630061	KY0021466 - Outfall 83	11	0.410
21	0790084	KY0021466 - Outfall 31	20	1.799
22	0650090	KY0021466 - Outfall 26	1	0.076
23	0910065	KY0021466 - Outfall 38	12	9.117
24	0610071	KY0021466 - Outfall 21	20	2.198
25	0620075	KY0021466 - Outfall 23	16	1.387
26	0880082	KY0021466 - Outfall 35	2	0.013
27	0600104	To Be Permitted	5	0.017
28	0600097	KY0021466 - Outfall 19	11	0.540
29	0540009	To Be Permitted	7	0.097
30	0540044	To Be Permitted	7	0.160
31	0600094	KY0021466 - Outfall 18	12	0.291
32	0610072	KY0021466 - Outfall 20	6	0.042
33	0620077	KY0021466 - Outfall 22	7	0.070
34	0930105	KY0021466 - Outfall 41	15	3.572
35	1440209	KY0021466 - Outfall 56	21	6.002
36	1470093	KY0021466 - Outfall 63	12	3.918
37	1720109	KY0021466 - Outfall 73	3	0.479
38	1880091	KY0021466 - Outfall 80	0	0.000
39	0960063	KY0021466 - Outfall 45	1	0.046
40	1710116	KY0021466 - Outfall 68	12	1.575
41	0600096	To Be Permitted	5	0.044
42	0770096	KY0021466 - Outfall 28	17	1.018
43	0870079	KY0021466 - Outfall 34	13	2.833
44	0930104	KY0021466 - Outfall 40	0	0.000
45	0930106	KY0021466 - Outfall 39	0	0.000
46	1420144	KY0021466 - Outfall 52	0	0.000
47	1420145	KY0021466 - Outfall 53	0	0.000
48	1420147	KY0021466 - Outfall 55	1	0.002
49	1440206	KY0021466 - Outfall 61	12	0.266
50	1440212	KY0021466 - Outfall 58	12	0.449

Wet Weather CSOs				
No.	CSO ID	KPDES Permit #	Model Predicted Activations	Model Predicted Overflow Volume (MG)
51	1730263	KY0021466 - Outfall 74	3	0.073
52	0870078	KY0021466 - Outfall 33	2	0.008
53	1350155	KY0021466 - Outfall 49	0	0.000
54	1420141	KY0021466 - Outfall 50	12	0.127
55	1440205	KY0021466 - Outfall 60	7	0.130
56	1710114	KY0021466 - Outfall 69	0	0.000
57	1710119	KY0021466 - Outfall 70	1	0.134
58	1710121	KY0021466 - Outfall 71	1	0.050
59	1880090	KY0021466 - Outfall 81	1	0.001
60	0550024	To Be Permitted	0	0.000
61	0930102	KY0021466 - Outfall 43	0	0.000
62	0930103	KY0021466 - Outfall 42	0	0.000
63	0960064	KY0021466 - Outfall 44	0	0.000
64	0980073	KY0021466 - Outfall 46	5	0.015
65	0980080	KY0021466 - Outfall 47	0	0.000
66	1420146	KY0021466 - Outfall 54	0	0.000
67	1470089	KY0021466 - Outfall 62	0	0.000
68	1480185	To Be Permitted	7	0.075
69	1490172	KY0021466 - Outfall 64	0	0.000
70	1710124	KY0021466 - Outfall 72	1	0.054
71	0530110	To Be Permitted	0	0.000
72	0330100	KY0021466 - Outfall 12	0	0.000
73	0340050	KY0021466 - Outfall 14	2	0.010
74	0340051	KY0021466 - Outfall 13	1	0.027
75	0600095	To Be Permitted	0	0.000
76	0910066	To Be Permitted	0	0.000
77	0910067	To Be Permitted	NA	NA
78	1320093	To Be Permitted	0	0.000
79	0010001	To Be Permitted	5	0.508
80	1730259	KY0021466 - Outfall 75	3	0.072
81	0200069	KY0021466 - Outfall 11	7	0.017
82	0630054	To Be Permitted	0	0.000
83	0660085	To Be Permitted	0	0.000
84	1310100	To Be Permitted	0	0.000
85	1310106	To Be Permitted	0	0.000
86	1380054	To Be Permitted	0	0.000
87	1380083	To Be Permitted	0	0.000
88	1440204	KY0021466 - Outfall 59	0	0.000
89	1440207	To Be Permitted	0	0.000
90	0030031	KY0021466 - Outfall 10	0	0.000
91	0650100	KY0021466 - Outfall 25	5	0.016
92	0010047	To Be Permitted	0	0.000
93	0650008	To Be Permitted	0	0.000
94	1510098	To Be Permitted	0	0.000
95	0690008	To Be Permitted	0	0.000
96	1510133	To Be Permitted	0	0.000
TOTAL			542	118.58

Threshold for model activation is 0.01 MGD and 0.001 MG