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January 30, 2012

Chief, Water Programs Enforcement Branch Water Management Program US EPA Region 4 Atlanta Federal Center 61 Forsyth Street SW Atlanta, GA 30303

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

Subject: Quarterly Report 25 Civil Action No. 3:08-cv-00608-CRS Chief, Environmental Enforcement Section Environmental and Natural Resources Division U.S. Department of Justice Post Office Box 7611 Washington DC 20044-7611

Attention Chief:

Please find attached our Quarterly Report, prepared in accordance with Paragraph 29 of our Amended Consent Decree. This report is for the period October 1, 2011 – December 31, 2011. This report provides an overview of significant program elements, issues, and accomplishments pertaining to Consent Decree compliance activities. Included are sections on Project WIN activities related to: NMC, SORP, Discharge Abatement Plans, Public Outreach, Education, Notification and Participation, CMOM and Performance Overview.

I certify under penalty of law that this document and all attachments were prepared under our direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have questions or need additional information, please contact me at (502) 649-3850.

Sincerely,

W. B- R Brian Bingham. **Regulatory Services Director**

Q25 Certification KDEP 1-30-12 cc: Greg Heitzman, PE

Paula Purifoy



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Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #25



Reporting Period:

October 1, 2011 through December 31, 2011

Submitted To:

Kentucky Department of Environmental Protection

United States Environmental Protection Agency

United States Department of Justice

Submitted By:

Louisville and Jefferson County Metropolitan Sewer District 700 W. Liberty Street Louisville, Kentucky 40203-1911

Submittal Date:

January 30, 2012



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ATTACHMENTS

APPENDIX A-1 DISCHARGE WORK ORDERS-DRY WEATHER CSOS APPENDIX A-2 DISCHARGE WORK ORDERS-BYPASS APPENDIX A-3 DISCHARGE WORK ORDERS-BLENDING APPENDIX B-CSO FLOW MONITORING DATA APPENDIX C-ACRONYMS





INTRODUCTION

The Louisville and Jefferson County Metropolitan Sewer District (MSD) has entered into an Amended Consent Decree with the Kentucky Department of Environmental Protection (KDEP) and the United States Environmental Protection Agency (EPA). The Amended Consent Decree was signed by United States District Judge Simpson on April 10, 2009, and filed in United States District Court, Western Division of Kentucky, Louisville Division, on April 15, 2009.

This is the twenty-fifth Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from October 1, 2011, through December 31, 2011. The structure for this report is outlined as follows:

Section 1: Program Activities for Nine Minimum Controls (NMC) - This section describes the data collected for NMC 2 – Maximization of Storage in the Collection System, and NMC 4 – Maximization of Flow at the Morris Forman Water Quality Treatment Center (WQTC) that were active during the reporting period (October 1, 2011, through December 31, 2011).

Section 2: Program Activities for Sewer Overflow Response Protocol (SORP) - This section describes the training attendance records, overflow data, and overflow reconnaissance inspection routes related to SORP that were active during the reporting period (October 1, 2011, through December 31, 2011).

Section 3: Program Activities for Discharge Abatement Plans (DAP) - This section describes the schedule and status for projects related to the DAP by means of an updated Gantt chart for active DAP projects during the reporting period (October 1, 2011, through December 31, 2011), and the anticipated projects and activities that are scheduled to be performed during the next two reporting periods (January 1, 2011, through June 30, 2011), for continued compliance with the Amended Consent Decree.

Section 4: Program Activities for Public Outreach, Education, Notification and Participation - This section describes the activities related to public outreach that were active during the reporting period (October 1, 2011, through December 31, 2011).

Section 5: Capacity Management, Operations and Maintenance Report - The CMOM program activities and programmatic activities for WQTCs generating capital projects will be reported in a Gantt chart for the reporting period (October 1, 2011, through December 31, 2011), and include the schedule for activities planned for the next two reporting periods (January 1, 2011, through June 30, 2011), are included in this section for continued compliance with the Amended Consent Decree.

Section 6: Performance Overview - This section provides an accounting of unauthorized discharge occurrences from the separate sanitary sewer and combined sewer system and the estimated volumes of each. A discussion of the probable reductions in both unauthorized discharge points and the discharges from MSD's Combined Sewer Overflow (CSO) locations, identified in the Morris Forman Water Quality Treatment Center (WQTC) Kentucky Pollutant Discharge Elimination System (KPDES) permit, that are expected to result from MSD's projects and activities during the reporting period are also contained in this section.





Performance information on Jeffersontown WQTC blending events, bypasses at WQTCs, DMR information, and phosphorous monitoring at WQTCs is included in this section.





SECTION 1: Program Activities for Nine Minimum Controls

1.1 Nine Minimum Controls Program Background

Per Paragraph 24.a. of the Amended Consent Decree, the Nine Minimum Controls (NMC) Compliance Report was initially submitted to EPA and KDEP on February 10, 2006. MSD received an approval letter, dated February 22, 2007, for the NMC Compliance Report. The approved NMC Compliance document can be viewed on the MSD Project WIN website <u>www.msdlouky.org/projectwin</u>. Highlights of the NMC program implementation over this reporting period are outlined below.

1.2 NMC 2: Maximization of Storage in the Collection System

Continued operation of Phase 1 and Phase 2 of the Real Time Control system. During this reporting period, approximately 412.5 MG were stored in the system during rain events and routed to the Morris Forman WQTC once the system was able to handle the flow. See the figure at the end of this section for a detailed report.

1.3 NMC 4: Maximization of Flow at the Morris Forman Water Quality Treatment Center (WQTC)

The following charts illustrate performance in maximizing flow to the Morris Forman WQTC. The top of the chart shows rainfall inches per day. The middle part of the chart shows Morris Forman WQTC effluent flow, secondary treatment flow, and secondary bypass flow. The bottom of the chart shows days with a CSO activation at the five CSOs in the vicinity of the Morris Forman WQTC (CSOs 015, 016, 191, 210, and 211). Note that the flow meter downstream from CSO 211 is known to be affected by backwater effects of the Ohio River and the ultrasonic signal is sometimes blocked by mist and condensation when air and sewage temperatures are significantly different, so CSO activations at CSO 211 are keyed to water levels upstream and downstream of the inflatable dam in the Main Diversion Structure. The other CSO activations are tied to flow measurement downstream of the respective CSOs.

As noted in the previous Quarterly Report 24, all four of the primary sedimentation basins require major preventive maintenance and associated repairs to assure continued reliable performance. These repairs include cleaning, normal "wear and tear" preventive maintenance, and repair of the bottom scrapers, which are a high-wear item. During the previous quarter this work was completed on two basins, and work started on the third. During this period work was completed on the third basin and started on the fourth basin. Work on the fourth basin is expected to be completed in mid-January, 2012. With one sedimentation basin out of service, the peak flow capacity of the Morris Forman WQTC is 210 - 270 MGD, depending on sludge blanket depths. This is reflected in the reduced peak wet weather flows handled during most of this reporting period.

In October 2011, the Morris Forman staff also started a program of preventive maintenance and rehabilitation for the grit chambers in the West (old) Headworks. Two of the grit chambers were rehabilitated during this reporting period, with the third expected to be completed in January 2012. Since these inspections were conducted concurrently with primary sedimentation basin outages no further impact on plant capacity occurred.













































During the next reporting period detailed evaluations will be initiated for the primary sedimentation basin sludge and scum pumping systems, and the East and West Headworks screening and grit removal systems. It is not anticipated that these evaluations will require any significant equipment down-time. If repair or replacement activities are recommended as a result of the evaluations they will be scheduled in accordance with plant maintenance priorities.

There were no KPDES permit violations at Morris Forman WQTC during October, November, or December, 2011.

During this reporting period, the following activities were continued and/or completed:

- <u>Main Diversion Structure Flow Measurement</u> Continued to monitor and improve measurement accuracy over several storms and made minor corrections to the various constants. This measurement is now considered accurate and reliable enough for operational purposes. The reported flow measurement location will, however, continue to be the flume at the Final Effluent Pump Station, in accordance with the KPDES permit. MSD will continue to monitor and refine this relationship as additional data is developed. It is anticipated that Sluice Gate 1 will be incorporated into an automatic flow control system linked to the Southwestern Pump Station as part of the Paddy's Run Wet Weather Treatment Facility project currently scheduled for completion in 2014.
- <u>Wet Weather Operational Plan</u> Training continued on the new SOPs, which will be fully put in place over the next few reporting periods. In addition, a stress test was performed on the secondary clarifiers to evaluate the impact of hydraulic loading, solids loading, and sludge blanket depth on secondary clarifier performance. A draft report on the results will be issued to MSD in the next reporting period. Follow-up work may include revising the Morris Forman WQTC Capacity Calculator if final results indicate this is appropriate.
- <u>RTC System-Wide Optimization Project</u> Continued evaluations of the impacts of the recalibration and level of control review held up issuing the draft report for MSD review and comment, as some of the control sites may change as a result of this recalibration and level of control changes. The draft final report was issued for MSD review and comment in December, 2011. It is anticipated that MSD review comments will be received and that the final report for this project will be issued during the next reporting period.







Real Time Control Operations Detailed Report

WET WEATHER STORAGE IN THE MORRIS FORMAN SEWER SYSTEM VIA THE RTC SYSTEM



	Wet	Weather Event		R	ainfall				Wet Weather St	orage Volu	me (MG)			High	
Event Number	Start Date	End Date	Duration	Average* TRFD (in)	Ma TRFD (in)	ax** Rain Gauge	SWPS SG Chamber	SWOR2	Brady Lake and Executive Inn Storage	Southern Outfall	Ohio River Interceptor	Sneads Branch	Total	River Levels	
2011-073	10/13/2011 06:30	10/14/2011 01:40	19:10	0.48	0.60	TR14	3.9	1.5	0.8	3.8	3.8	0.1	13.8	No	
2011-075	10/18/2011 18:25	10/20/2011 17:20	46:55	0.65	0.79	TR13	0.0	0.0	0.2	3.0	6.0	0.0	9.2	No	SW OR2 manually controlled, Co
2011-076	10/26/2011 07:50	10/28/2011 03:20	43:30	1.25	1.58	TR15	15.6	7.4	4.3	4.7	4.3	1.7	38.0	No	
2011-077	11/03/2011 08:25	11/04/2011 07:50	23:25	0.68	0.74	TR15	8.0	0.0	0.1	2.9	3.3	0.1	14.4	No	SW OR2 manually controlled, Co
2011-080	11/14/2011 21:05	11/17/2011 16:10	67:05	2.14	2.42	TR14	18.8	6.3	6.5	10.3	11.0	1.1	54.0	No	Consecutive storms with some of
2011-082	11/20/2011 03:00	11/24/2011 20:50	113:50	2.05	2.68	TR15	21.1	6.4	6.1	11.6	10.4	1.5	57.1	No	Consecutive storms with some of
2011-083 & 084	11/27/2011 02:05	12/03/2011 05:15	147:10	3.17	3.68	TR14	25.1	10.5	8.7	10.6	8.2	2.2	65.3	Yes	SW OR2 and SW SG manually o
2011-085	12/04/2011 14:15	12/08/2011 14:20	96:05	2.95	3.32	TR05	28.1	12.3	8.1	5.8	4.6	2.2	61.1	Yes	Many site manually controlled
2011-086	12/15/2011 03:10	12/15/2011 20:20	17:10	0.45	0.51	TR04	7.9	0.0	0.7	3.8	3.8	0.1	16.2	No	SW OR2 and SW SG manually of
2011-087	12/20/2011 22:20	12/22/2011 02:50	28:30	0.65	0.80	TR14	12.8	2.8	1.8	4.7	4.2	0.6	26.9	No	SW OR2 manually controlled
2011-088	12/22/2011 10:40	12/23/2011 21:35	34:55	0.56	0.64	TR14	13.8	1.5	2.1	4.6	4.2	0.3	26.5	No	SW OR2 manually controlled
2011-089	12/27/2011 00:30	12/29/2011 00:30	48:00	0.80	0.86	TR15	14.7	1.7	3.0	6.0	4.5	0.2	30.1	No	SW OR2 manually controlled
TOTAL							169.8	50.4	42.4	71.6	68.2	10.1	412.5		

* Average Total Rainfall Depth Based on Rain Gauge TR04, TR05, TR11, TR12, TR13, TR14 and TR15

1

** Maximum Total Rainfall Depth Measurement and its Location during the Wet Weather Event







SECTION 2: Program Activities for Sewer Overflow Response Protocol

2.1 SORP Program Background

Per Paragraph 24.d. of the Amended Consent Decree, MSD initially submitted the Sewer Overflow Response Protocol (SORP) to EPA and KDEP on February 10, 2006, and received comments on March 13, 2006.

MSD completely revised the SORP documentation in 2011. The draft of this revised document was submitted for comment on August 22, 2011. Comments from the EPA and KDEP were received and addressed, and the document was resubmitted October 28, 2011. At this time MSD is awaiting an approval letter for this most recent SORP. A hard copy of the approved SORP document will be distributed to each division throughout MSD and a viewable, downloadable electronic version will be posted to the MSD Project WIN website www.msdlouky.org/projectwin once the approval letter is received.

The current approved SORP document is dated November 5, 2008, and can be viewed on the MSD Project WIN website <u>www.msdlouky.org/projectwin</u>. The following activities were performed during this reporting period.

2.2 Overflow Management and Field Documentation

 Monitored approximately 164 sanitary sewer overflow (SSO) sites, which have been grouped into routes based on the range of rainfall rates necessary to cause a SSO. These routes are monitored during rain events depending on the magnitude and location of the storm. If an overflow is observed, a Discharge Work Order is created to document the event. During this quarter, Regulatory Services and Engineering staff documented 115 unauthorized discharges. Inspection routes were run during rain events as described in the following table:

Route Description	11/15/2011	11/22/2011	11/23/2011	11/29/2011	11/30/2011	12/5/2011	12/6/2011	12/8/2011	1/11/2012	12/27/2011	12/7/2011
Engineering Rain Event SSO Inspection Route				х	х	х	х	х	х	х	
RS Hikes Point SSO Inspection Route	х	х		х			Х			х	
RS Jeffersontown Siphon Inspection Route	х		Х	х			Х			х	
RS Jeffersontown/Fern Creek SSO Inspection Route	х		Х	Х			Х			Х	
RS Middle/Muddy Fork SSO Inspection Route	х	х			х		Х			х	х





• Due to Capacity related issues, during this reporting period, MSD Metro Operations staff hauled 1,660,851 gallons of sewage. MSD also hauled due to other issues as indicated in the following table:

MSD Hauled Vo	lumes In Ga	llons (October 1	l, 2011 – Decen	nber 31, 2011)		
Problem October November December Grand Tota						
CAPACITY	3,500	923,650	733,701	1,660,851		
MECHANICAL		11,400	5,000	16,400		
POWER		3,000		3,000		
Grand Total	3,500	938,050	738,701	1,680,251		

2.3 Staff Training and Communication

- Reviewed and updated the training documentation for the 2011 fourth quarter SORP training that included completing overflow documentation.
- Commenced planning for the 2012 first quarter SORP training that will focus on Preparing, Monitoring and Response.
- Conducted the following SORP Quarterly training sessions which were attended by 289 employees.

Staff Training Partic	ipation - October 1, 2011 - D	ecember 31, 2011
Division	Date	Number of Attendees
Morris Forman Staff	11/16/2011	8
Morris Forman Staff	11/16/2011	40
Morris Forman Staff	11/16/2011	14
Engineering/RS Staff	11/29/2011	32
Morris Forman Staff	11/30/2011	6
Morris Forman Staff	11/30/2011	11
Morris Forman Staff	11/30/2011	10
Engineering/RS Staff	12/06/2011	52
Metro Staff	12/08/2011	21
Metro Staff	12/08/2011	24
I&FP Staff	12/09/2011	23
Metro Staff	12/15/2011	25
I&FP Staff	12/16/2011	23
Total		289

• Conducted 23 Annual training sessions for Fiscal Year 2012 which were attended by 651 employees.





SECTION 3: Program Activities for Discharge Abatement Plans

3.1 Integrated Overflow Abatement Plan (IOAP)

As a requirement of the Amended Consent Decree, per Paragraph 25, MSD is to prepare and submit for review and approval discharge abatement plans for the elimination of unauthorized discharges from the separate sanitary sewer system and the combined sewer system, the reduction and control of discharges from the CSO locations identified in the Morris Forman WQTC KPDES permit, and the improvement of water quality in the receiving waters.

The Final Sanitary Sewer Discharge Plan and the Final CSO Long Term Control Plan were submitted concurrently and certified on December 19, 2008, under the title of the Integrated Overflow Abatement Plan (IOAP). The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, that was entered into public record February 15, 2010.

3.2 Sanitary Sewer Discharge Plan (SSDP)

The Sanitary Sewer Discharge Plan (SSDP) addresses the overflows and unauthorized discharges from the separate sanitary sewer system. Three separate plans have been submitted under this program as described below and outlined in Paragraph 25.a. of the Amended Consent Decree.

3.2.1 Updated Sanitary Sewer Overflow Plan Implementation

MSD prepared and submitted the Updated Sanitary Sewer Overflow Plan (SSOP) on February 10, 2006. This plan included an overview of the MSD sanitary sewer overflow abatement program and specific actions taken to reduce/eliminate overflows from the sanitary sewer system. This document included a list of the proposed improvements to be accomplished by December 31, 2008. Activities required under the Updated SSOP have been completed.

3.2.2 Interim Sanitary Sewer Discharge Plan

MSD submitted for approval an Interim Sanitary Sewer Discharge Plan (ISSDP) on September 30, 2007. Comments were received on January 8, 2008. MSD resubmitted the revised ISSDP on March 7, 2008, and received an approval letter for the ISSDP on July 24, 2008. The approved ISSDP document can be viewed on the MSD Project WIN website www.msdlouky.org/projectwin.

3.2.3 Final Sanitary Sewer Discharge Plan

MSD submitted for approval a Final Sanitary Sewer Discharge Plan (SSDP) on December 19, 2008, as Volume 3 of the Integrated Overflow Abatement Plan (IOAP). The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, that was entered into public record February 15, 2010.

• Prospect WQTC Elimination Projects Easement Status - A total of 38 easements have been identified that are necessary to complete the entire suite of projects related to the plant eliminations. To date, MSD has acquired 16 of these easements, and have





made offers to purchase two others. The remaining 20 easement plats are still being finalized.

3.3 CSO Long Term Control Plan

The CSO Long Term Control Plan (LTCP) addresses the overflows and unauthorized discharges from the CSS. Two separate plans have been submitted under this program as described below and outlined in Paragraph 25.b. of the Amended Consent Decree.

3.3.1 Interim CSO Long Term Control Plan

The Interim CSO LTCP was initially submitted to EPA and KDEP on February 10, 2006. MSD received an approval letter dated February 22, 2007, for the Interim LTCP. The approved Interim LTCP can be viewed on the MSD Project WIN website <u>www.msdlouky.org/projectwin</u>.

This plan includes an overview of the MSD program, efforts taken to reduce/eliminate discharges from the CSS and the list of proposed improvements to be accomplished by December 31, 2008. All projects associated with this plan have been completed.

3.3.2 Final CSO Long Term Control Plan

MSD submitted for approval the Final CSO LTCP on December 19, 2008, as Volume 2 of the Integrated Overflow Abatement Plan (IOAP). The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, that was entered into public record February 15, 2010.

3.3.3 Green Demonstration Project Update

The Final CSO Long Term Control Plan (Volume 2 of the IOAP) included 19 green demonstration projects with schedules for completion in 2010 and 2011. Currently 12 green demonstration projects have been certified.

During the reporting period, agreements for the planting of trees were delivered to "sustainable" partners, who were deemed to have the organizational support to plant, maintain, and report on the installation of trees. These agreements provide the mechanism for completing the original IOAP commitment of 1000 trees planted per year. A plan for further partnerships to fulfill the IOAP commitment moving forward will be developed and published in the next quarterly report. The following partners have been provided agreements for grant funding associated with urban reforestation:

				Recommended	
Applicant	Date Submitted	Number of Trees	Cost/tree	Amount	Recommended Number of Trees
Metro Parks Phase I - Clifton Heights					
GW/Caperton Swamp	2010	3600	\$21.00	\$40,000.00	1905
Olmsted Conservancy	2011	852	\$46.95	\$40,000.00	852
University of Louisville Phase I	2011	166	\$240.96	\$40,000.00	166
Louisville Downtown Management					
District Phase I	2011	166	\$240.96	\$40,000.00	166
Totals		4784		\$160,000.00	3089





Five demonstration projects were outlined as "dry well" technologies. Throughout the course of 2011, MSD has engaged EPA Underground Injection Control (UIC) in discussions on the level of permitting required for this technology type. Due to the need to develop pilot project areas to examine the short and long term effects of storm water injection into the aquifer under the CSS, an extensive amount of study will need to be performed prior to the issuance of permits or a streamlined permitting process. This dry well pilot area data collection process will make the construction of the five demonstration dry well projects impossible to accomplish prior to December 31, 2011.

The following demonstration project alternatives were proposed to replace the five dry well demonstration projects in earlier quarterly reports:

CI	ERTIFICATION DATES FOR (Sorted By	IOAP GREEN DEMO	NSTRATION PROJECT	ſS
Budget ID	ACD Project Number	IOAP (September 30, 2009) Project Name	Proposed Green Demonstration Project Location (September 30, 2011)	ACD Date
H09444	L_OR_MF_191_S_12_A_A	I-264 AND GIBSON DRY WELL	University of Louisville - Grawemayer Hall Green Parking Lot	31- Dec-11
H09442	L_OR_MF_189_S_12_A	I-264 OFF-RAMP DRY WELL	Speed Art Museum - Infiltration Trench	31- Dec-11
H09443	L_OR_MF_019_S_12_A	I-264 ON-RAMP DRY WELL	CSO 130 - Green Street	31- Dec-11
H09446	L_OR_MF_191_S_12_A_B	JFK MONTESSORI AREA DRY WELL	3rd Street Ventures	31- Dec-11
H09445	L_OR_MF_191_S_12_A_C	RUSSELL LEE DRIVE DRY WELL	Wilson Crossings - Green Parking Lot	31- Dec-11
TBD	ADD. RAIN GARDEN PROJECT	TBD	German/Paristown - Green Street/Rain Garden	31- Dec-11
H11044	Bardstown Rd Presbyterian Church Green Parking Lot	TBD	Brown-Forman Green Roof	31- Dec-11





The following table shows the status of the remaining green demonstration projects:

Proposed Green Demonstration Project Location (July 30, 2011)	Status
University of Louisville - Grawemayer Hall	Project completed prior to December 31, 2011
Green Parking Lot	and to be certified prior to January 30, 2012.
Speed Art Museum - Infiltration Trench	Project completed prior to December 31, 2011
	and to be certified prior to January 30, 2012.
East Washington Street at Adams Street	Project completed prior to December 31, 2011
Green Street	and to be certified prior to January 30, 2012.
3 rd Street Ventures (3 rd Street & Cardinal	Project completed prior to December 31, 2011
Blvd)	and to be certified prior to January 30, 2012.
Wilson Crossings - Green Parking Lot	Project completed prior to December 31, 2011
	and to be certified prior to January 30, 2012.
German/Paristown - Green Street/Rain	Project completed prior to December 31, 2011
Garden	and to be certified prior to January 30, 2012.
Brown Forman Green Roof	Project completed prior to December 31, 2011
	and to be certified prior to January 30, 2012.

3.4 Activity Progress Chart

A Gantt chart showing the progress of the above activities performed during this reporting period, or planned activities for the next two periods is located at the end of this section. The chart is formatted to follow the outline of the project schedule in the IOAP (Refer to IOAP, Volume 1 – Figure 6.3.1). Note that the schedule may show completion dates that are earlier than the dates contained in Figure 6.3.1. These early completion dates represent targets for MSD's project management use, but do not represent a change in schedule commitments. The dates in the approved IOAP, SSDP, ISSDP, and LTCP remain the committed dates for completion of the suite of projects.





ID	MARCO	Activity Name	As Complexity	Physical 0/ Einich	10		011				20	12	
U	IOAP	Activity Name	At Completion Duration	Complete	Fi	Oct I	Nov [Dec J	lan	Feb	Mar	Apr	May
ang Term Control Plan	1071		1758.0	24-Feb-14	3.			<u>~ </u>		100	in ai		
			701.0	30_ biL12	2								
Green Demonstration Proje	ects		761.0	50-50-12	5								1
GERMAN/PARIS TOWN GREEN	STREET RAIN	GARDEN (H11460)	549.0	31-Dec-11 A	3								i i
H100421000		PARIS GERMAN TOWN - PLANNING	548.0	100% 31-Dec-11 A	3	;	:					, ;	
H100421030		PARIS GERMAN TOWN- CONSTRUCTION	94.0	100% 31-Dec-11 A	3	:	:						
H100428050		PARIS GERMAN TOWN- CD CERTIFY	0.0	100% 20-Dec-11 A	3			•					1
GREEN INFRASTRUCTURE PROC	SRAM		791.0	30-Jul-12	3	i							<u> </u>
H091506000		FY11 GREEN INFRASTRUCTURE PROJECTS - CONSTRUCTION	791.0	80% 30-Jul-12	3	:	:		;	:			
GRAWEMAYER HALL PARKING	LOT (H09444)		549.0	31-Dec-11 A	3								-
H094441000		GI 1-264 & GIBSON DRY WELL - PLANNING	549.0	100% 31-Dec-11 A	3	:	:	•					
H094448050		GI 1-264 & GIBSON DRY WELL - CD CERTIFY	0.0	100% 20-Dec-11 A	3			•					i i
SPEED ART MUSEUM INF TREN	CH (H09442)		549.0	31-Dec-11 A	3								í
H094421000		GI I-264 OFF-RAMP DRY WELL - PLANNING	549.0	100% 31-Dec-11 A	3	i	:						
H094428050		GI I-264 OFF-RAMP DRY WELL - CD CERTIFY	0.0	100% 20-Dec-11 A	3			•				. 1	l i
EAST WASHINGTON AT ADAMS	GREEN STREE	T (H09443)	549.0	31-Dec-11 A	3				İ			1	1
H094431000		GI I-264 ON-RAMP DRY WELL - PLANNING	549.0	100% 31-Dec-11 A	3	!	!						
H094438050		GI I-264 ON-RAMP DRY WELL - CD CERTIFY	0.0	100% 19-Dec-11 A	3			•					
3RD STREET AND CAMPBELL VE	NTURES (H09	446)	549.0	31-Dec-11 A	3								
H094461000		GI JFK MONTESSORI AREA DRY WELL - PLANNING	549.0	100% 31-Dec-11 A	3				İ			. 1	1
H094468050		GI JFK MONTESSORI AREA DRY WELL - CD CERTIFY	0.0	100% 31-Dec-11 A	3			•	1			1	i i
WILSON CROSSING GREEN PAR	KING LOT (HO	9445)	549.0	31-Dec-11 A	3								
H094451000		GI RUSSELL LEE DRIVE DRY WELL - PLANNING	549.0	100% 31-Dec-11 A	3	-	_						
H094458050		GI RUSSELL LEE DRIVE DRY WELL - CD CERTIFY	0.0	100% 31-Dec-11 A	3			•	i				1
BROWN FORMEN GREEN ROOF	(H11044)		153.0	31-Dec-11 A	3	1			1			. 1	i i
H095639070		ADDITIONAL RAIN GARDEN - PLANNING	153.0	100% 31-Dec-11 A	3								i i
H095639080		ADDITIONAL RAIN GARDEN - CD CERTIFY	0.0	100% 31-Dec-11 A	3			•					
ray Infrastructure Project	5		1756.0	24-Feb-14	3								
ADAMS STREET STORAGE BASI	N		547.0	30-Jun-12	3				1				i i
H091352000		ADAMS STREET STORAGE BASIN - DESIGN	547.0	10% 30-Jun-12	3								1
H091353000		ADAMS STREET STORAGE BASIN - EASEMENT	90.0	0% 30-Jun-12	3								
CSO 123 DOWNSPOUT DISCON	NECTION		914.0	30-Dec-12	3								
1042472000		DOWNSPOUT DISCONNECT CSO 123 - DESIGN	914.0	30% 30-Dec-12	3	i	i		i	i			-
CSO 058 SEWER SEPARATION			578.0	30-Jun-12	3								
H091302000		CSO 58 SEWER SEPARATION - DESIGN	578.0	5% 30-Jun-12	3	i	i		i	i			1
H091303000		CSO 58 SEWER SEPARATION - EASEMENT	90.0	0% 30-Jun-12	3								
CSO 093 SEWER SEPARATION			412.0	30-Jul-12	3							1	
H091432000		CSO 93 SEWER SEPARATION - DESIGN	412.0	5% 30-Jul-12	3	:	:		:	:			1
H091433000		CSO 93 SEWER SEPARATION - EASEMENT	273.0	5% 30-Jul-12	3					:			
CSO 140 SEWER SERADATION			551.0	31-Dec-12	3								[
H091222000		CSO 140 SEWER SEPARATION - DESIGN	551.0	5% 31-Dec-12	3		1		1				1
H091223000		CSO 140 SEWER SEPARATION - EASEMENT	428.1	5% 31-Dec-12	3	j,	:		:	:		;	
CSO 160 SEWER SERADATION			450.0	30.Sep.12	3				1			1	
H001342000		CSO 180 SEWER SEPARATION - DESIGN	450.0	5% 30-Sep-12	2								L
		COUNTRY CENTER OF ARCHIOR - DEDIGN	1844.0	20. Dec. 12	3				i	I		1	
LIDO1218000		CSO 208 SEWER SERARATION CONSTRUCTION	1844.0	25% 20 Dec 12	2	<u> </u>							í
H001212000		COURSEWER SEPARATION - CONSTRUCTION	1044.0	20% 3U-Dec-13	3	;	:					. 1	
H001312000		COURSEWER SEPARATION - DESIGN	890.0	00% 10-Jan-12	3	:	:						
HU81313000		GOU 200 DEWER DEPARATION - EADEMENT	257.4	10% 30-Jun-12	3	1	1		1				<u>i</u>





rity ID	MSD	Activity Name	At Completion	Physical % Finish	IC
	IOAP		Duration	Complete 10 km 12	Fi
I-64 AND GRINSTEAD DRIV	E STORAGE BASIN	LAA & ODINGTEAD STODAGE DAGIN. FASEMENT	204.0	10-Jun-12	3
H091213000		1-04 & GRINSTEAD STORAGE BASIN - EASEMENT	204.0	10% 10-Jun-12	3
H091212901		1-04 & GRINSTEAD STORAGE BASIN - DESIGN 30% COMPLETE	182.0	30% 30-Mar-12	3
HU91212902		1-04 & GRINSTEAD STORAGE BASIN - DESIGN 100% COMPLETE	01.0	0% 30-May-12	3
H091214000		1-04 & GRINSTEAD STORAGE BASIN - AD DATE	1.0	0% 10-Jun-12	3
LOGAN STREET AND BRECH	ENRIDGE ST STORA		1040.0	31-Oct-13	3
H091422000		LOGAN ST & BRECKENRIDGE ST STORAGE BASIN - DESIGN	941.0	100% 02-Dec-11 A	3
HU91424510		LOGAN ST & BRECKENRIDGE ST STORAGE BASIN - DESIGN	854.0	5% 31-Oct-13	3
H091423000		LOGAN ST& BRECKENRIDGE ST STORAGE BASIN - EASEMENT	304.0	10% 28-Sep-12	3
NIGHTINGALE PUMP STAT	ON REPLACEMENT		719.0	24-Feb-14	3
H091402000		NIGHTINGALE PUMP STATION REPLACEMENT - DESIGN	719.0	0% 24-Feb-14	3
PADDY'S RUN WET WEATH	ER TREATMENT FA	CILITY	554.0	07-Aug-12	3
H091242902		PADDY'S RUN WW TREATMENT FACILITY - PRELIMINARY SITE CHARACT	400.0	90% 06-Mar-12	3
H091243010		PADDY'S RUN WW TREATMENT FACILITY - PRELIMINARY DESIGN MEMOS	400.0	90% 06-Mar-12	3
H095639040		PAUDY'S RUN WWITREATMENT FACILITY - DESIGN 30%	42.0	0% 20-Mar-12	3
H095639050		PADDY'S RUN WW TREATMENT FACILITY - DESIGN 60%	70.0	0% 29-May-12	3
H091242911		PADDY'S RUN WW TREATMENT FACILITY - DESIGN 90%	70.0	0% 07-Aug-12	3
STORY AVENUE AND MAIN	STREET STORAGE	BASIN	496.0	10-Jun-12	3
H091272901		STORY AVE & MAIN ST STORAGE BASIN- COMPLETE ALTERNATIVE STUDY	303.0	100% 30-Nov-11 A	3
H091272902		STORY AVE & MAIN ST STORAGE BASIN- COMPLETE REPORT AND SELECTIVE ALTE	30.0	0% 30-Jan-12	3
H091272000		STORY AVE & MAIN ST STORAGE BASIN- DESIGN	121.0	0% 30-Apr-12	3
H091273000		STORY AVE & MAIN ST STORAGE BASIN - EASEMENT	90.0	0% 30-Apr-12	3
H091274000		STORY AVE & MAIN ST STORAGE BASIN - AD DATE	1.0	0% 08-May-12	3
H091274050		STORY AVE & MAIN ST STORAGE BASIN - BID OPEN	0.0	0% 10-Jun-12*	3
Flood Pump Station Pro	jects		837.0	04-Apr-13	3
4TH STREET FLOOD PUMP	STATION		472.0	18-May-12	3
H084776000		4TH ST FPS DWO ELIMINATION - CONSTRUCTION	442.0	80% 18-Apr-12	3
H084776900		4TH ST FPS DWO ELIMINATION - SUBST. COMPL	0.0	0% 19-Feb-12	3
H084778050		4TH ST FPS DWO ELIMINATION - CD CERTIFY	0.0	0% 19-Mar-12	3
H084776950		4TH ST FPS DWO ELIMINATION - AS-BUILTS	0.0	0% 18-May-12	3
17TH STREET FLOOD PUMI	STATION		732.0	04-Apr-13	3
H091382000		17TH ST FPS DWO ELIMINATION - DESIGN	357.0	80% 25-Mar-12	3
H091383000		17TH ST FPS DWO ELIMINATION - EASEMENT	364.0	0% 04-Apr-13	3
27TH STREET FLOOD PUMI	STATION		650.9	30-Sep-12	3
H091262000		27TH ST FPS DWO ELIMINATION - DESIGN	528.0	70% 30-May-12	3
H091264000		27TH ST FPS DWO ELIMINATION - AD DATE	1.0	0% 01-Jan-12	3
H091262901		27TH ST FPS DWO ELIMINATION - PROJECT MANAGEMENT	92.0	0% 30-Sep-12	3
34TH STREET FLOOD PUMI	STATION		456.0	15-May-12	3
H084786000		34TH ST FPS DWO ELIMINATION - CONSTRUCTION	426.0	60% 15-Apr-12	3
H084786900		34TH ST FPS DWO ELIMINATION - SUBST COMPL	0.0	0% 17-Mar-12	3
H084788050		34TH ST FPS DWO ELIMINATION - CD CERTIFY	0.0	0% 15-Apr-12	3
H084786950		34TH ST FPS DWO ELIMINATION -AS-BUILTS	0.0	0% 15-May-12	3
SHAWNEE FLOOD PUMP S	TATION		734.0	22-Dec-12	3
H091362000		SHAWNEE FPS DWO ELIMINATION - DESIGN	498.0	60% 30-Apr-12	3
H091364000		SHAWNEE FPS DWO ELIMINATION - AD DATE	1.0	0% 15-Jun-12	3
H091362902		SHAWNEE FPS DWO ELIMINATION - MEETINGS	178.0	0% 22-Dec-12	3
	o Blon		1629.0	15-Jan-14	3.





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ty ID	MSD Activity Name IOAP	At	Completion Duration	Physical % Finish Complete	IC Fi
Floyds Fork Area	· · ·		305.0	30-Dec-12	3
EDEN CARE PS SSO INVESTIGAT	DN		305.0	30-Dec-12	3
H091704000	EDEN CARE PUMP STATION ILS - AD DATE		1.0	0% 01-Mar-12	3
H091704050	EDEN CARE PUMP STATION ILS - BID OPEN	1	0.0	0% 01-Apr-12*	3
H091704500	EDEN CARE PUMP STATION ILS - AWARD		0.0	0% 15-Apr-12*	3
H091706000	EDEN CARE PUMP STATION ILS - CONSTRU	JCTION	190.0	0% 30-Dec-12*	3
Jeffersontown Area			1116.0	03-Apr-13	3
BILLTOWN ROAD PS & FM			815.0	06-Jun-12	3
E933573000	BILLTOWN ROAD P.S., F.M. & INT - EASEMEN	NTS	580.0	100% 15-Oct-11 A	3
E933572923	BILLTOWN RD PS FM & INT - 90% DESIGN		533.0	100% 30-Nov-11 A	3
E933576000	BILLTOWN ROAD P.S., F.M., & INT - CONSTR	UCTION	342.0	30% 06-Jun-12	3
E933576900	BILLTOWN ROAD P.S., F.M. & INT - SUBST. C	OMPLETE	0.0	0% 08-May-12	3
CHENOWETH HILLS PS ELIMINA	ON		824.0	01-Oct-12	3
E933532000	CHENOWETH RUN INTERCEPTOR SEC. 2 - I	DESIGN	824.0	95% 01-Oct-12	3
E933534060	CHENOWETH RUN INTERCEPTOR SEC. 2 -	EASEMENTS	429.0	0% 01-Sep-12	3
CHENOWETH HILLS WOTC ELIM	ATION & PS IMPROVEMENTS		478.0	20-Jun-12	3
H092382000	CHEN HILLS WWTP ELIMINATION & PUMP S	TATION ELIMINATION - DESIGN	221.0	100% 07-Oct-11 A	3
H092383000	CHEN HILLS WWTP ELIMINATION & PUMP S	STATION ELIMINATION - EASEMENT	152.0	0% 01-Jun-12	3
H092384000	CHEN HILLS WWTP ELIMINATION & PUMP S	STATION ELIMINATION - AD DATE	1.0	0% 20-Jun-12	3
IFFEFRSON FORCE MAIN			854.0	01-Jan-13	3
H114242000	GRAND AVE PS - DESIGN		854.0	20% 01-Jan-13	3
IFFFFRSONTOWN WOTC FLIMIT	ATION		1004.0	30-Mar-13	3
H072932000	JEFFERSONTOWN TP ELIMINATION - DESIG	3N	763.0	50% 01-Aug-12	3
H072933000	JEFFERSONTOWN TP ELIMINATION - EASE	MENTS	364.0	0% 30-Mar-13	3
KLONDKE INTERCEPTOR			946.0	03-Apr-13	3
H091992000	KLONDIKE INTERCEPTOR - DESIGN		548.0	90% 01-Mar-12	3
H091993000	KLONDIKE INTERCEPTOR - EASEMENT		307.0	0% 03-Apr-13	3
LIDDED BILLTOWN DOAD INTED	9709		915.0	31-Dec-12	3
E022942000	UPPER BILLTOWN ROAD INTERCEPTOR-DE	SIGN	915.0	30% 31-Dec-12	3
Rearrance Creek Middle For	Area		899.0	15-Jan-14	3
Beargrass Creek Middle For	Area		01.0	20 Oct 11 A	2
ANCHOR ESTATES- VANNAH PS		CONSTRUCTION	01.0	100% 20 Oct 11 A	2
H091840000	ANCHOR ESTATES ILS & PS ELIMINATION -		91.0	100% 30-Oct-11 A	3
HU91848050	ANCHOR ESTATES ILS & PS ELIMINATION -	CD CERTIFICATION	0.0	100% 15-Oct-11 A	3
HURSTBOURNE I&I INVESTIGAT	DN & REHABILITATION	CTD.	191.0	10-Fe0-12	3
H092190000	HURSTBOURNE I&I INVEST & REHAB - CON	STR COMP.	191.0	95% 10-Feb-12	3
H092190900	HURSTBOURNE I&I INVEST & REHAB - SUB	STCOMP	0.0	100% 27-Dec-11 A	3
H092198050	HURSTBOURNE I&TINVEST & REHAB - CD C	ERTIFY	0.0	100% 27-Dec-11 A	3
UMF #1 - BUECHEL BASIN			815.0	10-Jan-14	3
HU72884000	BUECHEL SURGE BASIN - AD DATE		1.0	100% 24-Oct-11 A	3
HU/2884030	BUECHEL SURGE BASIN - BID OPEN		0.0	100% 08-Nov-11 A	3
HU/2664000	BUECHEL SURGE BASIN - AWARD		700.0	100% 28-NOV-11 A	3
HU/2880000	BUECHEL SURGE BASIN - CONSTRUCTION		729.0	0% 10-Jan-14	3
Pond Creek Area			242.0	30-Mar-12	3
CHARLESWOOD INTERCEPTOR	TENSION		60.0	30-Mar-12	3
C941034000	CHARLESWOOD SUBD. INT. #23 - AD DATE		0.0	0% 31-Jan-12	3
C941034050	CHARLESWOOD SUBD. INT. #23 - BID OPEN	1	0.0	0% 29-Feb-12	3
C941034500	CHARLESWOOD SUBD. INT. #23 - AWARD		0.0	0% 30-Mar-12	3





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y ID	MSD IOAP	Activity Name	At Completion Duration	Physical % Finish Complete	IC Fi Oc
EDSEL PS I/I INVESTIGATION 8	REHABILITATI	ION	91.0	31-Oct-11 A	3
H091976000		EDSEL PUMP STATION I&I INVESTIGATION - CONSTRUCTION	91.0	100% 31-Oct-11 A	3
GOVERNMENT CENTER PS ELI	MINATION		0.0	31-Dec-11 A	3
H091946950		GOVERNMENT CENTER PS ELIMINATION - AS-BUILTS	0.0	100% 31-Dec-11 A	3
LANTANA PS I/I INVESTIGATIO	ON & REHABILIT	TATION	113.0	31-Jan-12	3
H091934500		LANTANA PUMP STATION WET WEATHER STORAGE - AWARD	0.0	100% 10-Oct-11 A	3 🔶
H091936000		LANTANA PUMP STATION WET WEATHER STORAGE - CONSTRUCTION	92.0	99% 31-Jan-12	3
H091936900		LANTANA PUMP STATION WET WEATHER STORAGE - SUBSTANTIALLY COMPLETE	0.0	100% 29-Dec-11 A	3
H091938050		LANTANA PUMP STATION WET WEATHER STORAGE - CD CERTIFICATION	0.0	100% 29-Dec-11 A	3
Ohio River Force Main Are	a		1281.0	01-Jan-14	3
DERINGTON CT PS I/I INVESTI	GATION & REH	ABILITATION	424.0	30-Mar-12	3
H091902000		DERINGTON CT PUMP STATION I&I INVESTIGATION - DESIGN	303.0	100% 01-Dec-11 A	3
H091904500		DERINGTON CT PUMP STATION 1&1 INVESTIGATION - AWARD	0.0	100% 15-Dec-11 A	3
H091906000		DERINGTON CT PUMP STATION I& INVESTIGATION - CONSTRUCTION	107.0	30% 30-Mar-12	3
HARBOD'S CREEK INTERCEPT	ac		490.0	02-Jul-12	3
D942072912		HARRODS CRK FM&I PH. I - 100% DESIGN	428.0	10% 01-May-12	3
D942072008		EPSC PLANS	184.0	0% 02-10-12	3
D942073000		HARRODS CRK INT PHI L. FASEMENT	00.0	0% 30-Mar-12	3
D042074000			1.0	0% 01 hrs 12	2
0942074000		HARRODS CREINT PH. 1- AD DATE	1.0	0% 01-Jun-12	3
HARROD'S CREEK INTERCEPTO	DR PHASE 2		1030.0	30-Apr-13	3
D002492000		HARRODS CRK INT PHASE II - DESIGN	700.0	90% 30-May-12	3
D002492906		HARRODS CRK INT PHIL- UPDATE & FINALIZE PLANS	670.0	90% 30-Apr-13	3
D002492908		HARRODS CRK INT PH II - CONSTRUCTION DOCUMENTS	335.0	90% 30-May-12	3
D002493000		HARRODS CRK INT PHASE II - EASEMENTS	401.0	50% 02-Nov-12	3
HUNTING CREEK NORTH			640.0	31-Mar-12	3
A095582000		NORTH HUNTING CREEK PS & FM - DESIGN	640.0	90% 31-Mar-12	3
A095582904		NORTH HUNTING CREEK PS & FM - 90% SUBMITTAL	380.0	100% 31-Dec-11 A	3
RIVER ROAD INTERCEPTOR			637.0	28-Mar-13	3
D942103000		RIVER ROAD INTERCEPTOR - EASEMENTS	214.0	90% 30-Jan-12	3
D942104050		RIVER ROAD INTERCEPTOR - BID OPENING	0.0	100% 20-Oct-11 A	3
D942104500		RIVER ROAD INTERCEPTOR - AWARD	0.0	100% 14-Nov-11 A	3
D942106000		RIVER ROAD INTERCEPTOR - CONSTRUCTION	439.0	0% 28-Mar-13	3
SHADOW WOOD			1281.0	01-Jan-14	3
A095512000		SHADOW WOOD - DESIGN	1281.0	30% 01-Jan-14	3
TIMBERLAKE AND HUNTING C	REEK SOUTH		640.0	31-Mar-12	3
TBA		TIMBERLAKE AND HUNTING CREEK SOUTH - DESIGN	640.0	60% 31-Mar-12	3
HARROD'S CREEK PUMP STAT	ION		1067.0	01-Jun-13	3
D942062000		HARRODS CREEK P.S. & F.M DESIGN	519.0	100% 01-Dec-11 A	3
D942063000		HARRODS CREEK P.S. & F.M EASEMENT	610.0	90% 01-Jun-13	3
D942062942		HC/PROSPECT AREA STUDY-FINAL DESIGN- 90% MILESTONE	46.0	100% 15-Nov-11 A	3
D942062947		HC/PROSPECT AREA STUDY-RIVER ROAD INTERCEPTOR PLAN UPDATE	0.0	100% 12-Nov-11 A	3
D942062943		HC/PROSPECT AREA STUDY-FINAL DESIGN- 100% MILESTONE	62.0	0% 16-Jan-12	3
Mill Creek Area			907.1	26-May-12	3
min creek Area			007.4	28 May 12	2
EAST ROCKFORD LANE PS REL	OCATION	EAST BOCKEOPD IN BS DELOC 100% DESIGN	807.1	100% 22 Oct 11 A	3
A080812800		EAST ROOKFORD LAVE BE DELOCATION - CONSTRUCTION	090.1	100 /s 22-001-11 A	3
AU90916000		EAST ROCKFORD LANE PS RELOCATION - CONSTRUCTION	330.0	00% 25-Apr-12	3
A090916950		EAST ROCKFORD LANE PS RELOCATION - AS-BUILTS	0.0	0% 26-May-12	3
A090918050		EAST ROCKFORD LANE PS RELOCATION - CD CERTIFY	0.0	0% 26-May-12	3







SHIVELY INTERCEPTOR 66 B002080000 SHIVELY INTERCEPTOR - CONSTRUCTION 55 B002080000 SHIVELY INTERCEPTOR - SUBST. COMPLETE 50 B002080000 SHIVELY INTERCEPTOR - AS-BUILTS 50 B002080000 SHIVELY INTERCEPTOR - CD CERTIFY 10 Combined Sewer System Area 10 HAZELWOOD PS I&I INVESTIGATION & REHABILITATION 11 H0191810000 HAZELWOOD PUMP STATION I&I INVESTIGATION - CONSTRUCTION 11 Small WWTP Area 10 LAKE FOREST PS SSO INVESTIGATION 11 H091734000 LAKE FOREST PUMP STATION IMPROVEMENT - AD DATE H091734000 LAKE FOREST PUMP STATION IMPROVEMENT - BID OPEN H091734000 LAKE FOREST PUMP STATION IMPROVEMENT - CONSTRUCTION H091734000 LAKE FOREST PUMP STATION IMPROVEMENT - CONSTRUCTION H091734500 LAKE FOREST PUMP STATION IMPROVEMENT - CONSTRUCTION H091736000 LAKE FOREST PUMP STATION IMPROVEMENT - CONSTRUCTION HKE'S POINT INTERCEPTOR PROSE 1 77 H07280000 HIKE'S POINT INTERCEPTOR - CONSTRUCTION 51 HKE'S POINT INTERCEPTOR PHASE 2 78 HKE'S POINT INTERCEPTOR PHASE 2 74	19.0 01-Apr-12 7.0 40% 28-Feb-12 0.0 0% 30-Jan-12 0.0 0% 29-Mar-12 0.0 0% 29-Mar-12 0.0 0% 01-Apr-12* 0.0 0% 01-Apr-12* 2.0 31-Oct-11 20 22.0 31-Oct-11 20 12.0 100% 31-Oct-11 12.0 100% 31-Oct-11 10.0 0% 01-Mar-12 0.0 0% 01-Apr-12* 0.0 0% 01-Apr-12* 0.0 0% 15-Apr-12* 0.0 0% 13-Sep-12 10.0 0% 30-Jun-12* 10.0 0% 30-Jun-11 1.0 100% 30-Nov-11 1.0 100% 30-Jun-12* 0.0 0% 30-Jun-12* 0.0 0% 30-Jun-12* 0.0 0% 30-Jun-12* 10.0 0%<	3 3 3 3 3 4 3 4 3 3 3 3 3 3 3 3 3 3 3 3
B062086000 SHIVELY INTERCEPTOR - CONSTRUCTION 55 B062086000 SHIVELY INTERCEPTOR - SUBST. COMPLETE 50 B062086050 SHIVELY INTERCEPTOR - AS-BUILTS 50 B062086050 SHIVELY INTERCEPTOR - CD CERTIFY 50 Combined Sewer System Area 10 HAZEWOOD PS ISI INVESTIGATION & REHABILITATION 10 H001816000 HAZELWOOD PUMP STATION I& INVESTIGATION - CONSTRUCTION 10 Small WWTP Area 11 LAKE FOREST PS 550 INVESTIGATION 10 H001734000 LAKE FOREST PUMP STATION IMPROVEMENT - AD DATE 11 H001734000 LAKE FOREST PUMP STATION IMPROVEMENT - AD DATE 11 H001734000 LAKE FOREST PUMP STATION IMPROVEMENT - AD DATE 11 H001734000 LAKE FOREST PUMP STATION IMPROVEMENT - CONSTRUCTION 12 Interim SSDP Projects (Derek R. Guthrie WQTC Project Schedules are Under Revision) 13 HIKE'S POINT INTERCEPTOR - CONSTRUCTION 55 HIKE'S POINT INTERCEPTOR - CONSTRUCTION 55 HIKE'S POINT INTERCEPTOR - SUBST COMPLETE 71 H072866900 HIKES POINT INTERCEPTOR - AS-BUILTS 55 HIKE'S POINT INTERCEPTOR PHASE 2 34 34<	7.0 40% 28-Feb-12 0.0 0% 30-Jan-12 0.0 0% 29-Mar-12 0.0 0% 01-Apr-12* 2.0 31-Oct-11 20 2.0 31-Oct-11 20 2.0 100% 31-Oct-11 2.0 100% 31-Oct-11 2.0 100% 31-Oct-11 2.0 100% 31-Oct-11 7.0 13-Sep-12 20 1.0 0% 01-Mar-12 0.0 0% 15-Apr-12* 0.0 0% 13-Sep-12 1.0 0% 30-Jun-12* 9.0 100% 30-Jun-12 9.0 100% 30-Nov-11 1.0 100% 30-Jun-12 9.0 0% 30-Jun-12* 0.0 0% 30-Jun-12* 0.0 0% 30-Jun-12* 9.0 0% 30-Jun-12*	3 3 3 4 3 4 3 4 3 3 3 3 3 3 3 3 3 3 3 3
B06208000 SHIVELY INTERCEPTOR - SUBST. COMPLETE B062080900 SHIVELY INTERCEPTOR - AS-BUILTS B062080900 SHIVELY INTERCEPTOR - CD CERTIFY Combined Sewer System Area 10 HAZELWOOD PS I&LI INVESTIGATION & REHABILITATION HAZELWOOD PUMP STATION I& INVESTIGATION - CONSTRUCTION MAZELWOOD PUMP STATION I&LINVESTIGATION - CONSTRUCTION Son INVESTIGATION HAZELWOOD PUMP STATION I& INVESTIGATION - CONSTRUCTION Son INVESTIGATION HAZELWOOD PUMP STATION I& INVESTIGATION - CONSTRUCTION Son INVESTIGATION HAZELWOOD PUMP STATION IMPROVEMENT - AD DATE HO01734000 LAKE FOREST PUMP STATION IMPROVEMENT - AD DATE H011734000 LAKE FOREST PUMP STATION IMPROVEMENT - AD DATE H011734000 LAKE FOREST PUMP STATION IMPROVEMENT - AD DATE H011734000 LAKE FOREST PUMP STATION IMPROVEMENT - AD DATE H011734000 LAKE FOREST PUMP STATION IMPROVEMENT - AD DATE H011734000 LAKE FORES	0.0 0% 30-Jan-12 0.0 0% 29-Mar-12 0.0 0% 01-Apr-12* 2.0 31-Oct-11 2.0 31-Oct-11 2.0 31-Oct-11 2.0 31-Oct-11 2.0 100% 31-Oct-11 2.0 100% 31-Oct-11 7.0 13-Sep-12 10 0.0 0% 01-Mar-12 0.0 0% 15-Apr-12* 0.0 0% 13-Sep-12 1.0 27-Sep-12 20 2.0 30-Jun-12 9.0 1.0 100% 30-Nov-11 1.0 100% 30-Jun-12 9.0 100% 30-Jun-12 9.0 0% 30-Jun-12* 9.0 0% 30-Jun-12* 9.0 0% 30-Jun-12*	3 3 3 A 3 A 3 A 3 A 3 A 3 3 3 3 3 3 3 2 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2
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H091738000LAKE FOREST PUMP STATION IMPROVEMENT - CONSTRUCTION13Interim SSDP Projects (Derek R. Guthrie WQTC Project Schedules are Under Revision)84HIKE'S POINT INTERCEPTOR PHASE 174H072886000HIKES POINT INTERCEPTOR - CONSTRUCTION55H072862908HIKES POINT INTERCEPTOR - ATTEND PREBID PHASE 2H072866900HIKES POINT INTERCEPTOR - SUBST COMPLETE64H072866900HIKES POINT INTERCEPTOR - AS-BUILTS34HIKE'S POINT INCEPTOR PHASE 234HIKE'S POINT INCEPTOR PHASE 234HIND266000HIKES POINT INTERCEPTOR PHASE II- CONSTRUCTION34HIND26508000HIKES POINT INTERCEPTOR PHASE II-	0.0 0% 13-Sep-12 11.0 27-Sep-12 12.0 30-Jun-12 19.0 100% 30-Nov-11 1.0 100% 01-Oct-111 0.0 0% 30-Jun-12* 0.0 0% 30-Jun-12* 0.0 0% 30-Jun-12* 0.0 0% 30-Jun-12*	3 2 A 2 A 2 A 2 2 2 2
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HIKE'S POINT INCEPTOR PHASE 2 34 HIKE'S POINT INTERCEPTOR PHASE II- CONSTRUCTION 34 SOUTHEAST DIVERSION STRUCTURE & INTERCEPTOR PHASE II- CONSTRUCTION 34 SOUTHEAST DIVERSION STRUCTURE & INTERCEPTOR 64	9.0 27-Sep-12	
H110266000 HIKES POINT INTERCEPTOR PHASE II- CONSTRUCTION 34 SOUTHEAST DIVERSION STRUCTURE & INTERCEPTOR PHASE II- CONSTRUCTION 34 LINESSEED 0		2
SOUTHEAST DIVERSION STRUCTURE & INTERCEPTOR 64	9.0 30% 27-Sep-12	2
	2.0 11-Jun-12	1
HU63060000 SOUTHEASTERN INTERCEPTOR RELIEF SEWER - CONSTR 0	2.0 80% 12-May-12	1
H083586950 SOUTHEASTERN INTERCEPTOR RELIEF SEWER - AS-BUILT	0.0 0% 11-Jun-12	1
Other Projects 124	8.0 30-Dec-12	3
CPE/CCP MODIFICATIONS TO WOTC	3.0 31-Dec-11	A 3
H082212000 CPE/CCP MODIFICATIONS TO WWTP - DESIGN 88	3.0 100% 31-Dec-11	A 3
H092218050 CPE/CCP MODIFICATIONS TO WWTP - CD CERTIFY	0.0 100% 19-Dec-11	A 3
	5.0 30-Dec-12	3
H092056000 FY12 I/I REDUCTION PROGRAM - CONSTRUCTION 36	5.0 0% 30-Dec-12	3







SECTION 4: Program Activities for Public Outreach, Education, Notification and Participation

4.1 Public Notification Program

MSD produced and distributed a number of products aimed at notifying the community of the objectives of Project WIN and how to lessen the risks associated with coming into contact with sewage overflows.

4.2 Public Education Programs

MSD has developed a public education program aimed at disseminating information to the public on MSD's primary business functions with emphasis on wastewater, storm water and flood protection. Efforts continued to utilize various media outlets, including television, radio, magazines, and newspapers to serve as a conduit for circulating information to the public.

During the reporting period, MetroTV aired programs detailing the IOAP Public Input Meeting, the MSD green project at the Mazzoli Federal Building, and the expansion at DRG WQTC.

4.3 Public Outreach Programs

MSD has developed a public education program aimed at expanding the public's knowledge on MSD's primary business functions of wastewater, storm water and flood protection, with an emphasis on Project WIN Program elements.

4.3.1 IOAP Project and Program Meetings

MSD facilitates meetings for the Wet Weather Team (WWT), and the public to review regulatory commitments, update progress on projects and initiatives, and to gather public input on efforts. During the reporting period, MSD facilitated the following meetings:

- Provided information to the WWT at a WWT meeting on November 29, 2011.
- Facilitate a sewer overflow abatement project review and input public meeting. Public notice for the meeting will be provided by press release, web blasts, and an article in the Courier Journal on January 18, 2012. This meeting will include formal presentations on these topics:
 - Proposed combined sewer overflow and sanitary sewer overflow project modifications;
 - I-64 and Grinstead Drive storage basin project update and request for public input;
 - Individual issues and/or concerns with DRG WQTC and Hite Creek Action Plans and other sewer overflow abatement projects currently in planning, design, construction and drainage.





SECTION 5: Capacity Management Operations and Maintenance Report

Per Paragraph 24.c of the Amended Consent Decree, the Capacity Management Operations and Maintenance (CMOM) Self Assessment Report was submitted to EPA and KDEP on February 10, 2006. MSD received a letter of approval on August 22, 2006. The approved CMOM document can be viewed on the MSD Project WIN website www.msdlouky.org/projectwin.

The primary objectives of CMOM are as follows:

Capacity – Ensuring that adequate wet and dry weather capacity is maintained in existing and new infrastructure

Management – Implementing programs in support of operations and maintenance activities required to ensure KPDES permit compliance and promote public health by remedying design, construction and operational deficiencies; training staff; and performing activities in a safe manner

Operations – Implementing written standard operating procedures to operate system components as designed to meet permit requirements

Maintenance – Implementing systematic, comprehensive asset maintenance and rehabilitation programs to prevent overflows, maximize system reliability and ensure system sustainability

Although the program implementation deadlines from the CMOM Self Assessment Report were previously met, MSD continued to enhance the activities listed below during this reporting period. Highlights of the CMOM program implementation over this reporting period are outlined below.

5.1 Management Programs

M-E-9 Infrastructure Rehabilitation

Activity details are provided in the CMOM schedule provided as **Section 5.5 – CMOM Activity Schedule**.

5.2 **Operations Programs**

<u>O-A-1 Pump Station Operations Programs (Routine Operating Programs)</u> Activity details are provided in the CMOM schedule provided as **Section 5.5 – CMOM Activity Schedule**.

O-A-2 Pump Station Operations Programs (Emergency Operating Programs)

Activity details are provided in the CMOM schedule provided as **Section 5.5 – CMOM** Activity Schedule.





5.3 Comprehensive Performance Evaluations and Composite Correction Plans (CPE/CCP)

Per requirements of MSD's 2009 Amended Consent Decree, MSD implemented a Comprehensive Performance Evaluation (CPE) and Composite Correction Plan (CCP) program for the District's water quality treatment centers (WQTCs). Although the IOAP CPE assessments defined specific WQTC improvements to be completed by December 31, 2011, MSD will continue to implement CPE/CCP activities as part of the District's CMOM Program. This section will list such activities per WQTC as they occur each reporting period and will be outlined below.

5.3.1 Hite Creek Water Quality Treatment Center

During this reporting period, MSD has continued working on the Facilities Plan Update, establishing the study area and projecting the flow and loads from the service area. During the next reporting period, the alternative analysis for both the collection and treatment systems will be created and MSD will begin scheduling public outreach meetings.

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM** Activity Schedule.

5.3.2 Floyds Fork Water Quality Treatment Center

Construction of the Phase 2 Expansion of the Floyds Fork WQTC continued in this reporting period with excavation for the two new clarifiers and three sludge holding tanks underway. During the next reporting period, the new influent force main will be operational, along with the structures for the sludge holding tanks and secondary clarifiers. The expansion will provide an average daily design capacity of 5.25 MGD at the current site.

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.3 Derek R. Guthrie Water Quality Treatment Center

During this reporting period, MSD has continued working on the Facilities Plan Update, establishing the study area. During the next reporting period, the flow and loads will be finalized and the alternative analysis for both the collection and treatment systems will begin. MSD will begin scheduling public outreach meetings.

Schedules for CPE/CCP related capital projects are provided in Section 5.4 – CMOM Activity Schedule.

5.3.4 Cedar Creek Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in Section 5.4 – CMOM Activity Schedule.

5.3.5 Prospect Area Water Quality Treatment Center Updates

Submitted the elimination plan for the five WQTCs serving Prospect (Timberlake, Hunting Creek North, Hunting Creek South, Ken Carla, and Shadow Wood), to EPA and KDEP on March 31, 2009. Received approval of this plan on September 24, 2009, and work is proceeding on the projects defined in the IOAP. See **Section 3 – Program Activities for**





Discharge Abatement Plans for an update on the design and construction of the projects that make up the elimination plan for the Prospect Area WQTCs.

5.3.5.1 Timberlake Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

- During this reporting period, the Timberlake Lagoon Elimination Project was substantially completed on December 2, 2011.
- Began the planning phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, draft design drawings and specifications will be created. It is anticipated that the project will be advertised for construction by June 30, 2012.

5.3.5.2 Hunting Creek North Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

• Began the planning phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, draft design drawings and specifications will be created. It is anticipated that the project will be advertised for construction by June 30, 2012.

5.3.5.3 Hunting Creek South Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

- During this reporting period, the Hunting Creek South Lagoon Elimination Project was substantially completed on November 19, 2011.
- Began the planning phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, draft design drawings and specifications will be created. It is anticipated that the project will be advertised for construction by June 30, 2012.





5.3.5.4 Ken Carla Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM** Activity Schedule.

• Began the planning phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, draft design drawings and specifications will be created. It is anticipated that the project will be advertised for construction by June 30, 2012.

5.3.5.5 Shadow Wood Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM** Activity Schedule.

• Began the planning phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, draft design drawings and specifications will be created. It is anticipated that the project will be advertised for construction by June 30, 2012.

5.3.6 Jeffersontown Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

5.3.7 Starview Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM Activity Schedule**.

• Began the planning phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, draft design drawings and specifications will be created. It is anticipated that the project will be advertised for construction by June 30, 2012.

5.3.8 Berrytown Water Quality Treatment Center

Schedules for CPE/CCP related capital projects are provided in **Section 5.4 – CMOM** Activity Schedule.





• Began the planning phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, draft design drawings and specifications will be created. It is anticipated that the project will be advertised for construction by June 30, 2012.

5.3.9 Chenoweth Hills Water Quality Treatment Center

CMOM related capital projects will be provided in the schedule provided as **Section 5.4 – CMOM Activity Schedule**.

• Began the planning phase to install flow pacing equipment to optimize the disinfection process at the plant. The equipment will ensure a constant feed of chlorine (CL2) and sulfur dioxide (SO2) regulated by effluent flow rates. This will reduce operating costs by preventing chemical overdosing and regulating potable water use. The equipment will also include automatic vacuum valves drawing from redundant chemical sources and telemetry notification to ensure the process does not run out of chemicals. During the next reporting period, draft design drawings and specifications will be created. It is anticipated that the project will be advertised for construction by June 30, 2012.

5.3.10 Other Water Quality Treatment Centers

CMOM related capital projects will be provided in the schedule provided as **Section 5.4** – **CMOM Activity Schedule**.

- McNeely Lake WQTC Completed review of several alternatives to eliminate the plant. A final gravity solution alternative was selected as the elimination plan. MSD has final construction drawings for the gravity elimination of the plant. The plant flows will be diverted to the existing Washington Green Pump Station which will require expansion. The pump station expansion and plant elimination costs are not currently in the approved MSD budget. A developer is proposing to expand this pump station as part of a future development project. If the development occurs, MSD will review the current budget for funds to eliminate the plant. During the next reporting period, MSD will also continue to monitor the structural condition of the plant and perform remedial activities as needed coordinating with the proposed elimination schedule.
- <u>Silver Heights WQTC</u> Completed the review of several alternatives to eliminate the plant. A gravity solution alternative was selected and budget was allocated creating a capital project to eliminate the plant. During the next reporting period, MSD will continue preliminary design of the elimination project.

5.4 CMOM Activity Schedule

CMOM capital project milestones for the period of October 1, 2011, through December 31, 2011, as well as a look-ahead for the period of January 1, 2011, through June 30, 2011, are provided in the schedule below.





MSD CMOM FY11 Annual Commitments Schedule	e (01 October 2011 - 30 June 2012)
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Acti	vity ID	Activity Name	Start	Finish		2011			
	,				Oct	Nov	Dec	Jan	Fe
	CMOM FY ANNUAL	L REPORT COMMITMENTS FINAL	04-Oct-10 A	31-Dec-12					
	- M-F-9 Infrastructu	re Rebabilitation	04-Oct-10 A	31-Dec-12					
	Shadow Wood I/LB	ababilitation	05-Jul-11 A	01-Nov-11 A					
	A2690	Ad	05-Jul-11 A						1
	A2700	Bid Opening	02-Aug-11 A						
	A2710	Construction	01-Sep-11 A	01-Nov-11 A					
	A2720	Complete		01-Nov-11 A		•			
	Goose Creek Pump	Station Grinder Installation Project (E07070)	23-Nov-10 A	23-Nov-11 A		T			
	A1690	Warranty Period	23-Nov-10 A	23-Nov-11 A					
	Lee Ann Way Pump	Station Grinder Installation Project (F07069)	01-Feb-11 A	01-Feb-12					
	A1850	Warranty Issues - Replace Blower	01-Feb-11 A	30-Jul-11 A					
	A2060	Warranty Period	02-Feb-11 A	01-Feb-12					
	Brandeis Viaduct #2	Pump & Controls Modifications Project (E04192)	01-May-11 A	01-May-12					Ţ
	A1720	Warranty Period	01-May-11 A	01-May-12					
	Shively Pump Statio	on Grinder Replacement Project Planning (H10151)	01-Feb-11 A	30-Nov-11 A					
	A1860	Construction - Substantial Completion	01-Feb-11 A	21-Sep-11 A					
	A1870	Construction - Final Completion	01-Feb-11 A	30-Nov-11 A					1
	A2150	Warranty	21-Sep-11 A	21-Sep-11 A					
	Fairmount Road Pu	mp Station Expansion Project (E00303)	20-Jan-11 A	30-Mar-12					
	A1880	Construction - Substantial Completion	20-Jan-11 A	28-Feb-12		i			i
	A1890	Construction - Final Completion	20-Jan-11 A	30-Mar-12					1
	Shobe Pump Station	n Elimination Project (A11285)	01-Dec-10 A	30-Jul-11 A					
	A1800	Design	01-Dec-10 A	30-Jul-11 A					
	Lake Forest Pump S	tation, Force Main & Interceptor (E05509)	04-Oct-10 A	30-Apr-12					
	A1830	Construction	04-Oct-10 A	30-Apr-12		i			i
	Annual I/I Project (H	H09205)	01-Jun-11 A	01-Nov-12					
	A2880	Planning	01-Jun-11 A	01-Aug-11 A	1				
	A2540	Ad	15-Aug-11 A						
	A2550	Bid Opening	22-Sep-11 A						
	A2890	Award	17-Oct-11 A		•				
	A2560	Construction	01-Nov-11 A	01-Nov-12					i :
	St Matthews Interce	eptor I/I Rehabilitation Project (H12059)	01-Jul-11 A	30-Jul-12					1
	A3020	Planning	01-Jul-11 A	01-Oct-11 A	1				
	A2900	Ad	17-Oct-11 A		•				
	A2910	Bid Opening	14-Nov-11 A			•			
	A2920	Award	28-Nov-11 A			•			
	A2930	Construction	15-Jan-12*	30-Jul-12					
	Lea Ann Way Interc	eptor I/I Rehabilitation Project (H12064)	01-Aug-11 A	30-Sep-12					
	A3030	Planning	01-Aug-11 A	01-Oct-11 A					
	A2940	Ad	09-Nov-11 A			•			
	A2950	Bid Opening	13-Dec-11 A				•		
	A3000	Award	15-Jan-12*					•	
	A3010	Construction	15-Feb-12*	30-Sep-12					į (
	Lake Forest Sanitary	y Sewer Rehabilitation Project (H11303)	01-Nov-11 A	31-Dec-12					
	A3150	Planning	01-Nov-11 A	01-Mar-12		-			!
	A3160	Ad	15-Apr-12"						
	A3170	Bid Opening	15-May-12*						
	A3180	Award	01-Jun-12*						
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ID	Activity Name	Start	Finish		2011			
				Oct	Nov	Dec	Jan	
A3190	Construction	15-Jun-12*	31-Dec-12					
Camp Taylor SSR F	Phase I Project (H09407)	01-Aug-11 A	30-Jun-12					
A3690	Planning	01-Aug-11 A	31-Dec-11 A		!	!	1	
A3670	Construction	09-Jan-12*	30-Jun-12					
Lea Ann Way SSR	Phase I Project (H09405)	01-Nov-11 A	31-Dec-12					
A3740	Planning	01-Nov-11 A	01-Mar-12					
A3700	Ad	15-Mar-12*						
A3710	Bid Opening	15-Apr-12*						
A3730	Award	15-May-12*						
A3720	Construction	15-Jun-12*	31-Dec-12					
Prospect Phase I S	anitary Sewer Rehabilitation Project (H11311)	03-Jan-12	31-Dec-12					
A3200	Planning	03-Jan-12*	27-Apr-12					
A3210	Ad	15-Apr-12"						
A3220	Bid Opening	15-May-12*						
A3230	Award	01-Jun-12*						
A3240	Construction	15-Jun-12*	31-Dec-12					
Prospect Phase II	SSES (H11319)	01-Jul-11 A	30-Mar-12					
A3100	Planning	01-Jul-11 A	30-Mar-12		1	1	-	
Windham DS SSES	(#11316)	01-Jul-11 A	30-Mar-12		!		-	
A3110	Planning	01-Jul-11 A	30-Mar-12		:	:		
Codes Creek Phore		01-Jul-11 A	30-Jun-12		i	i	-	
Cedar Creek Phase	Disesion	01 11 11 4	20 Jun 12		!			
AS120		01-50-11 A	30-Jun-12		!		-	
Chenoweth Hills V	Planaion	01-50-11 A	30-301-12 20. June 12		i	i		
ASTOU	Flanning	UT-JUI-TT A	30-Jun-12		i	i		
Shively SSES (H114	408)	UT-JUI-TEA	30-Jun-12					
A3140	Planning	01-JUI-11 A	30-Jun-12		!	!		
Pump Station Op	perations Programs	01-Jan-11 A	30-Dec-12					
O-A-1 Routine Op	erating Programs	01-Apr-11 A	30-Jun-12					
A1340	Finalize Pump Station SOPs	01-Apr-11 A	30-Jun-12					
A1350	Establish Draft SOPs & Job Aides for Regional Pump Stations	22-Apr-11 A	30-Jun-12					
A1330	Submit Flood Operations & Maintenance Manual to USACE- Draft	01-Jun-11 A	31-Dec-11 A					
O-A-2 Emergency	Operation Programs	01-Jan-11 A	30-Dec-12					
West Region G	Senerator Phase V (H11078)	09-Jun-11 A	30-Mar-12					
A1930	Construction	09-Jun-11 A	30-Mar-12		!	!		
East Region E	mergency Generator Phase V (H11438)	01-Oct-11 A	30-May-12					
A1960	Award	01-Oct-11 A	,					
A1970	Construction	30-May-12*	30-May-12					
Central Region	n Emergency Generator Phase V (H11439)	29-Jul-11 A	30-Apr-12					
A2000	Award	29-Jul-11 A						
A2010	Construction	28-Aug-11 A	30-Apr-12		:	:		
Trinity Homes	Emergency Generator (H11440)	01-Jan-11 A	30-Dec-12					
A2020	Design	01-Jan-11 A	31-Aug-11 A					
A2030	Ad	15-Feb-12*						
A2040	Award	15-Mar-12*						
A2050	Construction	15-Apr-12	30-Dec-12					
Course Frances	Construction	04 Ecb 11 A	20. Jan 12					
A2100	Construction, Substantial Completion	04-Feb-11 A	30-Nov-11 A		İ			
A2100	consudatori outistantiai completion	04-Feb-11 A	SU-NOV-TT A		:			

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ivity ID	Activity Name	Start	Finish		2011			
				Oct	Nov	Dec	Jan	Fel
CPE/CPE Tr	eatment Plant Activities	01-Jul-11 A	30-Sep-12					
Hunting Cre	ek South Lagoon Elimination (H11462)	05-Aug-11 A	19-Nov-11 A					
A2080	Ad Award	05-Aug-11 A						
A2090	Award	28-Sep-11 A						
A2100	Construction	28-Sep-11 A	19-Nov-11 A					
A2220	Warrantly	19-Nov-11 A	19-Nov-11 A		1			
Timberlake	Lagoon Elimination (H11431)	05-Aug-11 A	12-Dec-11 A					
A2120	Ad Award	05-Aug-11 A						
A2130	Award	28-Sep-11 A						
A2140	Construction	28-Sep-11 A	12-Dec-11 A			<u>.</u>		
A2230	Warranty	11-Dec-11 A	11-Dec-11 A			1		
SILVER HER	GHTS WQTC Elimination Project (H12022)	01-Sep-11 A	30-Jun-12					
A3390	Planning	01-Sep-11 A	30-Jun-12					-
MFWQTC S	econdary Clarifier Flow Meters Project (H12046)	01-Aug-11 A	30-Sep-12					
A3340	Design	01-Aug-11 A	11-Nov-11 A					
A3300	Ad	15-Jan-12*					•	
A3310	Bid Opening	15-Feb-12*						•
A3330	Award	15-Mar-12*						
A3320	Construction	15-Apr-12"	30-Sep-12					
MFWQTC S	econdary Bypass Flume Replacement (H12047)	01-Jul-11 A	30-Aug-12					
A3290	Design	01-Jul-11 A	01-Jan-12					
A3250	Ad	15-Oct-11 A		•				
A3260	Bid Opening	15-Jan-12*					•	
A3280	Award	15-Feb-12*						•
A3270	Construction	15-Mar-12"	30-Aug-12					
CMOM CPE	/CCP FY11 - CL2 and SO2 Flow Pacing (H09360)	01-Oct-11 A	15-Jun-12					
A3440	Design	01-Oct-11 A	31-Mar-12		;			
A3400	Ad	15-Apr-12"	[
A3410	Bid Opening	15-May-12*						
A3430	Award	15-Jun-12*						



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SECTION 6: Project WIN Performance Overview

6.1 Rainfall

The number and the volume of wet weather overflows are directly related to the amount of rain that has fallen during the reporting period. The following graph shows the Jefferson County average rainfall amounts for the last quarter. Data was pulled from MSD's Rain Gauges.



6.2 Collection System Unauthorized Discharges

6.2.1 Collection System Overflows to Waters of the United States (WUS)

Recorded information related to overflows reaching Waters of the United States (WUS). This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows will be included in the Annual Report for the period of July 1, 2011, through June 30, 2012, and are posted on the Project WIN website. During this quarter, 239 overflows to the Waters of the United States (WUS) have been reported.





Unauthorized Discharges (Waters of the United States)												
Problem	Dry Weather	Wet Weather	Total									
Blending At Jtown WQTC	0	7	7									
Bypass At WQTC	1	5	6									
Electrical Problems At MSD	0	1	1									
Grease Blockage	0	1	1									
Lack Of System Capacity	0	197	197									
Mechanical Failure	1	1	2									
Obstruction-Not Grease Or Root	3	0	3									
Pumped Overflow	0	18	18									
Structural Failure	3	1	4									
Grand Total	8	231	239									

6.2.2 Overflows to Ground (EXT)

Recorded information related to overflows to the ground that did not reach waters of the United States for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows will be included in the Annual Report for the period of July 1, 2011, through June 30, 2012.

6.2.3 Overflows to Interior (INT)

Recorded information related to overflows to building interiors for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows, that are the result of an issue in the main line, will be included in the Annual Report for the period of July 1, 2011, through June 30, 2012.

6.2.4 Dry Weather CSOs

Recorded information related to dry weather overflows from permitted combined sewer overflow outfalls. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. A detailed report of these overflows will be included in the Annual Report for the period of July 1, 2011, through June 30, 2012. The table below summarizes dry weather CSOs that occurred during the quarter. Appendix A-1 includes details on the dry weather overflows that occurred in the quarter.





	Dry Weather CSO - October 1, 2011 - December 31, 2011											
cso	Type of Discharge	Date/Time	Problem	Cause	Volume (Gal)							
CSO113	Dry Weather Discharge	11/30/11 10:42 AM	OBSTRUCTION	OBSTRUCTION IN MAIN SEWER	180							
CSO130	Dry Weather Discharge	10/4/11 10:37 AM	OBSTRUCTION	LINE OBSTRUCTION DUE TO BRICKS IN SEWER	2,291							
CSO206	Dry Weather Discharge	11/30/11 12:55 PM	OBSTRUCTION	DISCHARGE WAS CAUSED BY A STOPPED UP STORM LINE THAT CAUSED TOO MUCH STORM WATER TO ENTER THE CSO.	100							

6.3 CSO Reductions

Included in **Appendix B** is the CSO data for this quarter. A summary of any data anomalies and the CSO data for each monitored overflow has been graphed along with rainfall information from the nearest rain gauge to facilitate review of the overflows that occurred.

There were no CSO reduction projects completed during the reporting period.

6.4 SSO Reductions

Estimation of SSO volume is not available in the same manner as it is for the CSO locations. The SSO volume reductions are estimates based on actual observations or from flow monitoring information.

The following projects that impacted SSOs were completed during this reporting period:

- Fern Lea Completed November 9, 2011 Eliminated the following SSO: MSD0047-PS
- Fern Lea PS Wet Well Completed November 9, 2011 Eliminated the following SSO: 04542
- Mary Catherine; D/S Pioneer RS Telemetry Completed November 9, 2011 Eliminated the following SSO: 04498
- Pioneer Rd PS Completed November 21, 2011 Eliminated the following SSO: 81814-W
- Scottsdale #1 Completed November 25, 2011 Eliminated the following SSO: MSD0016-PS
- Jacks Lane Completed November 29,2011 Eliminated the following SSO: MSD0044-PS
- Southeast Diversion Structure Completed December 19, 2011 Eliminated the following SSO: 72571-X
- Hurstbourne Golf Course Manhole Completed December 27, 2011 Eliminated the following SSO: 01793





- Hurstbourne Golf Course Manhole Completed December 27, 2011 Eliminated the following SSO: 47650
- Hurstbourne Golf Course Manhole Completed December 27, 2011 Eliminated the following SSO: 47656
- Hurstbourne Golf Course Manhole Completed December 27, 2011 Eliminated the following SSO: 67535
- Lantana PS Completed December 29, 2011 Eliminated the following SSO: MSD0101-PS
- Manhole adjacent to Lantana PS Completed December 29, 2011 Eliminated the following SSO: 25484
- Wetwell for Lantana PS Completed December 29, 2011 Eliminated the following SSO: 93719

6.5 Gravity Line Preventive Maintenance

Each quarter, data and statistics relating to the cleaning, inspection, and maintenance of sewer assets performed under the Gravity Line Preventive Maintenance (GLPM) are reported. The following data was compiled for the period of January 1, 2011, through December 31, 2011. The first table includes data and targets. The second table includes unplanned maintenance and other maintenance activities that are performed in response to inspection.

Rolling Quarterly GLPM Performance With Targets											
	Jan-Mar Apr-Jun Jul-Sep Oct-Dec										
Combined Sewer Area											
Catch Basins Cleaned CSO Area - PM	5,518	6,660	8,165	7,570	27,913	4460					
CSO Inspections	1,335	1,347	1,339	1,339	5,360	1272					
Sanitary Sewer Area											
Catch Basins Cleaned SSO Area - PM	1,331	53	3,386	847	5,617	1144					
County Wide											
Sewer Main Inspections MSD Crews (LF)	224,419	133,370	281,495	202,842	842,126	198000					
Sewer Main Inspections Contractor (LF)	309,086	198,521	189,165	216,282	913,054	198000					
Total Inspections (LF)	150257	533505	331891	419124	1434777	396000					





Polling Quarterly CLDM Performance											
Koning Q	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Total						
Combined Sewer Area											
Catch Basins Cleaned CSO Area - UM	204	368	462	168	1202						
CSO Debris Removal WO	76	135	122	103	436						
Chemical Root Treatment CSO Area (LF)	11400	1479	0	961	13840						
Root Cutting CSO Area (LF)	9652	3,887	83,868	41,348	138,755						
Flushing and Cleaning of Sewer Mains CSO Area (LF)	14,436	16,207	32,060	15,388	78,091						
Sanitary Sewer Area											
Catch Basins Cleaned SSO Area - UM	83	129	80	115	407						
Chemical Root Treatment SSO Area (LF)	105774	7,916	0	120,630	234,320						
Root Cutting SSO Area (LF)	79785	46212	28300	43603	197900						
Flushing and Cleaning of Sewer Mains SSO Area (LF)	83235	69,790	32,056	34,710	219,791						

6.6 Water Quality Treatment Center Bypasses

6.6.1 Bypass Events

Included in **Appendix A-2** is a report that lists the details of the 6 bypasses that occurred at water quality treatment centers (WQTC) during this reporting period. Bypasses were reported for the following WQTCs:

Q25 - Bypass Events											
Type of Bypass	Date	ID	Facility Name								
Wet Weather	2/5/2011	MSD0263	CHENOWETH HILLS								
Wet Weather	10/13/2011	MSD0277	DEREK R. GUTHRIE								
Dry Weather	10/15/2011	MSD0255	JEFFERSONTOWN								
Wet Weather	11/30/2011	MSD0278	MORRIS FORMAN								
Wet Weather	12/5/2011	MSD0209	BERRYTOWN								
Wet Weather	12/5/2011	MSD0263	CHENOWETH HILLS								

6.6.2 Bypass Corrective Actions

Each quarter, an assessment of bypasses will occur to determine the root cause of the bypass, the failure category, corrective actions to be taken, possible programmatic solutions, and corrective action completion date. Refer to the table below for causes of bypasses and respective corrective actions that occurred between October 1, 2011, and December 31, 2011.





Bypass Analysis – October 1,	, 2011, to December 31, 2011					
Bypass Description	Bypass Corrective Actions					
Capacity						
- <u>Berrytown WQTC (Hansen Discharge</u> <u>WO: 1388761):</u> Bypass (capacity) was reported at this WQTC on December 5, 2011. Increased plant flow caused secondary aeration to be shut off to prevent solids wash-out. Plant flows were more than ten times the design flow during the rain event on December 5, 2011.	 Secondary aeration was shut down until flow reached normal operating levels to reduce the impact of the bypass. If operational needs for resources allow, MSD will haul wastewater from this WQTC during significant rain events. Lake Forest Pump Station, Force Main, and Interceptor (Budget ID E05509) will eliminate this WQTC. The Berrytown component of this project is anticipated to be complete by December 31, 2012. 					
 <u>Chenoweth Hills WQTC (Hansen Discharge WO: 1389076)</u>: Bypass (capacity) was reported at this WQTC on December 5, 2011. Increased plant flow caused the chlorine contact tank channel to overflow. Plant flows were more than six times the design flow during the rain event on December 5, 2011. 	 If operational needs for resources allow, MSD will haul wastewater from this WQTC during significant rain events. Reviewed SOPs for possible enhancement. No further action is advised at this time. An SSES project (Budget ID A3130) to reduce wet weather flows is scheduled for completion on June 30, 2012. 					
- <u>Chenoweth Hills WQTC (Hansen Discharge WO: 1389077)</u> : Bypass (capacity) was reported at this WQTC on December 5, 2011. Increased plant flow caused the effluent pump station to overflow. Plant flows were more than six times the design flow during the rain event on December 5, 2011.	 If operational needs for resources allow, MSD will haul wastewater from this WQTC during significant rain events. Reviewed SOPs for possible enhancement. No further action is advised at this time. An SSES project (Budget ID A3130) to reduce wet weather flows is scheduled for completion on June 30, 2012. 					





External Power failures (LGE Related-PWR)	
- <u>Derek R Guthrie WQTC (Hansen</u> <u>Discharge WO: 1357433):</u> Bypass (Power Failure) was reported at this WQTC on October 13, 2011. A power failure caused flow to bypass disinfection and dechlorination during the rain event of October 13, 2011.	 MSD closed the plant influent gate to stop the bypass. Plant expansion will include backup power source for disinfection and dechlorination. This project is scheduled to be complete on February 29, 2011.
Facility Failure (Mechanical -MCH, Electrical - ELE, Structural-SRT)	
- <u>Jeffersontown WQTC (Hansen</u> <u>Discharge WO: 1358396):</u> Bypass (electrical) was reported at this WQTC on October 15, 2011. An electrical malfunction in the secondary pump station caused a bypass of secondary treatment during dry weather on October 15, 2011.	 MSD investigated the electrical failure, and re-started the pump station upon discovery. Changed the secondary pump station control switch relay to reduce possible re-occurrence. Reviewed SOPs for possible enhancement. No further action is advised at this time. The Jeffersontown WQTC elimination project is scheduled to be complete by December 31, 2015.
 Morris Forman WQTC (Hansen <u>Discharge WO: 1387346)</u>: Bypass (electrical) was reported at this WQTC on November 30, 2011. The biotower pumps shut down during the rain event on November 30, 2011. 	 MSD investigated the pump shut down, and re-started upon discovery of the failure. Reviewed SOPs for possible enhancement. No further action is advised at this time.
Human Error (OPN)	
 No bypasses of this category occurred during the reporting period. 	- N/A
Utility Damage	
 No bypasses of this category occurred during the reporting period. 	- N/A





6.6.3 Jeffersontown Water Quality Treatment Center

MSD submitted a Jeffersontown WQTC Process Control Plan on October 31, 2008, as required by paragraph 26.a of the Amended Consent Decree. MSD received comments on December 12, 2008, and resubmitted the plan January 16, 2009, and again on February 20, 2009. MSD received conditional approval of this document from EPA on April 1, 2009, pending finalization of the Amended Consent Decree that was under consideration by the Federal Court at the time the Process Control Plan was submitted. The Process Control Plan was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, that was entered into public record February 15, 2010.

The following activities occurred at the Jeffersontown WQTC during the reporting period:

• Conducted five inspection routes as described in Section 2.2 - Overflow Management and Field Documentation.



- Inspections did not identify any overflows at the Jeffersontown Siphon during the reporting period. Replaced bad level instrument and PLC at the Jeffersontown Siphon in October due to erroneous data.
- Overflows were identified at manhole 28173 as a result of inspections of manholes within 2,000 feet of the Jeffersontown head works.
 - 0 November 22, 2011
 - 0 November 28, 2011
 - O December 05, 2011
- Seven blending events occurred at the Jeffersontown WQTC during this quarter. Included in **Appendix A-3** is a report that lists the details from the blending events. The following charts show plant flow at the Jeffersontown WQTC when blending began. The data for





each event indicates that MSD met the protocols outlined in Jeffersontown Wastewater Treatment Plant Process Control Program for the quarterly reporting period.

































6.7 Phosphorus Monitoring at the Prospect WQTCs

As part of the Amended Consent Decree, MSD has agreed to submit phosphorus monitoring data including the calculations of monthly averages with the quarterly reports. MSD WQTCs were under the 1mg/l limit during the reporting period, per the Amended Consent Decree requirement. The following chart displays monthly average phosphorus results for the Prospect WQTCs.

Sample results in October and November indicated that influent phosphorus levels are elevated at Timberlake WQTC. Activities to reduce effluent phosphorus levels include moving the Sodium Aluminate Building on November 15, 2011, to allow two pumps to feed Sodium Aluminate just after flow passes the bar screen.







Appendix A-1 - Discharge Work Orders – Dry Weather CSOs



Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
MORRIS FORMAN	KY0022411	1215 ELLISON AVE	11/30/11 10:42: AM	1 11/30/11 11:18 AM	180 GAL	Sewer Manhole	CSO113	STREAM	SOUTH FORK BEARGRASS CREEK	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE OR ROOT	1387045	NO CLEAN UP PERFORMED- PIPE DISCHARGES DIRECTLY INTO STREAM	FLUSHED/VACTORED THE OBSTRUCTION/DEBRIS FROM SEWER
MORRIS FORMAN	KY0022411	1400 STORY AVE	10/04/11 10:37: AM	1 10/04/11 11:25 AM	2,291 GAL	Sewer Manhole	CSO130	STREAM	SOUTH FORK BEARGRASS CREEK	LINE OBSTRUCTION DUE TO BRICKS IN SEWER	OBSTRUCTION-NOT GREASE OR ROOT	1350359	NONE NEEDED-MSD CREWS ARE ON LOCATION	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1700 SPRING DR	11/30/11 12:55: PM	1 11/30/11 01:08 PM	100 GAL	Sewer Manhole	CSO206	STREAM	MIDDLE FORK BEARGRASS CREEK	DISCHARGE WAS CAUSED BY A STOPPED UP STORM LINE THAT CAUSED TOO MUCH STORM WATER TO ENTER THE CSO.	I OBSTRUCTION-NOT GREASE OR ROOT	1387212	NO CLEAN UP PERFORMED- PIPE DISCHARGES DIRECTLY INTO STREAM	REMOVED HEAVY LEAVES/DEBRIS FROM NECK OF STORM PIPE AND RELIEVED THE OVERFLOW

APPENDIX A-1 UNAUTHORIZED DISCHARGES TO WATERS OF UNITED STATES OCTOBER 1, 2011 THROUGH DECEMBER 31, 2011



Appendix A-2 - Discharge Work Orders – Bypass



Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	wo #	Cleanup Efforts by MSD	Repair Efforts by MSD
BERRYTOWN	KY0036501	1203 HEAFER RD	12/05/11 12:10: PM	1 12/07/11 10:40 AM	139,500 GAL	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	1388761	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	10/15/11 11:39: PM	1 10/16/11 01:10 AM	72,607 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	ELETRICAL PROBLEMS AT THE INFLUENT PUMP STATION	BYPASS AT WQTC	1358396	NO CLEAN UP SUBMERGED DISCHARGE PIPE	MSD MAINTENANCE MADE REPAIRS TO PUMP STATION .
CHENOWETH HILLS	KY0029459	4305 ST RENE CT	12/05/11 7:04: PM	1 12/05/11 09:04 PM	1,200 GAL	Sewer Treatment Plant	MSD0263	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	1389076	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
CHENOWETH HILLS	KY0029459	4305 ST RENE CT	12/05/11 7:04: PM	1 12/05/11 09:04 PM	12,000 GAL	Sewer Treatment Plant	MSD0263	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	1389077	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	11621 LOWER RIVER RD	10/13/11 6:22: PM	1 10/13/11 07:00 PM	824,099 GAL	Sewer Treatment Plant	MSD0277	STREAM	OHIO RIVER	DRG : DURING WET WEATHER EVENT DRG LOST POWER DUE TO LG&E ISSUES. EFFLUENT RECIEVED FULL TREATMENT, EXCEPT CHLORINATION AND DECHLORINATION.	BYPASS AT WQTC	1357433	NO CLEANUP REQUIRED, PIPE DISCHARGE SUBMERGED.	SWITCHED LGE POWER FEEDS AND BROUGHT PLANT BACK ONLINE.
MORRIS FORMAN	KY0022411	4522 ALGONQUIN PKY	11/30/11 1:00: PM	1 11/30/11 01:30 PM	1,500 GAL	Sewer Treatment Plant	MSD0278	STREAM	OHIO RIVER	BIOTOWER PUMPS 1&2 FAILURE	BYPASS AT WQTC	1387346	PIPE DISCHARGE SUBMERGED - NO CLEANUP	GROUNDWATER PUMPS NUMBER 9&10 TURNED OFF TO STOP DISCHARGING TO THE RIVER WHILE REPAIRS ARE MADE TO BIOTOWER PUMPS 1&2

APPENDIX A-2 UNAUTHORIZED DISCHARGES TO WATERS OF UNITED STATES OCTOBER 1, 2011 THROUGH DECEMBER 31, 2011



Appendix A-3 - Discharge Work Orders – Blending



Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Overflow Stop Date & Time Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To N	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	11/15/11 2:05: PM 11/15/11 09:29 PM	177,661 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN.	BLENDING AT JTOWN 13 WQTC	381213	PIPE DISCHARGE SUBMERGED; NO CLEANUP	NEGOTIATINS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	11/16/11 8:41: AM 11/16/11 05:07 PM	385,858 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN 13 WQTC	381587	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	11/22/11 8:55: AM 11/22/11 11:36 AM	1,459,476 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN 13 WQTC	383610	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	11/27/11 11:23: PM 11/30/11 05:14 AM	8,900,996 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	RAINEVENT CAUSED A LACK OF SYSTEM CAPACITY	BLENDING AT JTOWN 13 WQTC	384694	NO CLEAN UP PERFORMED PIPE DISCHARGE UNDERWATER DIRECTLY INTO STREAM	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	12/05/11 4:33: AM 12/06/11 11:03 PM	6,060,240 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN 13 WQTC	388349	PIPE DISCHARGE SUBMERGED	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	12/22/11 5:26: PM 12/23/11 01:29 AM	372,989 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY	BLENDING AT JTOWN 13 WQTC	398346	PIPE DISCHARGE SUBMERGED	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	12/27/11 11:18: AM 12/27/11 10:13 PM	683,551 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN 13 WQTC	399071	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.

APPENDIX A-3 UNAUTHORIZED DISCHARGES TO WATERS OF UNITED STATES OCTOBER 1, 2011 THROUGH DECEMBER 31, 2011



Appendix B – CSO Flow Monitoring Data





CSO015 (10/01/11 to 01/01/12)

CSO016 (10/01/11 to 01/01/12)

CSO 016 Flow (MGD)



CSO018 (10/01/11 to 01/01/12)

Nightingale PS.CSO018 Flow (MGD) TR12.Rain (in)



CSO019 (10/01/11 to 01/01/12)



CSO020 (10/01/11 to 01/01/12)



CSO029 (10/01/11 to 01/01/12)



CSO050 (10/01/11 to 01/01/12)



CSO053 (10/01/11 to 01/01/12)



CSO055 (10/01/11 to 01/01/12)



CSO058 (10/01/11 to 01/01/12)



CSO084 (10/01/11 to 01/01/12)



CSO088 (10/01/11 to 01/01/12)

M1 Flow (MGD)

TR05_Beargrass PS.Rain (in)



CSO091 (10/01/11 to 01/01/12)



CSO097 (10/01/11 to 01/01/12)

C097_FLOW_MGD (MGD) TR12.Rain (in)



CSO105 (10/01/11 to 01/01/12)


CSO106 (10/01/11 to 01/01/12)



CSO108_CDS_OF (10/01/11 to 01/01/12)



CSO110 (10/01/11 to 01/01/12)



CSO117 (10/01/11 to 01/01/12)



CSO118 (10/01/11 to 01/01/12)



CSO120 (10/01/11 to 01/01/12)



CSO121 (10/01/11 to 01/01/12)



CSO125 (10/01/11 to 01/01/12)



CSO126 (10/01/11 to 01/01/12)



CSO127 (10/01/11 to 01/01/12)





CSO132 (10/01/11 to 01/01/12)



CSO137 (10/01/11 to 01/01/12)



CSO140 (10/01/11 to 01/01/12)



CSO146 (10/01/11 to 01/01/12)



CSO148 (10/01/11 to 01/01/12)



CSO149 (10/01/11 to 01/01/12)



CSO150 (10/01/11 to 01/01/12)



CSO151 (10/01/11 to 01/01/12) (MGD)

Flow 1 (MGD)

TR12_Nightingale PS.Rain (in)



CSO152 (10/01/11 to 01/01/12)



CSO153 (10/01/11 to 01/01/12)



CSO154 (10/01/11 to 01/01/12)



CSO155 (10/01/11 to 01/01/12)



CSO166 (10/01/11 to 01/01/12)



CSO167 (10/01/11 to 01/01/12)



CSO174 (10/01/11 to 01/01/12)



CSO180 (10/01/11 to 01/01/12)



CSO182 (10/01/11 to 01/01/12)



CSO189 (10/01/11 to 01/01/12)



CSO190 (10/01/11 to 01/01/12)



CSO191 (10/01/11 to 01/01/12)

Flow (MGD)

TR04_Morris Forman WQTC.Rain (in)



CSO195 (10/01/11 to 01/01/12)



CSO199 (10/01/11 to 01/01/12)

------ Flow 1 (MGD)

~

TR12_Nightingale PS.Rain (in)



CSO200 (10/01/11 to 01/01/12)



CSO206 (10/01/11 to 01/01/12)



CSO210 (10/01/11 to 01/01/12)

CSO210 Flow (MGD) TR04.Rain (in)


CSO211 (10/01/11 to 01/01/12)

Flow (MGD)

TR04_Morris Forman WQTC.Rain (in)





Appendix C – Acronyms



Appendix C - Acronyms for Project WIN Quarterly Report

AAM	Advanced Asset Management
AAOV	Annual Average Overflow Volume
ADAPS	Automated Data Processing System
BGC	Beargrass Creek
BMP	Best Management Practices
CCP	Composite Correction Plan
CD	Consent Decree
CMF	Central Maintenance Facility
CMMS	Computerized Maintenance Management System
СМОМ	Capacity Management Operations and Maintenance
CPE	Comprehensive Performance Evaluations
CSO	Combined Sewer Overflow
CSS	Combined Sewer System
CSSA	Continuing Sewer System Assessment
DAP	Discharge Abetement Plan (DAP)
DMR	Discharge Monitoring Report
eB	Enterprise Bridge (Spescom scanning software for document management)
EMC	Event Mean Concentration
EPA	Environmental Protection Agency
ERP	Enforcement Response Plan
FM	Force Main
FOG	Fats Oil & Grease
FPS	Flood Pump Station
ESE	Food Service Establishment
FY	Fiscal Year
GCE	Grease Control Equipment
GIS	Geographical Information System
GLPM	Gravity Line Preventive Maintenance
	Human Machine Interface
	Infrastructure & Flood Protection (MSD Division)
	Intercentor Condition Assessment
	Identification
	Inflow and Infiltration
IMS	Information Management System
	Integrated Overflow Abstement Plan
	Integrated Overnow Abatement Flam
IJJUF	Internition Technology
	Industrial Wests Department
	Industrial Waste Department
JCP3	Jenerson County Public Schools
KDEP	Kentucky Department of Environmental Protection
KPDE5	Kentucky Politicant Discharge Elimination System
	Kenlucky
	Lateral Extension
	Low Impact Development
	Laboratory Information Management System
	Long Term Control Plan
	Louig Territ Control Fide Louisville and Jofferson County Information Concertium
	Louisville and Jenerson County Information Consolitum
	Main Diversion Structure
INIER	main Equipment Building

1

Appendix C - Acronyms for Project WIN Quarterly Report

MFWTP	Morris Forman Wastewater Treatment Plant
MG	Million Gallons
MGD	Million Gallons Per Day
MLK	Martin Luther King
МО	Metro Operations
MOA	Memorandum of Agreement
MOR	Monthly Operating Report
MOU	Memorandum of Understanding
MSD	Metropolitan Sewer District (Louisville and Jefferson County)
NDD	Non-Domestic Dischargers
NMC	Nine Minimum Controls
NPR	National Public Radio
ORSANCO	Ohio River Valley Water Sanitation Commission
PACP	Pipeline Assessment and Certification Program
PCM	Post Construction Monitoring
PI	Plant Information System
PM	Preventive Maintenance
POC	Pollutants of Concern
PP	Pumping Package
PS	Pump Station
PSC	Property Service Connection
RDII	Rainfall-Derived Infiltration and Inflow
RS	Regulatory Services
RTC	Real Time Control
SCADA	Supervisory Control And Data Acquisition
SCAP	System Capacity Assurance Plan
SIU	Significant Industrial User
SOP	Standard Operating Procedure
SORP	Sewer Overflow Response Protocol
SSDP	Sanitary Sewer Discharge Plan
SSES	Sanitary Sewer Evaluation Study
SSO	Sanitary Sewer Overflow
SSOP	Sanitary Sewer Overflow Plan
SWOR2	Southwestern Outfall Relief - Phase 2
SWPS	Southwestern Pump Station
ТМ	Technical Memorandum
TMDL	Total Maximum Daily Load
TV	Television
UIM	Utility Information Management
UK	University of Kentucky
USACE	US Army Corps of Engineers
USF&W	United States Fish and Wildlife
USGS	United States Geological Survey
WDR	Wastewater Discharge Regulators
WIN	Waterway Improvements Now
WQT	Water Quality Tool
WQTC	Water Quality Treatment Center
WW	Wet Weather
WWT	Wet Weather Team