

MAYOR JIM GRAY



LEXINGTON

CHARLES H. MARTIN, P.E.
DIRECTOR
WATER QUALITY

January 29, 2018

Chief, Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
Box 7611 Ben Franklin Station
Washington, D.C. 20044-7611
Re: DOJ No. 90-5-1-1-08858

Chief
Water Programs Enforcement Branch
Environmental Protection Agency Region 4
61 Forsyth Street SW
Atlanta, Georgia 30303

RE: Civil Action No. 5:06-cv-386
Lexington-Fayette Urban County Government – Kentucky
KPDES Permit Nos.: KY0021491 / KY0021504 / KYS000002
Quarterly Report (October – December 2017)

Dear Sir / Madam:

In accordance with the provisions of Section X, Paragraph 29.A of the above referenced document, the Lexington-Fayette Urban County Government (LFUCG) submits the enclosed October – December 2017 Quarterly Report to provide an update on Consent Decree projects and activities during the past quarter.


If you should have any questions, please contact me at (859) 425-2400.

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 the 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.





Signed



Date

Charles H. Martin, P.E., Director
Division of Water Quality

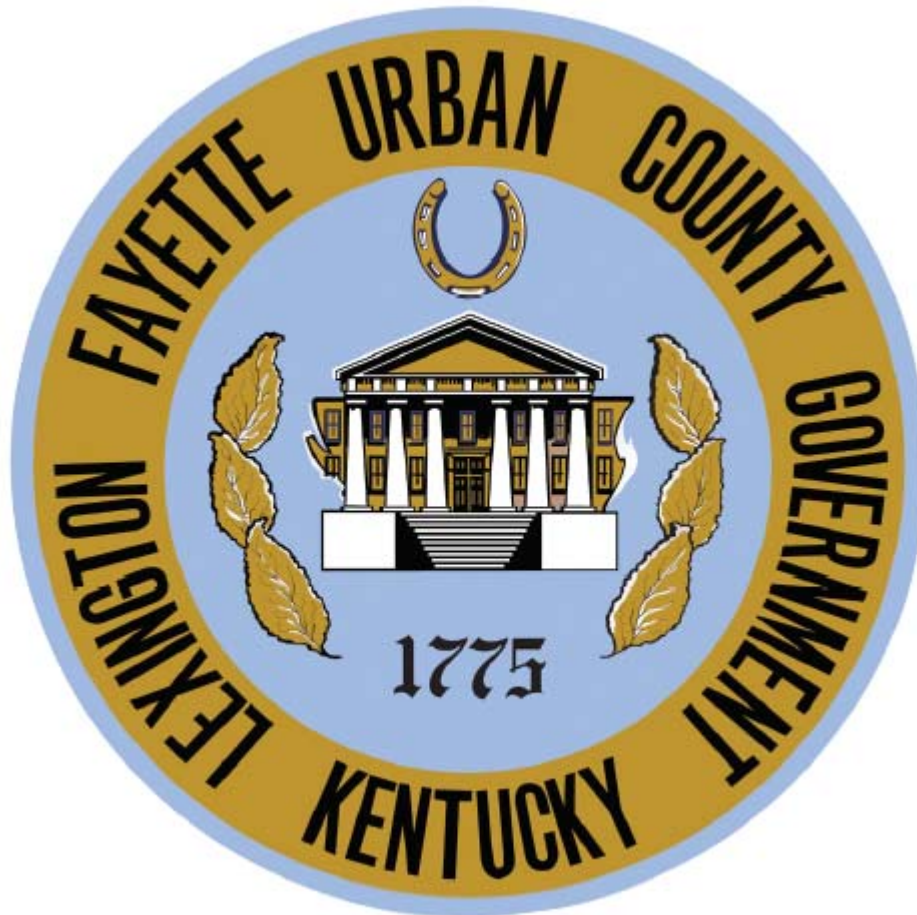
Enclosure: 2 copies to Water Programs Enforcement Branch; 1 copy to all other addresses

pc: Director of the Division of Enforcement
Department for Environmental Protection
300 Sower Boulevard
Frankfort, KY 40601

Janet Graham, LFUCG Commissioner of Law
Dowell Hoskins-Squier, P.E., LFUCG Commissioner of Environmental Quality and Public
Works



Consent Decree Quarterly Report



October – December 2017 Quarterly Report
Fourth Quarter 2017

January 29, 2018

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Section I
CD Quarterly Report
Fourth Quarter 2017
January 29, 2018

CD Language:

X. REPORTING REQUIREMENTS AND APPROVAL OF SUBMITTALS

29. Reports.

A. Quarterly Reports.

(i) A description of all projects and activities conducted during the most recently completed calendar quarter to comply with the requirements of this Consent Decree, in Gantt chart or similar format.

LFUCG's Response:

The following two tables provide information on projects and activities conducted during the previous calendar quarter related to the sanitary sewer system. Table 1.1 highlights activities related to the Remedial Measures Plans and the Capacity, Management, Operation and Maintenance Programs; and Table 1.2 shows the schedules for the Remedial Measures Plans projects, including interim milestones and progress to date. Based on guidance provided in a letter from EPA and KDEP to LFUCG dated February 12, 2014, LFUCG may adjust the completion years for the interim milestones. If any interim milestone dates have changed since the previously submitted quarterly report, they are highlighted yellow in Table 1.2.

Following Tables 1.1 and 1.2, Lexington is providing two tables that show the Recurring SSOs from Appendix A of the Consent Decree which have now been abated or relocated. An "Abated SSO" is a Recurring SSO from a manhole or pump station, as set forth in Appendix A of the Consent Decree, which has been "abated" by a repair or construction project and will not overflow during a rain event equal to or less than the design storm. A "Relocated SSO" is a Recurring SSO from a manhole, as set forth in Appendix A of the Consent Decree, which has been either removed from service or no longer overflows due to an adjacent construction project; however, this manhole's SSO has not been "abated" because the SSO was "relocated" to a new manhole or different existing manhole. The new SSO manhole to which the SSO was "relocated" will ultimately be "abated" by a future construction project. The list from Appendix A of the Consent Decree showed 111 Recurring SSO Locations. As of the fourth quarter of 2017, 49 of these locations have been abated and nine have been relocated. Table 1.3 shows the Recurring Manhole SSOs that have been abated or relocated, and Table 1.4 shows the Recurring Pump Station SSOs that have been abated.

**Table 1.1
CD Quarterly Report
Fourth Quarter 2017**

Consent Decree Section Number	Task	Work Completed – Fourth Quarter (October 1, 2017 – December 31, 2017)	
Sanitary Sewer System and WWTP Remedial Measures Plan (RMP)			
VII(15)(G)	Group 1 – Sanitary Sewer System and WWTP RMP (EH, WH, WR)	The EPA and KDEP issued a full approval of the RMPs, including the Implementation Schedule dated February 12, 2016, on March 18, 2016.	
	Group 2 – Sanitary Sewer System and WWTP RMP (TB, CR)		
	Group 3 – Sanitary Sewer System and WWTP RMP (NE, SE)		
VII(15)(G)(viii)	Sanitary Sewer System and WWTP RMP Implementation – Project Status	Table 1.2 includes a list of the RMP projects organized by group and sewershed, shows the completion dates for the project milestones, and indicates the milestones which have been completed to date.	
		<p>RMP Projects in design during the fourth quarter of 2017 include the following:</p> <ul style="list-style-type: none"> • CR-5 Shandon Park Trunks • CR-6 Winburn Trunk • CR-7 Thoroughbred Acres Trunk • EH-2 East Hickman Pump Station, Phase 1 • EH-3 East Hickman Wet Weather Storage Tank • EH-11 Eliminate East Lake Pump Station • TB-6 UK Trunk C • TB-7 UK Trunk D • TB-10 Midland Avenue Trunk, Phase 1 (TBC) • TB-11 WWTP-10 Primary Digesters • WH-5 Lansdowne South Trunk • WH-6 West Hickman Main Trunk D • WH-21 WWTP-13 Waste Sludge Holding • WH-21 WWTP-17 Scum Facility • WR-2 Wolf Run Main Trunk B • WR-3 Wolf Run Main Trunk C 	<p>RMP Projects under construction during the fourth quarter of 2017 include the following:</p> <ul style="list-style-type: none"> • CR-2 Expansion Area 3 Pump Station • CR-3 Expansion Area 3 Force Main • CR-4 Expansion Area 3 Trunk • TB-11 WWTP-2 Primary Clarifier Equipment • WH-1 WH7 Wet Weather Storage Tank • WH-20 West Hickman WWTP Wet Weather Storage Tank • WH-21 WWTP-1 Influent Pump Station (with WH-20) • WH-21 WWTP-2 Raw Sewage Pump Station (with WH-20) • WH-21 WWTP-3 Leaping Weir (with WH-20) • WH-21 WWTP-7 Clarifier Flow Distribution • WH-21 WWTP-18 Non-potable Water System (with WH-20) • WH-21 WWTP-20 Odor Control Facilities, Phase 2 (with WH-20) <p>RMP Projects completed during the fourth quarter of 2017 include the following:</p> <ul style="list-style-type: none"> • CR-1 Lower Cane Run Wet Weather Storage Tank • SE-1 South Elkhorn Pump Station Upsize • WH-3 West Hickman Main Trunk B • WH-4 West Hickman Main Trunk C • WH-21 WWTP-6 Zone 2 Aeration, Phase 2

Table 1.1
CD Quarterly Report
Fourth Quarter 2017



<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Completed – Fourth Quarter (October 1, 2017 – December 31, 2017)</i>
Capacity, Management, Operation and Maintenance (CMOM) Programs		
VII(16)	CMOM Programs Self-Assessment	<p>The CMOM Programs Self-Assessment, dated June 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, without further comment.</p> <ul style="list-style-type: none"> • Work completed or in progress during the fourth quarter of 2017 is as follows: <ul style="list-style-type: none"> ○ Continued implementation and tracking of CMOM Self-Assessment activities.
VII(16)(A)	Sewer Overflow Response Plan (SORP)	<p>The SORP, dated July 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, without further comment.</p> <ul style="list-style-type: none"> • Work completed or in progress during the fourth quarter of 2017 is as follows: <ul style="list-style-type: none"> ○ Submitted the 2017 updated SORP to the EPA and Kentucky EEC on October 12, 2017. ○ Continued implementation and tracking of SORP activities with an emphasis on root cause analysis protocols.
VII(16)(B)	System Capacity Assurance Program (CAP)	<p>The CAP, dated March 2014, was approved by the EPA and Kentucky EEC on July 3, 2014.</p> <ul style="list-style-type: none"> • Work completed or in progress during the fourth quarter of 2017 is as follows: <ul style="list-style-type: none"> ○ Completed installation of equipment to support LFUCG’s permanent flow monitoring network. ○ Completed analysis of rainfall and flow monitoring data collected during the 2017 temporary monitoring season. ○ Began annual model verification / recalibration using 2017 flow monitoring data and began updating the model to incorporate completed capital projects. ○ Continued CAP implementation by reviewing / processing capacity requests for flow increases to the LFUCG sewer system in accordance with the System Capacity Assurance Program Plan. ○ Continued to provide modeling support during design of RMP projects and update the model for other non-RMP sewer improvements completed by LFUCG. ○ Harvested earned credits from sewer improvements completed by LFUCG in 4Q17. ○ Identified rainfall and flow monitoring locations for the 2018 temporary monitoring season. The Request for Proposals (RFP) was issued during the fourth quarter. ○ Issued an RFP for the biennial program audit. ○ Performed minor enhancements / maintenance of the Credit Tracking Information Management System (CTIMS) software. CTIMS now includes additional report formats and a real-time polygon generation tool for approved capacity requests. ○ Continued implementation and tracking of CAP activities.

Table 1.1
CD Quarterly Report
Fourth Quarter 2017

Consent Decree Section Number	Task	Work Completed – Fourth Quarter (October 1, 2017 – December 31, 2017)
VII(16)(C)	Fats, Oils, and Grease (FOG) Control Program	<p>The FOG Control Program, dated December 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, with comment.</p> <ul style="list-style-type: none"> • Work completed or in progress during the fourth quarter of 2017 is as follows: <ul style="list-style-type: none"> ○ Completed permitting for all known FSEs, continued to find and permit previously unknown and new facilities. ○ Issued 34 FOG permits and waivers (27 permits, 7 waivers). ○ Continued routine inspections of Food Service Establishments (FSEs) based on risk ranking. ○ Performed 260 FOG inspections (205 permits, 55 waivers). ○ Issued 15 Notices of Violation (NOVs). ○ No enforcement actions issued this quarter. ○ Issued an updated Memorandum of Understanding with the Lexington-Fayette County Health Department (LFCHD) to include FOG training services in LFCHD’s Food Manager Certification classes. ○ LFUCG and Bluegrass Greensource hosted the annual Gobble Grease Toss on Friday, November 24, 2017. The event encourages Lexington residents to bring leftover fats, oils, and grease from the preparation of their Thanksgiving dinners to be recycled instead of putting them down the drain and causing blockages in the sanitary sewer system. ○ Continued implementation and tracking of FOG Control Program activities.
VII(16)(D)	Gravity Line Preventative Maintenance Program (GLPMP)	<p>The GLPMP, dated December 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, with comment.</p> <ul style="list-style-type: none"> • Work completed or in progress during the fourth quarter of 2017 is as follows: <ul style="list-style-type: none"> ○ Continued implementation and tracking of GLPMP activities.
VII(16)(E)	Pump Station Operation Plan for Power Outages (PSOPPO)	<p>The PSOPPO, dated September 2012, was approved by the EPA and Kentucky EEC on October 3, 2013.</p> <ul style="list-style-type: none"> • Work completed or in progress during the fourth quarter of 2017 is as follows: <ul style="list-style-type: none"> ○ Continued implementation and tracking of PSOPPO activities.

Table 1.2
CD Quarterly Report
Fourth Quarter 2017
RMP Project Milestones



Completion deadlines are based on the approved schedule dated February 12, 2016.

 = Completed Work
 = Adjusted Interim Milestone

Group	Sewer-shed	No.	Project Name	Preliminary Design	Complete Design	Award Contract	Begin Construction	Complete Permitting	Complete Construction
Group 1	East Hickman	1	East Hickman FM ¹	2017	2023	2024	2024	2024	2025
		2	East Hickman PS, Phase 1	2016	2017	2018	2018	2018	2019
			East Hickman PS, Phase 2 ¹	NA	NA	NA	2025	2025	2025
		3	East Hickman WWS Tank	2016	2017	2018	2018	2018	2019
		4	Overbrook Farm FM	2020	2021	2022	2022	2022	2022
		5	Overbrook Farm PS	2020	2020	2021	2021	2021	2022
		6	Overbrook Farm Trunk	2021	2021	2022	2022	2022	2022
		7	Delong Road PS & FM	2022	2022	2023	2023	2023	2024
		8	Armstrong Mill Trunks	2023	2023	2024	2024	2024	2024
		9	Hartland 2 & 3 Trunks	2023	2023	2024	2024	2024	2024
		10	Hartland 1 Trunk	2023	2023	2024	2024	2024	2024
		11	Eliminate East Lake PS	2018	2018	2019	2019	2019	2019
		12	Century Hills Trunk Upsize	2013	2013	2014	2014	2014	2014
		13	East Lake Trunk Upsize	2013	2013	2014	2014	2014	2014
		14	Autumn Ridge Trunk Upsize	2025	2025	2026	2026	2026	2026
	Expansion Area #1 Property Acquisition	2020	2020						
Group 1	West Hickman	1	WH7 WWS Tank	2017	2017	2017	2017	2017	2018
		2	West Hickman Main Trunk A	2013	2013	2014	2014	2014	2015
		3	West Hickman Main Trunk B	2016	2016	2017	2017	2017	2017
		4	West Hickman Main Trunk C	2016	2016	2017	2017	2017	2017
		5	Lansdowne South Trunk	2018	2018	2019	2019	2019	2019
		6	West Hickman Main Trunk D	2018	2018	2019	2019	2019	2019
		7	Merrick Trunk	2023	2023	2024	2024	2024	2024
		8	Ecton Trunk	2024	2024	2025	2025	2025	2025
		9	Southeastern Hills Trunk	2020	2020	2021	2021	2021	2021
		10	West Hickman Main Trunk E	2022	2022	2023	2023	2023	2023
		11	West Hickman Main Trunk F	2023	2023	2024	2024	2024	2024
		12	Sutherland Trunk	2025	2025	2026	2026	2026	2026
		13	Idle Hour Trunk	2013	2013	2014	2014	2014	2014
		14	Centre Parkway Trunk	2025	2025	2026	2026	2026	2026
		15	The Island Trunks	2025	2025	2026	2026	2026	2026
		16	Woodhill Trunk	2013	2015	2015	2015	2015	2015
		17	Prather Road Trunk	2025	2025	2026	2026	2026	2026
		18	Richmond Road Trunk	2025	2025	2026	2026	2026	2026
		19	Wildwood Park Trunk	2021	2021	2022	2022	2022	2022
		20	WH WWTP WWS Tank	2015	2016	2016	2016	2016	2018
			WH WWTP WWS Tank Phase 2	2021	2021	2022	2022	2022	2023
		21	West Hickman WWTP Reliability Upgrades						
			WWTP-1 Influent Pump Station	2018	2018	2018	2018	2018	2018
			WWTP-2 Raw Sewage Pump Station	2018	2018	2018	2018	2018	2018
			WWTP-3 Leaping Weir	2018	2018	2018	2018	2018	2018
			WWTP-4 BPR Improvements	2019	2020	2020	2020	2020	2020
			WWTP-5 Zone 1 Aeration	2013	2014	2014	2014	2014	2014
			WWTP-6 Zone 2 Aeration, Phase 1	2013	2014	2014	2014	2014	2014
			Zone 2 Aeration, Phase 2	2017	2017	2017	2017	2017	2017
			WWTP-7 Clarifier Flow Distribution	2019	2019	2019	2019	N/A	2019
			WWTP-8 Disinfection	2022	2022	2022	2022	2022	2022
			WWTP-9 Dechlorination	2022	2022	2022	2022	2022	2022
	WWTP-10 Final Effluent PS	2020	2021	2021	2021	2021	2021		
	WWTP-11 Return Activated Sludge Pumping	2023	2023	2023	2023	2023	2023		
	WWTP-12 Waste Activated Sludge Pumping	2024	2024	2024	2024	2024	2024		
	WWTP-13 Waste Sludge Holding	2018	2018	2018	2018	2018	2018		
	WWTP-14 Waste Sludge Thickening	2025	2025	2025	2025	2025	2025		
	WWTP-15 Belt Press Replacement	2021	2021	2021	2021	2021	2021		
	WWTP-16 Dewatering	2024	2024	2024	2024	2024	2024		
	WWTP-17 Scum Facility	2018	2018	2018	2018	2018	2018		
	WWTP-18 Non-potable Water System	2018	2018	2018	2018	2018	2018		
	WWTP-19 Emergency Electrical Power	2023	2023	2023	2023	2023	2023		
	WWTP-20 Odor Control Facilities, Phase 1	2013	2014	2014	2014	2014	2014		
	Odor Control Facilities, Phase 2	2018	2018	2018	2018	2018	2018		
	WWTP-21 Road Repair	2026	2026	2026	2026	2026	2026		
Group 1	Wolf Run	1	Wolf Run Main Trunk A	2013	2014	2014	2014	2014	2015
		2	Wolf Run Main Trunk B	2017	2018	2018	2018	2018	2018
		3	Wolf Run Main Trunk C	2017	2018	2018	2018	2018	2019
		4	Wolf Run Main Trunk D	2020	2020	2021	2021	2021	2021
		5	Wolf Run Main Trunk E	2020	2020	2021	2021	2021	2021
		6	Wolf Run Main Trunk F	2021	2021	2022	2022	2022	2022
		7	Wolf Run Main Trunk G	2022	2022	2023	2023	2023	2023
		8	Wolf Run WWS Tank	2014	2015	2015	2015	2015	2016
		9	Parkers Mill Trunk	2022	2022	2023	2023	2023	2023
		10	Bob O Link Trunk	2013	2013	2014	2014	2014	2014
		11	Wolf Run Pump Station	2009	-	2012	2012	-	2014

Table 1.2
CD Quarterly Report
Fourth Quarter 2017
RMP Project Milestones

Completion deadlines are based on the approved schedule dated February 12, 2016.

 = Completed Work
 = Adjusted Interim Milestone

Group	Sewer-shed	No.	Project Name	Preliminary Design	Complete Design	Award Contract	Begin Construction	Complete Permitting	Complete Construction
Group 2	Cane Run	1	Lower Cane Run WWS Tank	2014	2015	2015	2015	2015	2017
		2	Expansion Area 3 PS	2016	2017	2017	2017	2017	2018
		3	Expansion Area 3 FM	2016	2017	2017	2017	2017	2018
		4	Expansion Area 3 Trunk	2017	2017	2018	2018	2018	2018
		5	Shandon Park Trunks	2017	2017	2018	2018	2018	2018
		6	Winburn Trunk	2017	2017	2018	2018	2018	2018
		7	Thoroughbred Acres Trunk	2017	2017	2018	2018	2018	2018
		8	Sharon Village PS and FM	2018	2018	2019	2019	2019	2020
		9	Lower Griffin Gate Trunk	2014	2016	2018	2018	2018	2018
		10	Upper Cane Run WWS Tank	2020	2020	2021	2021	2021	2021
		11	Cane Run Trunk	2018	2018	2019	2019	2019	2019
		12	Lexmark Trunk A	2019	2019	2020	2020	2020	2020
		13	Lexmark Trunk B	2019	2019	2020	2020	2020	2020
		14	New Circle Trunk A	2020	2020	2021	2021	2021	2021
		15	New Circle Trunk B	2021	2021	2022	2022	2022	2022
		16	Griffin Gate Rehab	2019	2019	2020	2020	2020	2020
Group 2	Town Branch	1	Town Branch WWTP WWS Tank	2013	2014	2014	2014	2015	2016
			Town Branch WWTP WWS Tank Phase 2	2023	2023	2024	2024	2024	2025
		2	Town Branch PS Replacement	2018	2019	2019	2019	2019	2019
		3	Tie-in Lower Cane Run FM	2014	2014	2014	2015	2015	2016
		4	UK Trunk A	2016	2016	2016	2016	2016	2017
		5	UK Trunk B (Newtown Pike Extension)	-	-	-	2014	-	2016
		6	UK Trunk C	2018	2018	2019	2019	2019	2019
		7	UK Trunk D	2019	2019	2020	2020	2020	2020
		8	UK Trunk E	2019	2019	2020	2020	2020	2020
		9	Georgetown Road Trunk	2024	2024	2025	2025	2025	2025
		10	Midland Avenue Trunk, Phase 1 (TBC)	2017	2018	2018	2019	2019	2023
			Midland Avenue Trunk, Phase 2	2022	2022	2023	2023	2023	2023
		11	Town Branch WWTP Reliability Upgrades						
		WWTP-1	Headworks	2015	2016	2016	2016	2016	2016
		WWTP-2	Primary Clarifier Equipment	2018	2018	2018	2018	2018	2018
		WWTP-3	Aeration Basins	2020	2021	2021	2021	2021	2021
		WWTP-4	Final Clarifier Equipment, Phase 1	2014	2014	2014	2014	2014	2014
			Final Clarifier Equipment, Phase 2	2024	2025	2025	2025	2025	2025
		WWTP-5	RAS Pump Station	2022	2022	2022	2022	2022	2022
		WWTP-6	WAS Pump Station	2026	2026	2026	2026	2026	2026
		WWTP-7	Gravity Thickeners	2018	2019	2019	2019	2019	2019
WWTP-8	Disinfection	2024	2024	2024	2024	2024	2024		
WWTP-9	Non-potable Water PS	2024	2024	2024	2024	2024	2024		
WWTP-10	Primary Digesters	2016	2017	2018	2018	2018	2018		
WWTP-11	Secondary Digesters / Sludge Holding	2019	2020	2020	2020	2020	2020		
WWTP-12	Dewatering	2018	2019	2019	2019	2019	2019		
WWTP-13	Scum Facility	2021	2021	2021	2021	2021	2021		
WWTP-14	Site	2023	2024	2024	2024	2024	2026		
Group 3	North Elkhorn	1	North Elkhorn PS WWS Tank	2025	2025	2026	2026	2026	2026
		2	Eastland Trunk	2022	2022	2023	2023	2023	2023
		3	Liberty Road Trunk	2020	2020	2021	2021	2021	2021
		4	Greenbrier #2 PS	2024	2024	2025	2025	2025	2025
		5	Greenbrier Trunk	2024	2024	2025	2025	2025	2025
		6	Floyd Drive Rehab	2023	2023	2024	2024	2024	2024
		7	Expansion Area 2A Projects	-	-	2012	2012	-	2014
	South Elkhorn	1	South Elkhorn PS Upsize	2016	2017	2017	2017	2017	2017
		2	Mint Lane Trunk	2024	2024	2025	2025	2025	2025
		3	Mint Lane PS	2024	2024	2025	2025	2025	2025

Notes: If a date was not provided for a milestone, then the milestone was completed prior to the creation of this table.

¹The completion dates for these projects were revised per the EPA- and KDEP-approved modification request dated March 13, 2017.

Table 1.3
CD Quarterly Report
Fourth Quarter 2017
Recurring Manhole SSOs Abated / Relocated

Date Abated/ Relocated	CD SSO #	SSO Manhole ID #	Manhole Address	Sewershed	Abated or Relocated	Reason for SSO Abatement / Relocation	New SSO Manhole ID #	Final RMP Project to Enable Abatement
3rd Quarter 2013 Manhole Recurring SSOs Abated / Relocated								
8/13/2013	25	TB5 43	410 Rose Lane	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
8/13/2013	26	TB5 46A	457 Woodland	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
8/13/2013	27	TB5 326	146 McDowell Road	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
8/13/2013	28	TB5 344	1004 Slashes Road	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
8/13/2013	49	WH4 54	Zandale Drive	West Hickman	Abated	Zandale Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	50	WH4 32	Zandale Drive	West Hickman	Abated	Zandale Trunk Project / 1 Overflow Reported in 2Q10	N/A	N/A
8/13/2013	51	WH4 65B	Zandale Drive	West Hickman	Abated	Zandale Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	58	WH3 500	Centre Pkwy	West Hickman	Abated	PM Issue / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	73	NE1 90	Hisle Way	North Elkhorn	Abated	Dixie Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	74	NE1 199	Dartmoor Drive	North Elkhorn	Abated	Rehab Project on Dartmoor / Last Reported Overflow 2Q10	N/A	N/A
8/13/2013	75	NE1 84	Chatsworth Drive	North Elkhorn	Abated	Dixie Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	76	NE1 83	Chatsworth Drive	North Elkhorn	Abated	Dixie Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	77	NE1 25	Gayle Drive	North Elkhorn	Abated	Dixie Trunk Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	78	CR6 130A	Seventh & Jackson	Cane Run	Abated	Collection System Rehab / 0 Overflows in 11 yrs	N/A	N/A
8/13/2013	79	CR6 132A	Shelby Street	Cane Run	Abated	Manhole Removed From System	N/A	N/A
8/13/2013	80	CR5 201	Edgelawn Avenue	Cane Run	Abated	2001 Sewer Project / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	81	CR4 175	Pierson Drive	Cane Run	Abated	On PM list / Last Reported Overflow 2Q10	N/A	N/A
8/13/2013	83	CR2 161	Pennebaker Drive	Cane Run	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	94	WH10 400	Nicholasville Road	West Hickman	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	96	WR3 103A	Poppy Road	Wolf Run	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	97	NE2 154	Jingle Bell (1454)	North Elkhorn	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	100	TB3 486	Nelson Avenue	Town Branch	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	101	TB5 15	Park Avenue	Town Branch	Abated	Non-Recurring SSO / 1 Reported Overflow 2Q08	N/A	N/A
8/13/2013	102	CR7 134	Stanton Way (1950)	Cane Run	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	103	CR7 125	Newtown Pike	Cane Run	Abated	On PM list / 0 Overflows Reported in 11 yrs	N/A	N/A
8/13/2013	104	CR5 25	Deepwood Drive	Cane Run	Abated	On PM list / Last Reported Overflow 2Q10	N/A	N/A
8/13/2013	105	CR3 18C	Loudon Avenue (115)	Cane Run	Abated	On PM List / 1 Reported Overflow 4Q12	N/A	N/A
8/13/2013	110	TB5 17	443 Oldham Avenue	Town Branch	Abated	Identified as Relief Sewer to Euclid Avenue	N/A	N/A
8/13/2013	111	TB2 33	648 S Broadway	Town Branch	Abated	Cross Connection Has Been Removed	N/A	N/A
4th Quarter 2013 Manhole Recurring SSOs Abated / Relocated								
no changes								
1st Quarter 2014 Manhole Recurring SSOs Abated / Relocated								
no changes								
2nd Quarter 2014 Manhole Recurring SSOs Abated / Relocated								
no changes								
3rd Quarter 2014 Manhole Recurring SSOs Abated / Relocated								
8/15/2014	108	CR3 51	772 N Broadway	Cane Run	Abated	Plugged 1/30/2014	N/A	N/A
9/30/2014	109	TB5 14	441 Park Avenue	Town Branch	Abated	Determined To Not Be a Cross Connection	N/A	N/A
4th Quarter 2014 Manhole Recurring SSOs Abated / Relocated								
no changes								
1st Quarter 2015 Manhole Recurring SSOs Abated / Relocated								
no changes								

Table 1.3
CD Quarterly Report
Fourth Quarter 2017
Recurring Manhole SSOs Abated / Relocated

Date Abated/ Relocated	CD SSO #	SSO Manhole ID #	Manhole Address	Sewershed	Abated or Relocated	Reason for SSO Abatement / Relocation	New SSO Manhole ID #	Final RMP Project to Enable Abatement
2nd Quarter 2015 Manhole Recurring SSOs Abated / Relocated								
11/6/2014	106	EH3_90	1165 Mt Rushmore Way	East Hickman	Relocated	Century Hills Trunk Project (EH-12)	EH3-1030	EH WWS Tank (EH-3)
11/10/2014	62	WR4_10	586 Bob-O-Link Road	Wolf Run	Abated	Bob-O-Link Trunk Project (WR-10)	N/A	N/A
11/10/2014	63	WR4_9	586 Bob-O-Link Road	Wolf Run	Abated	Bob-O-Link Trunk Project (WR-10)	N/A	N/A
11/10/2014	64	WR4_25	380 Bob-O-Link Road	Wolf Run	Abated	Bob-O-Link Trunk Project (WR-10)	N/A	N/A
3rd Quarter 2015 Manhole Recurring SSOs Abated / Relocated								
no changes								
4th Quarter 2015 Manhole Recurring SSOs Abated / Relocated								
12/19/2014	10	WH7_280	204 St Ann Drive	West Hickman	Relocated	Idle Hour Trunk Project (WH-13)	WH7_931	WH7 WWS Tank (WH-1)
12/19/2014	11	WH7_294	209 St Ann Drive	West Hickman	Relocated	Idle Hour Trunk Project (WH-13)	WH7_941	WH7 WWS Tank (WH-1)
12/19/2014	12	WH7_295A	209 St Ann Drive	West Hickman	Relocated	Idle Hour Trunk Project (WH-13)	WH7_958	WH7 WWS Tank (WH-1)
9/30/2015	5	WH7_97E	2401 Richmond Road	West Hickman	Abated	Woodhill Trunk Project (WH-16)	N/A	N/A
12/19/2015	3	WH7_98	2399 Richmond Road	West Hickman	Relocated	Woodhill Trunk Project (WH-16)	WH7_982	WH7 WWS Tank (WH-1)
12/19/2015	4	WH7_97G	2399 Richmond Road	West Hickman	Relocated	Woodhill Trunk Project (WH-16)	WH7_982	WH7 WWS Tank (WH-1)
12/19/2015	6	WH7_103	2350 Woodhill Shopping	West Hickman	Relocated	Woodhill Trunk Project (WH-16)	WH7_991	WH7 WWS Tank (WH-1)
12/19/2015	7	WH7_35A	2300 Richmond Road	West Hickman	Relocated	Woodhill Trunk Project (WH-16)	WH7_982	WH7 WWS Tank (WH-1)
12/19/2015	8	WH7_36	2300 Richmond Road	West Hickman	Relocated	Woodhill Trunk Project (WH-16)	WH7_982	WH7 WWS Tank (WH-1)
1st Quarter 2016 Manhole Recurring SSOs Abated / Relocated								
3/31/2016	30	Basement	245 Radcliffe Road	Cane Run	Abated	Backtrap Valve Installed in 2000	N/A	N/A
3/31/2016	31	Basement	209 Radcliffe Road	Cane Run	Abated	Former Maintenance Issue	N/A	N/A
3/31/2016	32	Basement	236 Chenault Road	Town Branch	Abated	Backtrap Valve Installed in 2003 to Address Surface Water Flooding	N/A	N/A
2nd Quarter 2016 Manhole Recurring SSOs Abated / Relocated								
no changes								
3rd Quarter 2016 Manhole Recurring SSOs Abated / Relocated								
no changes								
4th Quarter 2016 Manhole Recurring SSOs Abated / Relocated								
no changes								
1st Quarter 2017 Manhole Recurring SSOs Abated / Relocated								
no changes								
2nd Quarter 2017 Manhole Recurring SSOs Abated / Relocated								
6/30/2017	99	TB1_155	Manchester Avenue	Town Branch	Abated	UK Trunk A Project (TB-4)	N/A	N/A
3rd Quarter 2017 Manhole Recurring SSOs Abated / Relocated								
no changes								
4th Quarter 2017 Manhole Recurring SSOs Abated / Relocated								
no changes								

Table 1.4
CD Quarterly Report
Fourth Quarter 2017
Recurring Pump Station SSOs Abated

Date Abated	CD SSO #	Pump Station Name	Pump Station Address	Sewershed	Reason for Recurring SSO Abatement
3rd Quarter 2013 Pump Station Recurring SSO Abatement					
8/13/2013	1	South Elkhorn	2500 Bowman Mill Road	South Elkhorn	Capital Project Constructed New Pump Station
8/13/2013	2	North Elkhorn	2201 Elkhorn Road	North Elkhorn	Capital Project Constructed New Pump Station
8/13/2013	16	Deep Springs	469 Anniston Drive	North Elkhorn	Capital Project Constructed New Pump Station
8/13/2013	17	Dixie	1459 Huntsville Drive	North Elkhorn	Capital Project Constructed New Pump Station
8/13/2013	92	Bluegrass Field	1031 Air Freight Drive	South Elkhorn	Capital Project Constructed New Pump Station
4th Quarter 2013 Pump Station Recurring SSO Abatement					
no changes					
1st Quarter 2014 Pump Station Recurring SSO Abatement					
no changes					
2nd Quarter 2014 Pump Station Recurring SSO Abatement					
no changes					
3rd Quarter 2014 Pump Station Recurring SSO Abatement					
8/15/2014	88	Greenbrier #1	3770 Katkay Drive	North Elkhorn	Decommissioned
4th Quarter 2014 Pump Station Recurring SSO Abatement					
10/3/2014	18	Wolf Run	755 Enterprise Dr	Wolf Run	Capital Project Constructed New Pump Station
10/3/2014	24	Man-O-War	2079 Bryant Rd	North Elkhorn	Decommissioned
10/3/2014	91	Hamburg Farm	1936 Pavillion Way	North Elkhorn	Rehabilitated
1st Quarter 2015 Pump Station Recurring SSO Abatement					
no changes					
2nd Quarter 2015 Pump Station Recurring SSO Abatement					
no changes					
3rd Quarter 2015 Pump Station Recurring SSO Abatement					
no changes					
4th Quarter 2015 Pump Station Recurring SSO Abatement					
no changes					
1st Quarter 2016 Pump Station Recurring SSO Abatement					
no changes					
2nd Quarter 2016 Pump Station Recurring SSO Abatement					
no changes					
3rd Quarter 2016 Pump Station Recurring SSO Abatement					
no changes					
4th Quarter 2016 Pump Station Recurring SSO Abatement					
no changes					
1st Quarter 2017 Pump Station Recurring SSO Abatement					
no changes					
2nd Quarter 2017 Pump Station Recurring SSO Abatement					
no changes					
3rd Quarter 2017 Pump Station Recurring SSO Abatement					
no changes					
4th Quarter 2017 Pump Station Recurring SSO Abatement					
2/20/2017	84	Lower Cane Run	Coldstream Station	Cane Run	Lower Cane Run WWS Tank (CR-1)

The following two tables provide information on projects and activities conducted during the last calendar quarter related to the storm sewer system. Table 1.5 highlights various Stormwater Quality Management Program (SWQMP) activities and Table 1.6 shows the Performance Standards with deadlines during the previous quarter.

Table 1.5
CD Quarterly Report
Fourth Quarter 2017
Stormwater Quality Management Program

1.	Performance Standards – see Table 1.6 highlighting the status of the Performance Standards with monthly and twice annually deadlines.
2.	Stormwater Quality Management Program – LFUCG continued implementing its <u>Stormwater Quality Management Program</u> , dated June 1, 2016.
3.	Water Quality Management Fee Implementation – Ongoing Stormwater Quality Projects Incentive Grant Program grants continued as scheduled and some were completed. Grant award agreements were forwarded to the Urban County Council (UCC) for award as they were executed. The Water Quality Fees Board met on October 12, 2017. The Board selected FY 2018 Class B Infrastructure grant recipients.
4.	<p>Public Education and Outreach –</p> <ul style="list-style-type: none"> • Department of Environmental Quality and Public Works (EQPW) staff hosted displays about stormwater and/or water quality issues, such as pet waste, at ‘Yappy’ Hour at Pivot Brewing on October 5th and at Science Night at Julius Marks Elementary on October 12th. • The Southland stormwater project was included as a segment on A Greener Bluegrass in October. A local news station, WKYT, aired a story on litter in Lexington on November 14th and included interviews with EQPW staff. • An e-newsletter was published on December 28th that highlighted the 2017 MS4 Success Stories. • The database of people wanting to receive information from LFUCG’s Division of Water Quality continued to be updated. • The website continued to be updated. • Division of Water Quality (DWQ) staff met with representatives of Lexington’s Sister City from County Kildare, Ireland, to discuss water-related issues on October 26th.

	<p>Public Education and Outreach (cont'd) –</p> <ul style="list-style-type: none"> • A consultant was selected to conduct a community survey of Lexington’s knowledge and attitudes about stormwater and water quality. • Annual SWQMP training for the UCC’s Environmental Quality and Public Works Committee was held on November 14th.
5.	<p>Public Involvement and Participation –</p> <ul style="list-style-type: none"> • LexCall staff received annual training on DWQ’s LexCall codes on November 29th. • DWQ staff attended the Kentucky River Basin Team Meeting on October 5th and hosted a roundtable discussion on Urban Watersheds at the Kentucky River Watershed Conference on November 11th. The second West Hickman Watershed Council meeting co-hosted by LFUCG was held on November 14th. DWQ staff participated in a discussion about reducing or limiting the use of phosphorus in lawn fertilization with University of Kentucky researchers and progressive landscaping companies on December 14th in Frankfort. • DWQ hosted a reception on October 27th to review results from its Watershed-Focused Monitoring Program with volunteers who had participated in sample collection over the past year. Lexington hosted a Paper Shred event on November 4th. • Storm drain stenciling continued. • The Stormwater Stakeholder Advisory Committee met on December 1st.
6.	<p>Illicit Discharge Detection and Elimination – During the fourth quarter of 2017, 32 IDDE investigations were completed and 11 investigations were initiated or are ongoing and in monitoring status. Three responsible parties received NOVs. LFUCG sent 65 letters during the quarter to property owners and IDDE responsible parties regarding stormwater pollution education with pertinent ordinance and cleanup information. Dry Weather Screening was completed for 2017. IDDE training for staff was held on December 20th.</p> <p>During sanitary sewer repair work on Lancaster Avenue, LFUCG discovered a home with its plumbing connected to the storm sewer system. The illicit connection was terminated on October 19th, once the service connection, cleanout, and lateral were installed and inspected by a state plumbing inspector.</p>

7.	Construction Site Stormwater Runoff Control – Monthly inspections of active construction sites and twice-monthly inspections of targeted construction sites continued. Annual training for staff who conduct construction sites inspections was held during the month of October. The annual workshop with the construction industry was held on December 15th.
8.	Post-Construction Stormwater Management in New Development and Redevelopment – Inspections of detention basins, retention ponds, stormwater control devices, and critical culverts continued. 42 water quality BMPs at eight sites were added to the inventory during the fourth quarter.
9.	<p>Pollution Prevention for Municipal Operations – LFUCG’s Suntree units, Stormceptors, and other stormwater quality control BMPs were inspected and maintained, as needed. LFUCG continued a quarterly highlight of a Greenworks Guide on its intranet during the fourth quarter. Annual stormwater pollution prevention training was completed for appropriate staff. Annual stormwater compliance inspections of municipal facilities were completed, and annual municipal waste facility wet weather monitoring was completed during the fourth quarter.</p> <p>Contractors removed over 42 tons of litter and debris from streams, drainageways, and public rights-of-way at 58 locations during the fourth quarter.</p>
10.	Industrial Facility Stormwater Pollution Prevention – Eight facilities were inspected during the fourth quarter. Industrial Facility Stormwater Pollution Prevention training for staff was held on December 20th.
11.	Water Quality Monitoring – Monitoring this quarter included quarterly dry and wet weather stream sampling. The Watershed-Focused Monitoring Program’s Phase 1 Screening for the South Elkhorn watershed continued during the fourth quarter. Water Quality Monitoring training for staff was held on December 20th.
12.	Reporting and Recordkeeping – Ongoing recordkeeping continued.
13.	TMDLs and Impaired Waters – Work continued to develop a list of appropriate BMPs for potential implementation.

Table 1.6
CD Quarterly Report
Fourth Quarter 2017
Status of Consent Decree MS4 Performance Standards as of 12/31/17

MS4 Performance Standard		Completion Schedule	Status	Comparison of Actual Performance to Performance Standard
CS-6	Commencing with the first full calendar month after entry of the Consent Decree, conduct monthly inspections of at least 90% of active construction sites with reasonable potential to discharge to the MS4.	First Full Calendar Month After CD Effective Date	Completed, but will reoccur monthly.	LFUCG met the 90% requirement each month of the fourth quarter of 2017 (99.6% for October, 99.8% for November, and 99.6% for December).
PPRC-14	Commencing with the first full calendar month after entry of the Consent Decree, ensure the inspection of at least 90% of the publicly- and privately-owned detention basins with reasonable potential to discharge pollutants to the MS4 at least two times a year.	First Full Calendar Month After CD Effective Date	Completed, but will reoccur twice yearly.	LFUCG met the 90% requirement for the first and second rounds of inspections in 2017. As of May 17, 2017, the first round was completed with 100% of the 1,205 detention basins on the inventory having been inspected. As of November 30, 2017, the second round was completed with 100% of the 1,194 detention basins on the inventory having been inspected.
PPRC-15	Commencing with the first full calendar month after entry of the Consent Decree, ensure the inspection of at least 90% of the publicly- and privately-owned retention ponds with reasonable potential to discharge pollutants to the MS4 at least once a month.	First Full Calendar Month After CD Effective Date	Completed, but will reoccur monthly.	LFUCG met the 90% requirement each month of the fourth quarter of 2017 (100% for all three months). As of December 31, 2017, there were 97 retention ponds on the inventory.
PPRC-16	Commencing with the first full calendar month after entry of the Consent Decree, ensure the inspection of at least 90% of the culverts in Appendix LL of the SWQMP for clogging and excessive buildup of sediment at least once a month and within three days of a rainfall of 1 inch or more in a calendar day.	First Full Calendar Month After CD Effective Date	Completed, but will reoccur monthly.	LFUCG met the 90% requirement for the monthly inspections for the fourth quarter of 2017 (100% for all three months). Additionally, there were two rain events during this quarter with greater than 1" of rainfall in a calendar day (10/8 and 12/23). LFUCG completed a round of inspections within three working days of each event, inspecting 100% of the locations for the 10/8 event and 97.7% of the locations for the 12/23 event. The critical culvert inventory has 44 locations as of December 31, 2017.

Table 1.7 provides information on progress completed during the last calendar quarter related to the implementation of the Supplemental and Commonwealth Environmental Projects required by the Consent Decree.

Table 1.7
CD Quarterly Report
Fourth Quarter 2017
Supplemental and Commonwealth Environmental Projects

J-1	<p>Coldstream Park Stream Corridor Restoration and Preservation SEP – Grading and earthwork of the stream channel and Wetland #3 were completed during the fourth quarter and those areas were stabilized. The U.S. Army Corps of Engineers and KDOW conducted a joint inspection of the project site on December 18, 2017, and determined that the project was compliant with Nationwide Permit No. 27 and its Water Quality Certification (WQC#2016-082-1). LFUCG provided a construction status update to KDOW on December 28, 2017, in lieu of an annual monitoring report.</p>
J-2	<p>Green Infrastructure SEP – Complete. LFUCG submitted the SEP Completion Report to the EPA and Kentucky EEC on June 29, 2012.</p>
K-1	<p>Blue Sky Package Treatment Plant Elimination Project – Complete.</p>
K-2	<p>Flooding Evaluation Project –</p> <p>The demolition of 1653 Gayle Drive was completed, which completed the Ft. Sumter / Gayle Drive Priority project.</p> <p>The construction contract for the Wilson Downing Tributary project was awarded to The Allen Company for \$951,165.00. Work will include the closure of Wilson Downing Road, so construction phasing will be timed so that the roadway will not close until after the school year ends, since there are two public schools nearby. This project is being coordinated with RMP Project WH-5 Lansdowne South Trunk.</p> <p>Investigation and design continued on the Southland stormwater project during the fourth quarter. The hydrologic and hydraulic (H&H) modeling is substantially complete and design concepts are being developed.</p> <p>Analysis and investigation of the next two projects on the priority list started during the fourth quarter. These projects are Peachtree (#71.5) and Woodhill (#72).</p>

Section II
CD Quarterly Report
Fourth Quarter 2017
January 29, 2018

CD Language:

X. REPORTING REQUIREMENTS AND APPROVAL OF SUBMITTALS

29. Reports.

A. Quarterly Reports.

(ii) The date, locations, estimated volume, and cause (if known) of all SSOs for the most recently completed quarter; a cumulative accounting of the estimated reduction in volume and in number of occurrences of SSOs and Unpermitted Bypasses.

LFUCG's Response:

The attached tables provide information related to SSOs and Unpermitted Bypasses during the most recently completed calendar quarter. The following is a list of the tables included:

- Table 2.1: 4th Quarter 2017 SSO Overview
- Table 2.2: 4th Quarter 2017 Manhole Overflows sorted chronologically
- Table 2.3: 4th Quarter 2017 Manhole Overflows sorted by cause
- Table 2.4: 4th Quarter 2017 vs. 4th Quarter 2016 and 3rd Quarter 2017 (provides a listing of individual overflow locations and lists the number of overflows for each specific location and cause for each quarter)
- Table 2.5: 4th Quarter 2017 Pump Station Overflows and Bypasses sorted chronologically
- Table 2.6: 4th Quarter 2017 vs. 4th Quarter 2016 and 3rd Quarter 2017 (provides a listing of individual overflow/bypass locations and lists the number of overflows for each specific location and cause for each quarter)
- Table 2.7: 4th Quarter 2017 WWTP Unpermitted Bypasses
- Table 2.8: Calendar Year 2017 SSO Overview

Table 2.1
CD Quarterly Report
Fourth Quarter 2017
SSO Overview

4th Quarter 2017 SSO Report Comparative Overview						
Source	Number of Overflows 4th QTR 2017	Number of Overflows 4th QTR 2016	Number of Overflows 3rd QTR 2017	Total Estimated Overflow Volume (gallons) 4th QTR 2017	Total Estimated Overflow Volume (gallons) 4th QTR 2016	Total Estimated Overflow Volume (gallons) 3rd QTR 2017
Manhole Overflows [^]	33	47	12	2,147,951	1,108,925	72,254
Pump Station Overflows and/or Bypasses	14	14	10	4,742,742	5,409,814	1,406,346
WWTP Unpermitted Bypasses	1	0	0	60,000	0	0
Cumulative Totals	48	61	22	6,950,693	6,518,739	1,478,600

[^]Includes 2 Basement Backups in 4Q17, 2 Basement Backups in 4Q16, and 2 Basement Backups in 3Q17.

Quarterly Liquid Precipitation (in inches)				
Quarter	October	November	December	Total Cumulative
4th Qtr 2017	5.77	2.35	2.36	10.48
4th Qtr 2016	0.83	1.34	7.11	9.28
	July	August	September	Total Cumulative
3rd Qtr 2017	5.32	5.07	3.74	14.13
Note: Quarterly Liquid Precipitation readings were acquired from the University of Kentucky Agricultural Weather Center at the following website http://www.wagwx.ca.uky.edu/cgi-bin/ky_clim_data_www.pl				

Quarterly Significant Precipitation Events	
Date	Inches in 24-hour Period
10/8/2017	3.47
12/23/2017	1.46
Note: Quarterly Significant Precipitation Events were acquired from the University of Kentucky Agricultural Weather Center at the following website: http://www.wagwx.ca.uky.edu/cgi-bin/ky_clim_data_www.pl	

Table 2.2
CD Quarterly Report
Fourth Quarter 2017
Manhole Overflows

4th Quarter 2017 Sanitary Sewer Overflows (Manholes)								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
10/7/2017	NE1_182	1019 Industry Rd	North Elkhorn	Grease	375	-	-	-
10/8/2017	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	28,500	Appendix A	38	WH-11
10/8/2017	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	73,750	#	-	WH-1
10/8/2017	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	73,750	#	-	WH-1
10/8/2017	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	147,500	#	-	WH-1
10/8/2017	WH3_658	**3422 Greentree Rd	West Hickman	Sustained Rain Event	68,250	Appendix A	52	WH-12
10/8/2017	CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	59,500	Appendix A	82	CR-14
10/8/2017	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	60,000	Table A-1a	10	WH-11
10/8/2017	TB3_501A	628 Winchester Rd	Town Branch	Debris	2,250	-	-	-
10/8/2017	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	58,750	Appendix A	71	WR-4
10/8/2017	WH3_56	**3051 Kirklevington Dr	West Hickman	Sustained Rain Event	26,750	Appendix A	54	WH-7
10/8/2017	EH3_1030	1325 Fenwick Dr	East Hickman	Sustained Rain Event	27,000	#	-	EH-11
10/8/2017	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	13,500	Table A-1a	1	EH-11
10/8/2017	WR2_102	**1835 Yorktown Road (Gardenside Park)	Wolf Run	Sustained Rain Event	30,000	Appendix A	69	WR-5
10/23/2017	OPRD_ARV1_CR4_550	2025 Old Paris Rd	Cane Run	Break	600	-	-	-
10/28/2017	Basement	3500 Greenlawn Dr	West Hickman	Grease	1,917	-	-	-
10/29/2017	CR2_181	1872 Costigan Drive	Cane Run	Debris	550	-	-	-
11/5/2017	Basement	1025 Lakefront Dr	West Hickman	Debris	959	-	-	-
11/22/2017	EH3_131	3116 High Ridge Dr	East Hickman	Roots	775	-	-	-
12/14/2017	WR1_170A	1728 Hill Rise Dr, 412	Wolf Run	Debris	350	-	-	-
12/20/2017	WH2_502E	3716 Trent Cir, Ofc	West Hickman	Debris	300	-	-	-
12/23/2017	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	99,500	#	-	WH-1
12/23/2017	WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	122,250	Table A-1a	4	WH-10
12/23/2017	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	224,125	Appendix A	52	WH-12
12/23/2017	WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	203,750	Table A-1a	13	WH-12
12/23/2017	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	149,250	#	-	WH-1
12/23/2017	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	149,250	#	-	WH-1
12/23/2017	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	170,000	Table A-1a	10	WH-11
12/23/2017	WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	68,000	Table A-1a	9	WH-11
12/23/2017	WH6_98	**3544 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	102,000	Appendix A	37	WH-11
12/23/2017	WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	56,000	Appendix A	41	WH-11
12/23/2017	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	126,000	Appendix A	38	WH-11

Table 2.2
CD Quarterly Report
Fourth Quarter 2017
Manhole Overflows

4th Quarter 2017 Sanitary Sewer Overflows (Manholes)								
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A or Revised Table A-1a*		RMP Project
12/23/2017	WH3_739	3444 Dixiana Dr	West Hickman	Grease	2,500	-	-	-
		Total Overflows	33		Total Estimated Overflow Volume	2,147,951		

* Appendix A refers to Appendix A of the Consent Decree which lists the locations of recurring SSOs and unpermitted discharges. Revised Table A-1a refers to a list of additional known SSOs which were not included in Appendix A of the Consent Decree, but that will be addressed by the RMP projects.

Relocated SSO manhole which will be abated by the RMP project listed.

** Address for manhole was changed to match previously reported address.

Table 2.3
CD Quarterly Report
Fourth Quarter 2017
Manhole Overflows - Sorted by Cause

4th Quarter 2017 Sanitary Sewer Overflows (Manholes)					
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
Break					
10/23/2017	OPRD_ARV1_CR4_550	2025 Old Paris Rd	Cane Run	Break	600
		Total Overflows	1	Total Estimated Overflow Volume	600
Debris In Line / Blockage					
10/8/2017	TB3_501A	628 Winchester Rd	Town Branch	Debris	2,250
10/29/2017	CR2_181	1872 Costigan Drive	Cane Run	Debris	550
11/5/2017	Basement	1025 Lakefront Dr	West Hickman	Debris	959
12/14/2017	WR1_170A	1728 Hill Rise Dr, 412	Wolf Run	Debris	350
12/20/2017	WH2_502E	3716 Trent Cir, Ofc	West Hickman	Debris	300
		Total Overflows	5	Total Estimated Overflow Volume	4,409
Grease					
10/7/2017	NE1_182	1019 Industry Rd	North Elkhorn	Grease	375
10/28/2017	Basement	3500 Greenlawn Dr	West Hickman	Grease	1,917
12/23/2017	WH3_739	3444 Dixiana Dr	West Hickman	Grease	2,500
		Total Overflows	3	Total Estimated Overflow Volume	4,792
Roots					
11/22/2017	EH3_131	3116 High Ridge Dr	East Hickman	Roots	775
		Total Overflows	1	Total Estimated Overflow Volume	775
Sustained Rain Event					
10/8/2017	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	28,500
10/8/2017	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	73,750
10/8/2017	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	73,750
10/8/2017	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	147,500
10/8/2017	WH3_658	**3422 Greentree Rd	West Hickman	Sustained Rain Event	68,250
10/8/2017	CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	59,500
10/8/2017	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	60,000
10/8/2017	WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	58,750
10/8/2017	WH3_56	**3051 Kirklevington Dr	West Hickman	Sustained Rain Event	26,750

Table 2.3
CD Quarterly Report
Fourth Quarter 2017
Manhole Overflows - Sorted by Cause

4th Quarter 2017 Sanitary Sewer Overflows (Manholes)					
Date	MH ID #	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)
10/8/2017	EH3_1030	1325 Fenwick Dr	East Hickman	Sustained Rain Event	27,000
10/8/2017	EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	13,500
10/8/2017	WR2_102	**1835 Yorktown Road (Gardenside Park)	Wolf Run	Sustained Rain Event	30,000
12/23/2017	WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	99,500
12/23/2017	WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	122,250
12/23/2017	WH3_658	3422 Greentree Rd	West Hickman	Sustained Rain Event	224,125
12/23/2017	WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	203,750
12/23/2017	WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	149,250
12/23/2017	WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	149,250
12/23/2017	WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	170,000
12/23/2017	WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	68,000
12/23/2017	WH6_98	**3544 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	102,000
12/23/2017	WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	56,000
12/23/2017	WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	126,000
		Total Overflows	23	Total Estimated Overflow Volume	2,137,375
		All Causes Overflows	33	All Causes Total Estimated Overflow Volume	2,147,951

** Address for manhole was changed to match previously reported address.

Table 2.4
CD Quarterly Report
Fourth Quarter 2017
 vs.
Fourth Quarter 2016 and Third Quarter 2017

4th Quarter 2017 vs. 4th Quarter 2016 and 3rd Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 4th QTR 2017	Number of Overflows 4th QTR 2016	Number of Overflows 3rd QTR 2017
Basement	1199 Mt Rushmore Way	East Hickman	Break			1
Basement	3401 Freeland Dr	West Hickman	Roots			1
Basement	2504 Larkin Rd	West Hickman	Blockage		1	
Basement	680 E Loudon Av	Cane Run	Roots		1	
Basement	1025 Lakefront Dr	West Hickman	Debris	1		
Basement	3500 Greenlawn Dr	West Hickman	Grease	1		
CR1_25	500 Hollow Creek Rd	Cane Run	Grease		1	
CR2_181	1872 Costigan Drive	Cane Run	Debris	1		
CR3_96	406 E Loudon Ave	Cane Run	Grease		1	
CR4_138	551 Parkside Dr	Cane Run	Grease		1	
CR4_15	1502 Russell Cave Rd	Cane Run	Sustained Rain Event	1	2	1
CR4_5044	551 Parkside Dr	Cane Run	Grease		1	
CR7_1075	749 Newtown Springs Dr	Cane Run	Grease		1	
EH3_1030	1325 Fenwick Rd	East Hickman	Sustained Rain Event	1	2	
EH3_131	3116 High Ridge Dr	East Hickman	Roots	1		
EH3_377	3297 Featherston Dr	East Hickman	Sustained Rain Event	1	1	
NE1_118	708 Dartmoor Ct	North Elkhorn	Debris			1
NE1_132	1143 Floyd Dr	North Elkhorn	Roots			1
NE1_132	1147 Floyd Dr	North Elkhorn	Debris		1	
NE1_132	1147 Floyd Dr	North Elkhorn	Sustained Rain Event		2	
NE1_173	1160 Industry Rd	North Elkhorn	Grease		1	
NE1_181C	1055 Industry Rd	North Elkhorn	Debris			1
NE1_182	1019 Industry Rd	North Elkhorn	Grease	1		
OPRD_ARV1_CR4_550	2025 Old Paris Rd	Cane Run	Break	1		
TB1_150B	1004 Jane St	Town Branch	Debris			1
TB2_186A	451 Chair Ave	Town Branch	Break		1	
TB3_115A	350 N Limestone	Town Branch	Debris		1	
TB3_226A	** - Short/MLK	Town Branch	Roots		1	
TB3_501A	628 Winchester Rd	Town Branch	Debris	1		
TB3_711	4 Preston Ct	Town Branch	Roots		1	
TB6_8A	613 Laco Dr	Town Branch	Roots/Debris		2	
TB6_9	160 Opportunity Way	Town Branch	Roots		1	
TB7_605	524 Green Valley Dr	Town Branch	Roots			1

Table 2.4
CD Quarterly Report
Fourth Quarter 2017
 vs.
Fourth Quarter 2016 and Third Quarter 2017

4th Quarter 2017 vs. 4th Quarter 2016 and 3rd Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 4th QTR 2017	Number of Overflows 4th QTR 2016	Number of Overflows 3rd QTR 2017
WH2_418	3661 Niles Ct	West Hickman	Sustained Rain Event		1	
WH2_419Z	3665 Niles Ct	West Hickman	Sustained Rain Event		1	
WH2_481A	1324 Oxhill Dr	West Hickman	Sustained Rain Event		1	
WH2_483	1349 Dale Dr	West Hickman	Grease		1	
WH2_502E	3716 Trent Cir, Ofc	West Hickman	Debris	1		
WH3_15E	421 Redding Rd	West Hickman	Roots		1	
WH3_199	800 Malabu Dr	West Hickman	Grease			1
WH3_202A	420 Redding Rd	West Hickman	Debris			1
WH3_354	3498 Greentree Rd	West Hickman	Sustained Rain Event	1		
WH3_56	**3051 Kirklevington Dr	West Hickman	Sustained Rain Event	1	2	
WH3_658	**3422 Greentree Rd	West Hickman	Sustained Rain Event	2	2	
WH3_658A	3431 Sutherland Dr	West Hickman	Sustained Rain Event	1		
WH3_739	3444 Dixiana Dr	West Hickman	Grease	1		
WH4_24A	802 Sherwood Dr	West Hickman	Roots		1	
WH5_45	3134 Montavesta Rd	West Hickman	Sustained Rain Event		1	
WH5_45A	3134 Montavesta Rd	West Hickman	Sustained Rain Event		1	
WH6_102	3641 Barrow Wood Ln	West Hickman	Sustained Rain Event		2	
WH6_104	3625 Barrow Wood Ln	West Hickman	Sustained Rain Event	1		
WH6_645	2309 The Woods Ln	West Hickman	Sustained Rain Event	2	2	
WH6_74	3538 Creekwood Dr	West Hickman	Sustained Rain Event	2	2	
WH6_75	**3540 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	1		
WH6_98	**3544 Creekwood Dr (Chinoe Creek Apts)	West Hickman	Sustained Rain Event	1	1	
WH7_37	2300 Richmond Rd	West Hickman	Sustained Rain Event	2		1
WH7_982	2401 Richmond Rd	West Hickman	Sustained Rain Event	2	1	
WH7_983	2401 Richmond Rd	West Hickman	Sustained Rain Event	2	1	
WR1_170A	1728 Hill Rise Dr, 412	Wolf Run	Debris	1		
WR1_39	1957 Dunkirk Dr	Wolf Run	Grease		1	
WR1_436	761 Enterprise Dr	Wolf Run	Debris		1	
WR2_102	**1835 Yorktown Road (Gardenside Park)	Wolf Run	Sustained Rain Event	1		
WR2_150	1324 Bordeaux Dr	Wolf Run	Debris			1
WR2_163	2401 Cognac Ter	Wolf Run	Roots		1	
WR2_488	**1616 Maywick View Ln (Wolf Run Park)	Wolf Run	Sustained Rain Event	1		

*Table 2.4
 CD Quarterly Report
 Fourth Quarter 2017
 vs.
 Fourth Quarter 2016 and Third Quarter 2017*

4th Quarter 2017 vs. 4th Quarter 2016 and 3rd Quarter 2017 Sanitary Sewer Overflows (Manholes)						
MH ID #	Address	Sewershed	Cause	Number of Overflows 4th QTR 2017	Number of Overflows 4th QTR 2016	Number of Overflows 3rd QTR 2017
Total Number of Overflows Per Respective Qtr.				33	47	12
Total Estimated Vol. (gal.) of Overflows Per Respective Qtr.				2,147,951	1,108,925	72,254

** Address for manhole was changed to reflect the official address on the Wet Weather SSO Monitoring List and/or previously reported address.

Table 2.5
CD Quarterly Report
Fourth Quarter 2017
Pump Station Overflows / Bypasses

4th Quarter 2017 Sanitary Sewer Overflows / Bypasses (Pump Stations)								
Date	Bypass / Overflow	Pump Station Name	Address	Sewershed	Cause	Estimated Overflow Volume (gallons)	Appendix A*	RMP Project
10/8/2017	Overflow	Greenbrier #2	3592 Winchester Rd	North Elkhorn	Sustained Rain Event	30,110	89	NE-4
10/8/2017	Overflow	Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	29,078	90	CR-8
10/8/2017	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	518,048	13	CR-5
10/8/2017	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	1,654,904	87	EH-11
10/8/2017	Bypass	Town Branch	335 Jimmie Campbell Dr	Town Branch	Excessive Flow	3,880	107	TB-2
11/7/2017	Bypass	Keeneland	4091 Versailles Rd	Wolf Run	Mechanical Failure	240	-	-
11/8/2017	Bypass	Town Branch	335 Jimmie Campbell Dr	Town Branch	Excessive Flow	3,814	107	TB-2
11/17/2017	Bypass	Town Branch	335 Jimmie Campbell Dr	Town Branch	Excessive Flow	1,845	107	TB-2
11/18/2017	Bypass	Town Branch	335 Jimmie Campbell Dr	Town Branch	Excessive Flow	1,845	107	TB-2
12/23/2017	Overflow	Armstrong Mill	2755 Armstrong Mill Rd	East Hickman	Sustained Rain Event	21,635	23	EH-8
12/23/2017	Overflow	East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	1,900,614	87	EH-11
12/23/2017	Overflow	Greenbrier #2	3592 Winchester Rd	North Elkhorn	Sustained Rain Event	7,990	89	NE-4
12/23/2017	Overflow	Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	1,551	90	CR-8
12/23/2017	Overflow	Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	567,188	13	CR-5
Total Overflows				14	Total Estimated Overflow / Bypass Volume	4,742,742		

* Appendix A refers to Appendix A of the Consent Decree which lists the locations of recurring SSOs and unpermitted discharges.

Table 2.6
CD Quarterly Report
Fourth Quarter 2017
 vs.
Fourth Quarter 2016 and Third Quarter 2017
Pump Stations

4th Quarter 2017 Sanitary Sewer Overflows/Bypasses vs. 4th Quarter 2016 and 3rd Quarter 2017 Sanitary Sewer Overflows / Bypasses (Pump Stations)							
Pump Station Name	Address	Sewershed	Cause	Bypass / Overflow	Number of Overflows / Bypasses 4th QTR 17	Number of Overflows / Bypasses 4th QTR 16	Number of Overflows / Bypasses 3rd QTR 17
Armstrong Mill	2755 Armstrong Mill Road	East Hickman	Sustained Rain Event	Overflow	1	1	
East Lake	1326 Fenwick Rd	East Hickman	Sustained Rain Event	Overflow	2	3	1
Electronics Park	609 Bizzell Dr	Town Branch	Mechanical Failure	Bypass		1	1
Greenbrier #2	3592 Winchester Rd	North Elkhorn	Sustained Rain Event	Overflow	2	1	
Keeneland	4091 Versailles Rd.	Wolf Run	Mechanical Failure	Bypass	1		
Lower Cane Run	1760 McGrathiana Pkwy	Cane Run	Sustained Rain Event	Overflow		1	
Mint Lane	1510 Man O War	South Elkhorn	Sustained Rain Event	Overflow		2	
Sharon Village	1985 Haggard Ct	Cane Run	Sustained Rain Event	Overflow	2	2	2
South Elkhorn	2500 Bowman Mill Rd	South Elkhorn	Mechanical Failure	Bypass			1
Thoroughbred Acres	619 Parkside Dr	Cane Run	Sustained Rain Event	Overflow	2	2	1
Thoroughbred Acres	619 Parkside Dr	Cane Run	Power Failure	Bypass			1
Thoroughbred Acres	619 Parkside Dr	Cane Run	Mechanical Failure	Bypass		1	
Town Branch	335 Jimmie Campbell Dr	Town Branch	Sustained Rain Event	Overflow			1
Town Branch	335 Jimmie Campbell Dr	Town Branch	Excessive Flow	Bypass	4		
Winburn	1985 Russell Cave Rd	Cane Run	Sustained Rain Event	Overflow			1
Winburn	1985 Russell Cave Rd	Cane Run	Power Failure	Bypass			1
Total Number of Overflow(s) / Bypass(es) Per Respective Quarter					14	14	10
Total Estimated Overflow / Bypass Vol. (gal.)					4,742,742	5,409,814	1,406,346

Table 2.7
CD Quarterly Report
Fourth Quarter 2017
WWTP Unpermitted Bypasses

4th Quarter 2017 Unpermitted Bypasses WWTP				
Date	Facility Name	Address	Cause	*Estimated Overflow Volume (gallons)
10/8/2017	West Hickman WWTP	645 W Hickman Plant Rd	Sustained Rain Event	60,000
			Total Number of Unpermitted Bypasses	1
			Total Estimated Bypass Volume	60,000

* The estimated overflow volume is the summation of overflows occurring at the following locations: WH1_1031, WH1_1032, WH1_1033, and SP WH 10.

Table 2.8
CD Quarterly SSO Report
Fourth Quarter 2017
Calendar Year 2017 - Overview

Calendar Year 2017 SSO Report Comparative Overview								
Year	Number of Manhole Overflows	Number of Pump Station Overflows and/or Bypasses	Number of WWTP Unpermitted Bypasses	Annual Number of Overflows and/or Bypasses	Total Estimated Manhole Overflow Volume (gal)	Total Estimated Pump Station Overflow and/or Bypass Volume (gal)	Total Estimated WWTP Unpermitted Bypass Volume (gal)	Annual Estimated Total Overflow and/or Bypass Volume (gal)
CY 2017	201	63	3	267	20,112,102	21,046,709	180,000	41,338,811
CY 2016	141	47	1	189	4,341,236	19,490,078	2,087,055	25,918,369
CY 2015	591	123	3	717	123,084,724	130,651,763	17,757,000	271,493,487
CY 2014	302	90	1	393	40,704,022	43,003,220	1,000	83,708,242
CY 2013	334	158	0	492	27,268,131	153,998,847	0	181,266,978
CY 2012	134	62	1	197	5,010,472	12,816,344	1,000,000	18,826,816
CY 2011	625	235	0	860	138,127,303	127,179,940	0	265,307,243
CY 2010	351	118	1	470	30,077,591	200,226,544	12,240,000	242,544,135
CY 2009	271	149	2	422	14,879,855	59,626,724	531,500	75,038,079
CY 2008	404	145	1	550	63,841,270	90,096,259	11,800,000	165,737,529
Average	335	119	1	456	46,744,671	85,813,643	4,559,656	137,117,969

Annual Liquid Precipitation											
Month	CY 2017 Monthly Liquid Precipitation (in)	CY 2016 Monthly Liquid Precipitation (in)	CY 2015 Monthly Liquid Precipitation (in)	CY 2014 Monthly Liquid Precipitation (in)	CY 2013 Monthly Liquid Precipitation (in)	CY 2012 Monthly Liquid Precipitation (in)	CY 2011 Monthly Liquid Precipitation (in)	CY 2010 Monthly Liquid Precipitation (in)	CY 2009 Monthly Liquid Precipitation (in)	CY 2008 Monthly Liquid Precipitation (in)	Average Precipitation (in)
January	4.72	1.21	1.85	2.31	4.48	3.54	2.02	3.20	4.32	3.91	3.16
February	3.39	4.49	3.00	4.73	1.58	3.22	6.24	1.61	2.53	6.11	3.69
March	3.28	2.53	6.58	2.89	5.35	2.88	4.69	1.22	2.39	6.31	3.81
April	1.75	3.15	11.39	5.99	4.87	2.27	12.70	2.29	4.79	5.89	5.51
May	5.73	6.64	2.07	5.41	5.66	2.89	6.45	9.95	6.04	4.33	5.52
June	5.73	4.56	5.45	5.16	7.10	2.35	3.20	4.59	5.19	3.59	4.69
July	5.32	4.98	9.83	3.39	9.12	8.01	4.58	6.06	7.57	3.41	6.23
August	5.07	6.54	2.23	10.25	4.91	2.15	3.64	0.80	4.53	2.18	4.23
September	3.74	1.67	2.71	4.36	1.86	5.79	5.97	0.61	5.90	1.42	3.40
October	5.77	0.83	3.38	4.73	4.99	1.32	4.41	1.24	5.77	1.53	3.40
November	2.35	1.34	2.76	2.44	3.20	1.76	7.68	4.44	0.98	2.53	2.95
December	2.36	7.11	7.68	3.07	5.58	6.30	4.43	2.42	4.03	6.03	4.90
Total Cumulative	49.21	45.05	58.93	54.73	58.70	42.48	66.01	38.43	54.04	47.24	51.48

Note: Annual Liquid Precipitation readings were acquired from the University of Kentucky Agricultural Weather Center at the following website: http://www.wagwx.ca.uky.edu/cgi-bin/ky_clim_data_www.pl

Section III
CD Quarterly Report
Fourth Quarter 2017
January 29, 2018

CD Language:

X. REPORTING REQUIREMENTS AND APPROVAL OF SUBMITTALS

29. Reports.

A. Quarterly Reports.

(iii) The anticipated projects and activities that will be performed in the next quarter to comply with the requirements of this Consent Decree, in Gantt chart or similar format.

LFUCG's Response:

The following table provides information on projects and activities anticipated in the next calendar quarter related to the sanitary sewer system. Table 3.1 highlights activities related to the Remedial Measures Plans and the Capacity, Management, Operation and Maintenance Programs.

**Table 3.1
CD Quarterly Report
Fourth Quarter 2017**

Consent Decree Section Number	Task	Work Anticipated to be Completed – First Quarter (January 1, 2018 – March 31, 2018)	
Sanitary Sewer System and WWTP Remedial Measures Plan (RMP)			
VII(15)(G)	Group 1 – Sanitary Sewer System and WWTP RMP (EH, WH, WR)	The EPA and KDEP issued a full approval of the RMPs, including Implementation Schedule dated February 12, 2016, on March 18, 2016.	
	Group 2 – Sanitary Sewer System and WWTP RMP (TB, CR)		
	Group 3 – Sanitary Sewer System and WWTP RMP (NE, SE)		
VII(15)(G)(viii)	Sanitary Sewer System and WWTP RMP Implementation – Project Status	<p>The following projects are anticipated to be in the design phase during the first quarter of 2018:</p> <ul style="list-style-type: none"> • CR-11 Cane Run Trunk • TB-6 UK Trunk C • TB-7 UK Trunk D • TB-10 Midland Avenue Trunk, Phase 1 (TBC) • TB-11 WWTP-7 Gravity Thickeners • WH-5 Lansdowne South Trunk • WH-6 West Hickman Main Trunk D • WH-21 WWTP-13 Waste Sludge Holding • WH-21 WWTP-17 Scum Facility • WR-2 Wolf Run Main Trunk B • WR-3 Wolf Run Main Trunk C 	<p>The following projects are anticipated to be under construction during the first quarter of 2018:</p> <ul style="list-style-type: none"> • CR-2 Expansion Area 3 Pump Station • CR-3 Expansion Area 3 Force Main • CR-4 Expansion Area 3 Trunk • CR-5 Shandon Park Trunks • CR-6 Winburn Trunk • CR-7 Thoroughbred Acres Trunk • EH-2 East Hickman Pump Station • EH-3 East Hickman Wet Weather Storage Tank • EH-11 Eliminate East Lake Pump Station • TB-11 WWTP-2 Primary Clarifier Equipment • TB-11 WWTP-10 Primary Digesters • WH-1 WH7 Wet Weather Storage Tank • WH-20 West Hickman WWTP Wet Weather Storage Tank • WH-21 WWTP-1 Influent Pump Station (with WH-20) • WH-21 WWTP-2 Raw Sewage Pump Station (with WH-20) • WH-21 WWTP-3 Leaping Weir (with WH-20) • WH-21 WWTP-7 Clarifier Flow Distribution • WH-21 WWTP-18 Non-potable Water System (with WH-20) • WH-21 WWTP-20 Odor Control Facilities, Phase 2 (with WH-20)

Table 3.1
CD Quarterly Report
Fourth Quarter 2017

<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Anticipated to be Completed – First Quarter (January 1, 2018 – March 31, 2018)</i>
Capacity, Management, Operation and Maintenance (CMOM) Programs		
VII(16)	CMOM Programs Self-Assessment	<p>The CMOM Programs Self-Assessment, dated June 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, without further comment.</p> <ul style="list-style-type: none"> • Work anticipated to be completed during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ All CMOM elements associated with the CMOM Self-Assessment have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the CMOM Self-Assessment elements during the first quarter of 2018.
VII(16)(A)	Sewer Overflow Response Plan (SORP)	<p>The SORP, dated July 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, without further comment.</p> <ul style="list-style-type: none"> • Work anticipated to be completed during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ All CMOM elements associated with the SORP have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the SORP elements during the first quarter of 2018.
VII(16)(B)	System Capacity Assurance Program (CAP)	<p>The CAP, dated March 2014, was approved by the EPA and Kentucky EEC on July 3, 2014.</p> <ul style="list-style-type: none"> • Work anticipated to be completed during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Complete model verification / recalibration, as needed, and finalize annual Technical Memoranda for 2016 and 2017. ○ The contract for the 2018 rainfall and flow monitoring at temporary locations will be awarded during the first quarter of 2018. ○ The contract for the biennial program audit will be awarded during the first quarter of 2018. The audit will be performed during the first half of 2018. ○ Continue CAP implementation by reviewing / processing capacity requests for flow increases to the LFUCG sewer system in accordance with the System Capacity Assurance Program Plan. ○ Continue to provide modeling support during design of RMP projects and update the model for other non-RMP sewer improvements completed by LFUCG. ○ Continue to harvest earned credits from sewer improvements completed by LFUCG in 1Q18. ○ Perform minor enhancements / maintenance of the Credit Tracking Information Management System (CTIMS) software, as needed. ○ All CMOM elements associated with the CAP have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the CAP elements during the first quarter of 2018.

Table 3.1
CD Quarterly Report
Fourth Quarter 2017

<i>Consent Decree Section Number</i>	<i>Task</i>	<i>Work Anticipated to be Completed – First Quarter (January 1, 2018 – March 31, 2018)</i>
VII(16)(C)	Fats, Oils, and Grease (FOG) Control Program	<p>The FOG Control Program, dated December 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, with comment.</p> <ul style="list-style-type: none"> • Work anticipated to be completed during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Continue FOG permit application review and permit issuance. ○ Continue routine inspections of Food Service Establishments (FSEs) based on risk ranking. ○ Continue distribution of residential FOG brochures to apartment complexes and residences. ○ Continue work with Lexington-Fayette County Health Department (LFCHD) to incorporate FOG training services in Food Manager Certification Classes. ○ All CMOM elements associated with the FOG Control Program have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the FOG Control Program elements during the first quarter of 2018.
VII(16)(D)	Gravity Line Preventative Maintenance Program (GLPMP)	<p>The GLPMP, dated December 2011, was approved by the EPA and Kentucky EEC on August 17, 2012, with comment.</p> <ul style="list-style-type: none"> • Work anticipated to be completed during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ Finalize an internal review of the preventative maintenance (PM) list’s protocols and procedures. ○ All CMOM elements associated with the GLPMP have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the GLPMP elements during the first quarter of 2018.
VII(16)(E)	Pump Station Operation Plan for Power Outages (PSOPPO)	<p>The PSOPPO, dated September 2012, was approved by the EPA and Kentucky EEC on October 3, 2013.</p> <ul style="list-style-type: none"> • Work anticipated to be completed during the first quarter of 2018 is as follows: <ul style="list-style-type: none"> ○ All CMOM elements associated with the PSOPPO have been initiated for implementation; therefore, LFUCG will continue to implement and evaluate the PSOPPO elements during the first quarter of 2018.

The following table provides information on projects and activities anticipated in the next calendar quarter related to the storm sewer system. Table 3.2 highlights various Stormwater Quality Management Program activities anticipated for the next quarter.

Table 3.2
CD Quarterly Report
Fourth Quarter 2017
Stormwater Quality Management Program
Activities Anticipated for the First Quarter 2018

1.	Performance Standards – LFUCG will continue implementing recurring Performance Standards.
2.	Stormwater Quality Management Program – LFUCG will continue implementing the <u>Stormwater Quality Management Program</u> , dated June 1, 2016.
3.	Water Quality Management Fee Implementation – Ongoing Stormwater Quality Projects Incentive Grant Program grants will continue and will be completed as scheduled. Any executed grant award agreements will be forwarded to the Urban County Council for approval. Anticipated future meeting dates of the Water Quality Fees Board are January 11, 2018, and April 12, 2018. The main topics for the January meeting will be to evaluate programmatic changes and the FY 2019 grant application documents.
4.	<p>Public Education and Outreach –</p> <ul style="list-style-type: none"> • LFUCG will update its website about the stormwater program. • The database of people wanting to receive information from DWQ by email will continue to be updated. • LFUCG will continue to develop and publish success stories. • LFUCG Department of Environmental Quality & Public Works staff will attend events to promote the stormwater and water quality program. • LFUCG will continue to air its stormwater videos.

5.	<p>Public Involvement and Participation –</p> <ul style="list-style-type: none"> • The West Hickman Watershed Council will meet in February. • Volunteer service opportunities will continue to be facilitated by LFUCG during the first quarter. • Storm drain stenciling will continue. • The Stormwater Stakeholder Advisory Committee will continue meeting.
6.	<p>Illicit Discharge Detection and Elimination – IDDE investigations will continue and staff will continue sending educational information to residents and responsible parties of illicit discharges.</p>
7.	<p>Construction Site Stormwater Runoff Control – Monthly active construction site inspections and targeted inspections will continue. LFUCG will conduct a workshop on ESC Plan Review for staff.</p>
8.	<p>Post-Construction Stormwater Management in New Development and Redevelopment – Inspections of detention basins, retention ponds, stormwater control devices, and critical culverts will continue. LFUCG will continue to coordinate with property owners to ensure maintenance of stormwater control devices, and will continue to conduct initial stormwater quality BMP inspections for additions to the inventory, as sites become known to DWQ staff.</p>
9.	<p>Pollution Prevention for Municipal Operations – LFUCG will continue quarterly inspections and maintenance of city-owned Suntree units, Stormceptors, and other water quality control devices. LFUCG will continue a quarterly highlight of a Greenworks Guide on its intranet during the first quarter.</p> <p>Litter and woody debris removal will continue in streams, drainageways, and public right-of-way areas adjacent to the stormwater collection system.</p>
10.	<p>Industrial Facility Stormwater Pollution Prevention – The inventory of industrial facilities and high-risk commercial facilities will continue to be updated and inspections of facilities will continue. LFUCG will receive updated SWPPPs and 2017 DMRs from facilities on LFUCG’s inventory during the first quarter. LFUCG will host two identical workshops for local industries and high-risk commercial facilities regarding stormwater pollution prevention in March.</p>

11.	Water Quality Monitoring – Permit-required monitoring will continue. Phase 1 Field Screening activities will continue in South Elkhorn for the Watershed-Focused Monitoring Program during the first quarter.
12.	Reporting and Recordkeeping – Ongoing recordkeeping will continue.
13.	TMDLs and Impaired Waters – LFUCG will continue drafting a TMDL BMP Implementation Strategy that lists the BMPs that will be proposed for implementation.

Table 3.3 provides information on anticipated progress in the next calendar quarter related to the implementation of the Supplemental and Commonwealth Environmental Projects required by the Consent Decree.

Table 3.3
CD Quarterly Report
Fourth Quarter 2017
Supplemental and Commonwealth Environmental Projects
Progress Anticipated for the First Quarter 2018

J-1	Coldstream Park Stream Corridor Restoration and Preservation SEP – The contractor will continue planting trees, shrubs, and native seed. The Greenspace Trust will hold a meeting at the project site during the first quarter.
J-2	Green Infrastructure SEP – LFUCG is assuming this SEP is complete unless directed otherwise by the EPA.
K-1	Blue Sky Package Treatment Plant Elimination Project – Complete.
K-2	<p>Flooding Evaluation Project –</p> <p>Shop drawing review of the culvert for the Wilson Downing Tributary project will occur during the first quarter.</p> <p>Investigation, concept design, surveying, and H&H modeling will continue on the Southland stormwater project. A stakeholder meeting will be held to present conceptual design alternatives to the public.</p> <p>Analysis and investigation of Peachtree (#71.5) and Woodhill (#72) will continue.</p> <p>Analysis of intersection flooding at Elizabeth Street and Forest Park will begin, which will re-open project #60 on the priority list.</p>

Section IV
CD Quarterly Report
Fourth Quarter 2017
January 29, 2018

CD Language:

X. REPORTING REQUIREMENTS AND APPROVAL OF SUBMITTALS

29. Reports.

A. Quarterly Reports.

(iv) If LFUCG violates any requirement of this Consent Decree or has reason to believe that it is likely to violate any requirement of this Consent Decree in the future, LFUCG shall notify the United States and EPPC of such violation and its likely duration, with an explanation of the violation's likely cause and of the remedial steps taken, and/or to be taken, to prevent or minimize such violation. If the cause of a violation cannot be fully explained at the time the report is due, LFUCG shall include a statement to that effect in the report. LFUCG shall investigate to determine the cause of the violation and then shall submit an amendment to the report, including a full explanation of the cause of the violation, within thirty (30) days after the quarterly report.

LFUCG's Response:

LFUCG has not violated any requirement or deadline associated with the Consent Decree during this past quarter; however, LFUCG anticipates missing the deadline for an RMP project scheduled for completion by the end of 2018.

Town Branch WWTP Primary Digesters

The project to upgrade the Town Branch WWTP primary digesters is a component of RMP Project TB-11 (Town Branch WWTP Reliability Upgrades) detailed in the RMP Group 2 submittal in April 2012. According to the approved WWTP Reliability Upgrade Projects schedule dated February 2016, this project is to be functionally operational by December 31, 2018. At this time, the projected completion date for the upgrade of the primary digesters is October 31, 2019, which will be approximately 10 months past the deadline. The reason for the completion delay is provided below.

TB WWTP has three (3) primary digesters using equipment that is over 25 years old. The concrete structures associated with the digesters are in good condition; however, the digester equipment needs to be replaced to ensure functionality. The original primary digester upgrade

project components included replacement of the digester covers, mixing systems, boilers, heat exchangers, and waste gas flare.

During preliminary design discussions, it became apparent that the scope of the project needed to be significantly expanded in order to meet the requirements of NFPA 820 (Standard for Fire Protection in Wastewater Treatment and Collection Facilities, published by National Fire Protection Association), which came into effect after construction of the existing primary digester complex. The existing primary digester complex was completed in 1989 and NFPA 820 was published in 1990. NFPA 820 will require the relocation of air supply equipment, the separation of non-hazardous and hazardous classified areas, the isolation of digester gas handling equipment, and the relocation of the boilers. LFUCG originally estimated the cost to upgrade the primary digesters to be \$3,525,000; however, the expanded scope of the upgrade, which will incorporate the NFPA requirements, has created a project estimated to cost \$10,500,000.

At this point, the project's design is complete and it has been bid for construction. The project is scheduled to be awarded on February 8, 2018, with a construction start date of March 1, 2018. Construction is expected to take 20 months. The expanded project design scope described above will also lengthen the original project construction schedule due to the additional work required to meet NFPA 820, the necessary equipment procurement lead times, and a more complex rehabilitation of the primary digester covers.

In summary, all the improvements associated with this project are anticipated to be complete by October 31, 2019. No recurring SSOs are anticipated to be impacted by the delay in completion of this project.

Section V
CD Quarterly Report
Fourth Quarter 2017
January 29, 2018

CD Language:

X. REPORTING REQUIREMENTS AND APPROVAL OF SUBMITTALS

29. Reports.

A. Quarterly Reports.

(v) Any additional information that demonstrates that LFUCG is implementing the remedial measures required in this Consent Decree.

LFUCG's Response:

The following table lists the items that have been submitted to EPA and EEC, the date submitted, and the current approval status, if applicable.

Table 5.1
CD Quarterly Report
Fourth Quarter 2017
Consent Decree Deliverables
Submitted as of January 29, 2018

Project/Program/Report Name	Date Submitted	Current Approval Status
Notification of WWTP Backup Power Installation/Completion	2008-Mar-31	N/A
SSA Work Plan	2008-Jun-09	EPA/EEC review complete – 2012-Aug-17 Certified Letter No. 70101060000217059186

Project/Program/Report Name	Date Submitted	Current Approval Status
Hydraulic Model Report	2008-Jul-08	EPA/EEC review complete – 2012-Aug-17 Certified Letter No. 70101060000217059186
Notification of Appendix F Cross Connections Eliminated	2008-Jul-09	N/A
Sewer Overflow Response Plan (initial submittal)	2008-Jul-25	EPA/EEC informal comments – 2011-Mar-17 Certified Letter No. 70101060000217047404; LFUCG resubmitted
CMOM Programs Self-Assessment (initial submittal)	2008-Aug-26	EPA/EEC informal comments – 2010-Dec-6 Certified Letter No. 70052570000148867697; LFUCG resubmitted
Capacity Assessment Work Plan	2008-Sep-09	EPA/EEC review complete – 2012-Aug-17 Certified Letter No. 70101060000217059186
2008 Annual Report	2009-Jan-29	N/A
Notification of Pump Station Design, Capacity, and Equipment Condition Adequacy Evaluation Report Completion	2009-Mar-07	N/A
First Quarter 2009 Quarterly Report	2009-Apr-29	N/A
Pump Station Operation Plan for Power Outages (initial submittal)	2009-May-14	EPA/EEC informal comments – 2011-Mar-17 Certified Letter No. 70101060000217047404; LFUCG resubmitted
Second Quarter 2009 Quarterly Report	2009-Jul-29	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
Fats, Oils, and Grease Control Program (initial submittal)	2009-Aug-10	EPA/EEC informal comments – 2011-Mar-17 Certified Letter No. 70101060000217047404; LFUCG resubmitted
Gravity Line Preventative Maintenance Program (initial submittal)	2009-Aug-13	EPA/EEC informal comments – 2011-Mar-17 Certified Letter No. 70101060000217047404; LFUCG resubmitted
North Elkhorn Force Main Diversion Project	2009-Oct-29 via quarterly report	N/A
Third Quarter 2009 Quarterly Report	2009-Oct-29	N/A
Fourth Quarter 2009 Quarterly Report	2010-Jan-28	N/A
2009 Annual Report	2010-Jan-28	N/A
First Quarter 2010 Quarterly Report	2010-Apr-29	N/A
MS4 Permit Annual Report for 2009 (Fiscal Year 2009 – Calendar Year 2009)	2010-Jul-14	N/A
Second Quarter 2010 Quarterly Report	2010-Jul-23	N/A
South Elkhorn Pump Station and Force Main Upgrade	2010-Oct-28 via quarterly report	N/A
Third Quarter 2010 Quarterly Report	2010-Oct-28	N/A
Fourth Quarter 2010 Quarterly Report	2011-Jan-28	N/A
2010 Annual Report	2011-Jan-28	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
SSA Group 1 Report	2011-Apr-12	EPA/EEC comments – 2011-Oct-14 Certified Letter No. 70101060000217055027; LFUCG response dated 2011-Nov-18
First Quarter 2011 Quarterly Report	2011-Apr-29	N/A
Sewer Overflow Response Plan (second submittal)	2011-Jun-29	EPA/EEC approved without further comment – 2012-Aug-17 Certified Letter No. 70101060000217059186
CMOM Programs Self-Assessment (second submittal)	2011-Jul-01	EPA/EEC approved without further comment – 2012-Aug-17 Certified Letter No. 70101060000217059186
MS4 Permit Annual Report for Calendar Year 2010	2011-Jul-14	N/A
List of Future Authorized Connections	2011-Jul-21 via quarterly report	N/A
Second Quarter 2011 Quarterly Report	2011-Jul-21	N/A
Pump Station Operation Plan for Power Outages (second submittal)	2011-Sep-30	EPA/EEC comments – 2012-Aug-17 Certified Letter No. 70101060000217059186; LFUCG resubmitted

Project/Program/Report Name	Date Submitted	Current Approval Status
RMP Group 1	2011-Oct-12	<p>EPA/EEC approved with the exception of the proposed implementation schedule – 2014-Nov-18 Certified Letter No. 70121010000207596533</p> <p><u>First Material Modification to Consent Decree</u> filed 2015-Jul-9 approves June 2014 overall implementation schedule</p> <p>EPA/EEC full approval of the RMPs including the project implementation schedule dated Feb 2016 – 2016-Mar-18 Certified Letter No. 70151730000180442722</p>
SSA Group 2 Report	2011-Oct-13	No formal comments received from EPA/EEC
Third Quarter 2011 Quarterly Report	2011-Oct-27	N/A
Fats, Oils, and Grease Control Program (second submittal)	2011-Dec-16	EPA/EEC approved with comment – 2012-Aug-17 Certified Letter No. 70101060000217059186
Gravity Line Preventative Maintenance Program (second submittal)	2011-Dec-19	EPA/EEC approved with comment – 2012-Aug-17 Certified Letter No. 70101060000217059186
Fourth Quarter 2011 Quarterly Report	2012-Jan-27	N/A
2011 Annual Report	2012-Jan-30	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
SSA Group 3 Report	2012-Apr-12	No formal comments received from EPA/EEC
RMP Group 2	2012-Apr-13	<p>EPA/EEC approved with the exception of the proposed implementation schedule – 2014-Nov-18 Certified Letter No. 70121010000207596533</p> <p><u>First Material Modification to Consent Decree</u> filed 2015-Jul-9 approves June 2014 overall implementation schedule</p> <p>EPA/EEC full approval of the RMPs including the project implementation schedule dated Feb 2016 – 2016-Mar-18 Certified Letter No. 70151730000180442722</p>
Deep Springs Pump Station Upgrade	2012-Apr-27 via quarterly report	N/A
Dixie Pump Station Upgrade	2012-Apr-27 via quarterly report	N/A
First Quarter 2012 Quarterly Report	2012-Apr-27	N/A
Appendix J-2 SEP Completion Report	2012-Jun-29	Under EPA/EEC Review
MS4 Permit Annual Report for Calendar Year 2011	2012-Jul-13	N/A
Second Quarter 2012 Quarterly Report	2012-Jul-20	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
Pump Station Operation Plan for Power Outages (third submittal)	2012-Sep-19	EPA/EEC approved – 2013-Oct-3 Certified Letter No. 70101670000225534553
RMP Group 3	2012-Oct-11	EPA/EEC approved with the exception of the proposed implementation schedule – 2014-Nov-18 Certified Letter No. 70121010000207596533 <u>First Material Modification to Consent Decree</u> filed 2015-Jul-9 approves June 2014 overall implementation schedule EPA/EEC full approval of the RMPs including the project implementation schedule dated Feb 2016 – 2016-Mar-18 Certified Letter No. 70151730000180442722
SORP – Implementation Commenced	2012-Oct-29 via quarterly report	N/A
Third Quarter 2012 Quarterly Report	2012-Oct-29	N/A
System Capacity Assurance Program (initial submittal)	2012-Dec-21	EPA/EEC comments – 2014-Feb-12 Certified Letter No. 70123460000308919960; LFUCG resubmitted
Appendix J-1 SEP Coldstream Park Greenway Plan	2012-Dec-21	No formal comments received from EPA/EEC

Project/Program/Report Name	Date Submitted	Current Approval Status
Fourth Quarter 2012 Quarterly Report	2013-Jan-29	N/A
2012 Annual Report	2013-Jan-30	N/A
First Quarter 2013 Quarterly Report	2013-Apr-29	N/A
MS4 Permit Annual Report for Calendar Year 2012	2013-Jul-12	N/A
Second Quarter 2013 Quarterly Report	2013-Jul-29	N/A
SORP 2013 Update	2013-Oct-14	Under EPA/EEC Review
Third Quarter 2013 Quarterly Report	2013-Oct-29	N/A
Fourth Quarter 2013 Quarterly Report	2014-Jan-29	N/A
2013 Annual Report	2014-Jan-30	N/A
RMP Revisions	2014-Mar-14	N/A
System Capacity Assurance Program (second submittal)	2014-Mar-14	EPA/EEC approved – 2014-Jul-3 Certified Letter No. 70101060000217039041
FOG Program – Implementation	2014-Apr-29 via quarterly report	N/A
GLPM Program – Implementation	2014-Apr-29 via quarterly report	N/A
First Quarter 2014 Quarterly Report	2014-Apr-29	N/A
MS4 Permit Annual Report for Calendar Year 2013	2014-Jul-14	N/A
Second Quarter 2014 Quarterly Report	2014-Jul-29	N/A
SORP 2014 Update	2014-Oct-14	Under EPA/EEC Review
RMP Project EH-13 East Lake Trunk Upsize	2014-Oct-29 via quarterly report	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
RMP Project WH-21 WWTP-5 Zone 1 Aeration	2014-Oct-29 via quarterly report	N/A
RMP Project WH-21 WWTP-6 Zone 2 Aeration, Phase 1	2014-Oct-29 via quarterly report	N/A
CAP – Implementation Commenced	2014-Oct-29 via quarterly report	N/A
CMOM – Development & Implementation	2014-Oct-29 via quarterly report	N/A
List of Future Authorized Connections	2014-Oct-29 via quarterly report	N/A
Blue Sky Pump Station/Force Main	2014-Oct-29 via quarterly report	N/A
Third Quarter 2014 Quarterly Report	2014-Oct-29	N/A
Appendix K-1 CEP Completion Report	2014-Dec-05	EEC confirmed CEP completion – 2016-Jul-21 Certified Letter No. 70123460000234676351
Appendix J-1 SEP Coldstream Park Greenway Plan Supplement	2014-Dec-31	No formal comments received from EPA/EEC
RMP Project EH-12 Century Hills Trunk Upsize	2015-Jan-29 via quarterly report	N/A
RMP Project NE-7 Expansion Area 2A Projects	2015-Jan-29 via quarterly report	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
RMP Project TB-11 WWTP-4 Final Clarifier Equipment, Phase 1	2015-Jan-29 via quarterly report	N/A
RMP Project WH-13 Idle Hour Trunk	2015-Jan-29 via quarterly report	N/A
RMP Project WH-21 WWTP-20 Odor Control Facilities, Phase 1	2015-Jan-29 via quarterly report	N/A
RMP Project WR-1 Wolf Run Main Trunk A	2015-Jan-29 via quarterly report	N/A
RMP Project WR-10 Bob O Link Trunk	2015-Jan-29 via quarterly report	N/A
RMP Project WR-11 Wolf Run Pump Station	2015-Jan-29 via quarterly report	N/A
List of Future Authorized Connections	2015-Jan-29 via quarterly report	N/A
Fourth Quarter 2014 Quarterly Report	2015-Jan-29	N/A
2014 Annual Report	2015-Jan-30	N/A
First Quarter 2015 Quarterly Report	2015-Apr-29	N/A
MS4 Permit Annual Report for Calendar Year 2014	2015-Jul-14	N/A
RMP Project TB-3 Tie-in Lower Cane Run Force Main	2015-Jul-29 via quarterly report	N/A
Second Quarter 2015 Quarterly Report	2015-Jul-29	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
Appendix J-1 SEP Coldstream Park Greenway Plan Update (Original Plan Combined with Supplement)	2015-Aug-12	EPA/EEC approved – 2015-Nov-25 Certified Letter No. 70142870000033182893
SORP 2015 Update	2015-Oct-14	Under EPA/EEC Review
Third Quarter 2015 Quarterly Report	2015-Oct-29	N/A
RMP Project WH-2 West Hickman Main Trunk A	2016-Jan-28 via quarterly report	N/A
RMP Project WH-16 Woodhill Trunk	2016-Jan-28 via quarterly report	N/A
Fourth Quarter 2015 Quarterly Report	2016-Jan-28	N/A
2015 Annual Report	2016-Jan-29	N/A
First Quarter 2016 Quarterly Report	2016-Apr-26	N/A
MS4 Permit Annual Report for Calendar Year 2015	2016-Jul-14	N/A
Second Quarter 2016 Quarterly Report	2016-Jul-28	N/A
SORP 2016 Update	2016-Oct-13	Under EPA/EEC Review
Third Quarter 2016 Quarterly Report	2016-Oct-27	N/A
PSOPPO – Implementation	2017-Jan-27 via quarterly report	N/A
RMP Project TB-1 Town Branch WWTP Wet Weather Storage Tank	2017-Jan-27 via quarterly report	N/A
RMP Project TB-5 UK Trunk B (Newtown Pike Extension)	2017-Jan-27 via quarterly report	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
RMP Project TB-11 WWTP-1 Headworks	2017-Jan-27 via quarterly report	N/A
RMP Project WR-8 Wolf Run Wet Weather Storage Tank	2017-Jan-27 via quarterly report	N/A
Fourth Quarter 2016 Quarterly Report	2017-Jan-27	N/A
2016 Annual Report	2017-Jan-30	N/A
RMP Project TB-11 WWTP-12 Dewatering	2017-Apr-27 via quarterly report	N/A
First Quarter 2017 Quarterly Report	2017-Apr-27	N/A
MS4 Permit Annual Report for Calendar Year 2016	2017-Jul-13	N/A
RMP Project TB-4 UK Trunk A	2017-Jul-27 via quarterly report	N/A
Second Quarter 2017 Quarterly Report	2017-Jul-27	N/A
SORP 2017 Update	2017-Oct-12	Under EPA/EEC Review
RMP Project CR-9 Lower Griffin Gate Trunk	2017-Oct-26 via quarterly report	N/A
Third Quarter 2017 Quarterly Report	2017-Oct-26	N/A
RMP Project CR-1 Lower Cane Run Wet Weather Storage Tank	2018-Jan-29 via quarterly report	N/A
RMP Project SE-1 South Elkhorn Pump Station Upsize	2018-Jan-29 via quarterly report	N/A

Project/Program/Report Name	Date Submitted	Current Approval Status
RMP Project WH-3 West Hickman Main Trunk B	2018-Jan-29 via quarterly report	N/A
RMP Project WH-4 West Hickman Main Trunk C	2018-Jan-29 via quarterly report	N/A
RMP Project WH-21 WWTP-6 Zone 2 Aeration, Phase 2	2018-Jan-29 via quarterly report	N/A