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

Subject: Quarterly Report Number 16

Civil Action No. 3:08-cv-00608-CRS

### 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 July 1, 2009 through September 30, 2009. 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, Water Quality Treatment Centers, Performance Overview and CMOM.

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. Brian Bingham Regulatory Services Director

O16 Certification KDEP 10-30-09

H. J. Schardein, Jr. Paula Purifoy Laurence J. Zielke cc:



# Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #16



## **Reporting Period:**

July1, 2009 through September 30, 2009

# **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:**

October 30, 2009



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#### **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 sixteenth Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from July 1, 2009, through September 30, 2009. **The structure for this report is outlined as follows:** 



**Section 1: Program Activities for Nine Minimum Controls -** This section describes the scope, schedule and status for projects and other activities that were active during the reporting period July 1, 2009, through September 30, 2009, and the anticipated projects and activities that are scheduled to be performed during the next reporting period (October 1, 2009, through December 31, 2009) for continued compliance with the Amended Consent Decree.

**Section 2: Program Activities for Sewer Overflow Response Protocol -** This section describes the scope, schedule and status for activities that were active during the reporting period July 1, 2009, through September 30, 2009, and the anticipated activities that are scheduled to be performed during the next reporting period (October 1, 2009, through December 31, 2009) for continued compliance with the Amended Consent Decree.

**Section 3: Program Activities for Discharge Abatement Plans** - This section describes the scope, schedule and status for projects and other activities that were active during the reporting



period July 1, 2009, through September 30, 2009, and the anticipated projects and activities that are scheduled to be performed during the next reporting period (October 1, 2009, through December 31, 2009) 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, education, notification and participation that were active during the reporting period July 1, 2009, through September 30, 2009, and the anticipated activities that are scheduled to be performed during the next reporting period (October 1, 2009, through December 31, 2009) for continued compliance with the Amended Consent Decree.

**Section 5: Capacity Management, Operations and Maintenance Report** - The program activities performed during the reporting period July 1, 2009, through September 30, 2009, and activities planned for the next reporting period (October 1, 2009, through December 31, 2009) are included in this section for continued compliance with the Amended Consent Decree.

**Section 6: Program Activities for Water Quality Treatment Centers** - This section describes the scope, schedule and status for projects and other activities related to WQTCs that were active during the reporting period July 1, 2009, through September 30, 2009, and the anticipated projects and activities that are scheduled to be performed during the next reporting period (October 1, 2009, through December 31, 2009) for continued compliance with the Amended Consent Decree.

**Section 7: Performance Overview** - This section provides an accounting of the number of overflow occurrences, including unauthorized discharges, 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.



## **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 <a href="https://www.msdlouky.org/projectwin">www.msdlouky.org/projectwin</a>. Highlights of the NMC program implementation over this reporting period are outlined below.

## 1.2 NMC 1: Proper Operation and Maintenance Programs

#### **Program Metrics**

- Inspected and cleaned 4531 catch basins within the combined sewer system (CSS) during this reporting period.
- Continued to inspect, maintain and properly operate the CSS pump stations and the Morris Forman WQTC.
- Performed 1352 weekly inspections on CSOs, 273 creek inspections, and initiated over 140 work orders for debris removal and/or repairs as determined to be necessary to allow proper system operation during this reporting period.
- As part of the gravity sewer preventive maintenance program, MSD flushed 4 sewer line segments in the CSS, ranging in size from 6 inches to 15 inches, during this reporting period and performed formula TV inspection on 23 lines.
- Several projects continue to create improved access to some CSO sites to facilitate cleaning activities. Most of these projects are still in the easement acquisition stage.



- The following CSO performance measures were implemented on July 1, 2009.
  - 1. 95% of CSOs Inspected/Week
  - 2. 95% of flap gates inspected weekly
  - 3. 95% of siphons inspected monthly
  - 4. 95% of Debris or Repair Work Orders on CSO assets created the next work day after the inspection of the asset and open for no more than 5 days.
  - 5. 95% catch basins cleaned every 15 months
  - 6. 10% reduction in maintenance related (roots, obstructions, structural failures,



mechanical failures, electrical failures, grease blockages, etc.) dry weather overflows in the combined sewer area each fiscal year.

7. 10% reduction in overflows in the CSS related to siphon maintenance each fiscal year

## **Annual Training**

No training was performed this quarter.

#### Annual Asset Review and Documentation

• The CSO Inventory document continues to be updated as changes are made to the system.

## 1.3 NMC 2: Maximization of Storage in the Collection System

#### Real Time Control Operation

- Continued operation of Phase I and Phase 2 of the Real Time Control system. During this reporting period, approximately 164 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 **Appendix F** for a detailed report.
- Progress continued on the following RTC projects:

Southeast Diversion Flowmeter Instability Analysis - The Southeast Diversion Structure diverts flow to the Northern Ditch Pump Station. Information needed to control the flow to the pump station site was inaccurate due to instabilities in the flow meters at the diversion structure as well as at the Northern Ditch site. BPR CSO submitted a report on September 17, 2008, that identified the actions needed to correct these instabilities. MSD has completed the review of the document and provided comments to BPR CSO on June 30, 2009. BPR CSO submitted modified drawings and specifications in July 2009. Based upon the drawings and specifications submitted by BPR, MSD purchased three Flodar Flowmeters. Two flowmeters will be installed at the Southeast Diversion Structure and one at the Nightingale Pump Station. MSD is currently awaiting delivery of the meters, but is anticipating them to be installed by the end of November 2009.

<u>Web-Based Training</u> – All the modules have been completed; MSD Training Department and Metro Operations staff reviewed the information in preparation of 2009 training. MSD reviewed the documentation submitted by BPR and comments were returned to BPR on July 12, 2009. The package, shipped via USPS, was never delivered to BPR and after two months was recovered by MSD and reshipped via UPS. The comments arrived at BPR CSO on September 23, 2009. The comments will be incorporated into the Web-Based Training modules in November 2009, with the modules up and running by the end of December 2009.

#### Storage Optimization

• <u>Beargrass Creek Flapgate Evaluation</u> - The technical memorandum to document the findings of the September 2008 analysis was presented to I&FP staff in January 2009. A prioritization plan was completed on June 19, 2009. Design of the first set of flap gates



was completed in September 2009. Project was advertised on September 15, 2009. Bids will be opened on October 5, 2009.

- <u>CSO 86 Dam Modification</u> Dam at CSO 86 will be raised 1.3 feet prior to December 31, 2009.
- <u>CSO 210 Dam Modification</u> Design of the dam modification will be completed prior to December 31, 2009. Project budget has been requested. Construction is scheduled to be completed prior to June 30, 2010, pending budget approval.
- <u>CSO 108 Dam Modification</u> Project design will begin in October, 2009. Construction of this project will be completed prior to December 31, 2010.

### 1.4 NMC 3: Review and Modification of Pretreatment Requirements

- MSD continues to send wet weather alerts to NDD of concern prior to rain events, reminding them of their commitment to implement voluntary controls during wet weather events. During this period, MSD sent email notices to NDDs 1 7 times prior to a rain event. There were 19 rain events during this quarter. There are currently 8 NDDs that voluntarily implement control during wet weather by alternating their cleaning schedule or by storing during a rain event and releasing later.
- MSD continues to include specific NMC #3 related language as appropriate in re-issued permits discharging to the CSS when those permits are due for re-issuance.
- MSD continues to seek out green infrastructure opportunities at NDD discharging to CSS.
- MSD continues to place rain event constraints on Unusual Discharge Requests to the CSS. MSD issued 14 UDRs in the CSS.
- MSD continues to track performance measures to monitor the effectiveness of the implementation of NMC #3 within the Pretreatment Program.
- MSD collected additional data from trunk sewers and NDDs of concern. Analytical data available from the sampling effort has been evaluated. MSD will rerun models once new water quality standards are adopted by KDEP. When MSD reruns the models, the most recent industrial data will be used.
- MSD will continue to review industrial user data of all NDDs of concern to determine if
  they discharge a disproportionate share of pollutants of concern to the CSS. MSD
  expects reduced flows and pollutant loadings from NDDs of concern to continue until the
  economy recovers.

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

• Continued operation of RTC Phase I and Phase II, which minimizes wet weather CSOs by providing an optimized method for delivering more consistent flows into Morris



Forman WQTC during and after wet weather events. During this reporting period, approximately 164 MG was stored in the system during rain events and routed to the Morris Forman WQTC once the system was able to handle the flow. See **Appendix F** for a detailed report.

• Implementation of the RTC Phase II programmatic enhancement initiatives previously discussed in NMC #2 continues.

## 1.6 NMC 5: Elimination of CSOs During Dry Weather

## Flood Pump Stations

- The final design contract was negotiated for the gate automation modifications for 4th and 34th Street Flood Pump Stations (FPS) to eliminate dry weather overflows (DWO) at each site. A contract for final design was awarded to complete both projects with a final design notice-to-proceed issued on July 20, 2009. During the next reporting period, the 4th Street FPS DWO Elimination Project (Budget ID H08477) will have a 50% design submittal on October 19, 2009. The 34th Street FPS DWO Elimination Project (Budget ID H08478) will have a 50% design submittal on October 30, 2009. Modifications for 17th Street, 27th Street and Shawnee FPS will be performed in future fiscal years.
- The remaining five FPS, Beargrass Creek, Starkey, Western, 5<sup>th</sup> and 10<sup>th</sup> Street, only require changes in the operating procedures to eliminate DWO. These changes must be approved by the USACE. A contract was awarded to develop DWO abatement solutions for these FPS. The contract will look at each FPS, quantify the volumes of DWOs and develop standard operating procedures (SOPs) for the FPS. The SOPs were completed on July 24, 2009, and prepared for submission to U.S. Army Corps of Engineers for approval discussions.
- A meeting was held on August 10, 2009, to communicate with USACE regarding the proposed FPS modifications. The USACE has agreed with MSD's plan of action. This plan includes updating the current flood protection system operation and maintenance manual. This update will include all the FPS SOP revisions to eliminate DWOs. MSD will begin planning and budgeting for the manual revisions during the next reporting period. The meeting minutes from the August 10, 2009, meeting are included under Appendix H.
- Implementation of the Unusual Discharge Request permit program will continue to prevent negative impacts on the CSS from discharges not already covered by a wastewater discharge permit. 14 UDRs were processed in this quarter.

## Asset Analysis

 MSD performed the quarterly evaluation of dry weather unauthorized discharges to the Waters of the United States, with emphasis on the CSS, to determine causes and to determine if there is a need for corrective activities. MSD will continue to report dry weather overflows from the CSS in accordance with the Sewer Overflow Response Protocol (SORP).



#### 1.7 NMC 6: Control of Solid and Floatable Materials in Combined Sewer Overflows

#### Field Verification

- Staff continues to work on the implementation of an expanded visual inspection program to determine the efficacy of installed controls. A visual inspection program outline was developed prior to March 31, 2009. The pilot implementation process was developed by April 30, 2009. A testing of this process was performed on May 14, 2009. The intent of the visual inspections is to verify the installed controls are working by checking the appearance of the creek/river during and after a rain event compared to a standard for aesthetics. MSD captured the first qualifying event on July 22, 2009. Findings and recommendations with the volume of floatables removed will be summarized in the FY10 Annual Report.
- CSO 108 Rehabilitation The initial rehabilitation work was completed on April 28, 2009. The CDS unit wet wells had several inflow points causing the system to activate during dry weather conditions, causing a false wet weather discharge alarm/report. The CDS unit has been sealed but inflows are still observed on site. Water is following the interceptor to the CDS unit. Due to wet weather and high ground water conditions, staff was not able to enter the CDS unit and incoming 24-inch diameter sewer for inspection. Staff will plan to enter the unit and line for detailed inspection during the next reporting period. The interceptor line entering the unit will also be CCTV'd for a potential CIPP lining project.

#### Solids and Floatables Debris Removal

- Continued inspection and maintenance procedures for the solids and floatables structures as part of the weekly CSO inspections and PM cleaning routines, outlined under NMC #1. During this period, 116 work orders were issued for debris removal at the solids and floatables structures.
- Continued working with staff to determine the quantity of debris and floatables captured by street sweeping, catch basin cleaning, at the headworks of the MFWQTC, and at the end of line S&F controls. Reports have been developed to capture the amount of material removed through catch basin cleaning and at the end of the line S&F controls. In the last guarter:
  - 934 CY of debris was removed from the system with catch basin cleaning;
  - 8.75 CY of debris was removed from the end of the line S&F controls;
  - 4,370 CY of debris was removed from the headworks of MFWQTC;
  - 418.7 tons of debris was removed by street sweeping.

## 1.8 NMC 7: Pollution Prevention Programs to Reduce Contaminants in CSOs

 Continued coordination of activities performed by Louisville Metro such as: street sweeping, Operation Brightside (garbage pick-up), and other Metro pollution prevention programs.



- Continued administration of the Hazardous Materials Ordinance, which requires users
  with hazardous materials on site to submit a spill prevention and control plan. Continued
  response to spills of hazardous materials and incidents involving discharges to the
  sewer system and provided spill mitigation kits to the Louisville Metro Fire Department to
  use to absorb vehicle fluids rather than flushing to the sewer.
- Continued administration of the Erosion Prevention and Sediment Control Ordinance. In the next quarter, a tracking system for CSS EPSC NOVs will be developed.
- Continued issuance of Wastewater Discharge Permits under the Industrial Pretreatment Program.
- will MSD continue to: facilitate clean sweep events and coordinate volunteers to remove trash and debris from the waterways Jefferson County; facilitate barrel sales rain in partnership with the Louisville Nature Center: and distribute prepare informational pieces targeted to inform customers and residents on activities



that can be practiced within their homes to assist in the reduction of overflows within the collection system; promote Green Infrastructure initiatives within Jefferson County, such as pervious pavement and aqua pavers; and distribute a rain garden manual outlining design and installation procedures for homeowners throughout the next reporting period. The Louisville Nature Center distributed 100 rain barrels in this quarter.

#### 1.9 NMC 8: Public Notification

• To reduce duplication, all public notification information will be reported in Section 4: Project WIN Program Activities for Public Outreach, Education, Notification and Participation.

## 1.10 NMC 9: Monitoring to Characterize CSO Impacts and the Efficacy of CSO Controls

- Continued to monitor the largest CSOs for flow volume to define the wet weather contribution of the overflows to the stream.
- Continued to collect stream flow, sonde and other environmental data sets for use in further characterization of the combined service area. Data is centralized in an Oracle database and routinely updated by staff.
- Predictive and real-time radar rainfall services are now online at MSD with 4-hour predictive rainfall estimates across 700 pixels countywide in addition to MSD's rain gage



network. These services streamline rainfall data transfer between MSD's rainfall data vendor and the Real Time Control interface and model simulation. The testing of this data transfer continued during this quarter and adjustments to the data delivery to improve performance are currently underway. MSD also receives monthly, calibrated radar rainfall data for use in historical event analysis and modeling simulations. A website was developed that allows MSD staff to view and export rainfall data as well as USGS stream monitoring data. Event notifications and alarms are being tested at several sites using customized parameters.

- Reviewed sampling data gathered during previous dry weather sampling events upstream and downstream of CSO206 and surrounding the 'Big Four' SSO elimination projects. Currently preparing for dry and wet weather sampling to establish baseline conditions prior to CSO and SSO elimination. An initial dry weather sampling event was captured during June 2009 and lab analysis results have been received. A wet weather sampling event was captured on September 20, 2009, and September 21, 2009, at the same locations.
- The 24 CSOs with flow monitors now report to MSD via telemetry. MSD staff is working with the new software system and available reports to analyze the data.
- The InfoWorks sewer model identified 14 additional CSOs that have AAOVs exceeding 10 million gallons per year due to increased modeling asset detail and the selection of a revised typical rainfall year. These additional CSOs are as follows: CSO174, CSO153, CSO149, CSO121, CSO119, CSO105, CSO97, CSO84, CSO58, CSO55, CSO50, CSO23, CSO18, and CSO16.
- In addition to these 14 CSOs, a group of active CSOs discharge into the Sneads Branch Relief Outfall. An inflatable dam within this relief structure maximizes the in-system storage; thereby minimizing overflow from the outfall to the stream.
- A couple of the CSOs discharging to the Sneads Branch Relief have AAOVs in excess
  of 10 million gallons; however, the majority of this overflow volume does not discharge to
  a stream due to the storage created by the inflatable dam. MSD is working on a
  calculated overflow volume for Sneads Branch using the water levels upstream and
  downstream of the dam. This calculated volume should be available by December 31,
  2009.
- A plan for monitoring flows at each location was developed by June 30, 2009. Flow
  meters and telemetry equipment are arriving at MSD and installation efforts are being
  coordinated. New meters will be installed at most locations prior to December 31, 2009.
  However, two sites, CSO023 and the Sneads Branch outfall, are not readily suited for
  flow meter installation. MSD staff is working on the development of an alternate
  monitoring or flow calculation plan for these two locations.
- Identify appropriate locations and develop an installation plan for additional CSS flow meters for use in improving CSS model calibration in areas that have poor calibration.
- Continue ecological database design and import historical biological, macro invertebrate and habitat assessment data.



- Begin review of RTC performance reports and model actual site performance and resultant AAOV reductions, then compare and report actual reductions to the modeled reductions cited in the Final Long Term Control Plan (normalized reduction comparison using rainfall amounts).
- Develop trending and regulatory performance reports for FY09 and FY10 for sites collecting dissolved oxygen and fecal coliform information.
- Define program to utilize the remote flow monitoring viewing capabilities to monitor for and provide quicker response to dry weather overflows, battery depletion, and meter drift.



## **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 resubmitted the revised SORP on May 12, 2006, and received an approval letter for the SORP on August 22, 2006. The most recent version is dated November 5, 2008, which received approval on January 14, 2009. The approved SORP document can be viewed on the MSD Project WIN website <a href="www.msdlouky.org/projectwin">www.msdlouky.org/projectwin</a>. The following activities were performed during this reporting period.

## 2.2 Overflow Management and Field Documentation

 Additional field reviews of SORP procedures will be scheduled after rain events to both ensure successful implementation and to assist with the annual SORP overall review.

A field review was conducted on September 22, 2009, to evaluate the response to the September 20, 2009, rain event. The overflows had already been cleaned and disinfected to a level that meets or exceeds the standard identified in the third quarter training.

 MSD I&FP staff routinely monitors 11 locations and takes preventive measures to reduce basement backups. Work orders are used to track these various activities.

During this period, MSD I&FP staff mobilized pumps on twelve different days.

 MSD continued to review the SORP field documentation manual so appropriate updates can be implemented.

- Overflow/wet weather inspection routes will continue to be reviewed and adjusted as part of the annual SORP review.
- Continued daily review, monthly review and quarterly reviews with staff from Metro Operations, Infrastructure & Flood Protection and Regulatory Services.
- MSD Regulatory Services (RS) staff and MSD Engineering staff routinely monitor approximately 139 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, MSD RS and Engineering staff found 78 unauthorized discharges. Inspection routes were run



during rain events on July 29, 2009, August 4, 2009, and September 20, 2009. During the next quarter routes will continue to be monitored as needed.

MSD Metro Operations (MO) continues to monitor over 300 sites via telemetry. There
are approximately 20 sites where sewage is routinely hauled from pump stations to
prevent overflows during rain events depending on the magnitude and location of the
storm. Due to capacity issues during this reporting period, MSD Metro Operations staff
hauled approximately 3,577,000 gallons of sewage.

## 2.3 Regulatory Reporting and Data Management

- MSD continued to improve the accessibility of data captured by the SCADA system for pump station and Real Time Control information. MSD continues to standardize various environmental data sets in preparation for integration with the SharePoint site.
- Monthly meetings continue to be held with staff to perform quality control on discharge work orders.
- The monthly review of discharge work orders was performed. The associated assets in Hansen were updated to track any new overflow locations.
- A detailed data review and trend analysis was performed and incorporated into the quarterly training and documented in Section 7 of this quarterly report.

## 2.4 Staff Training and Communication

• The third quarter SORP training classes focused on clean up and public notification.

One SORP class for RS and Engineering staff was held on September 17, 2009. Forty staff and contractors attended this training.

Two SORP classes for I&FP staff were held on September 18, 2009. Forty two staff attended this training.

Two SORP classes for MFWQTC staff were held on September 23, 2009, one SORP class was held on September 24, 2009, and two classes were held on September 30, 2009. One hundred and thirteen staff attended this training.

Two SORP classes were held for Metro Operations staff on September 16, 2009, and one class was held on September 17, 2009. Sixty-nine staff attended this training.

- The fourth quarter training will focus on overflow field documentation.
- The Annual SORP training will be held in the next quarter for all MSD staff.
- MSD continues to review and update the data associated with overflows.

#### 2.5 Annual Program Review

 MSD completed the annual review of the SORP document. There will not be any major changes to the document this year. MSD will continue to review data and update the



routes as needed. Route updates, if any, will be sent to EPA and KDEP when completed. Both EPA and KDEP were notified of this decision.

## 2.6 Public Notification and Communication

• To reduce duplication, all public notification information will be reported in Section 4: Project WIN Program Activities for Public Outreach, Education, Notification and Participation.



## **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 CSO Long Term Control Plan were submitted concurrently and certified on December 19, 2008, under the title of the Integrated Overflow Abatement Plan (IOAP). In response to questions from EPA and KDEP, MSD revised and clarified portions of the IOAP and resubmitted all three volumes with a revision date of June 19, 2009, as reported in Quarterly Report # 15.

The following IOAP activities were performed during this reporting period and planned for the next period:

- A meeting was held with representatives of EPA Region 4 and KDEP at MSD offices in Louisville on July 21, 2009. The purpose of this meeting was to discuss the June 19, 2009, re-submittal of the IOAP. The discussions were very productive, with many of EPA and KDEP's questions resolved during the meeting. Several questions did require further clarification or revision to the documents, however. The consensus of the meeting participants was that the clarifications and revisions were minor, and could be handled by replacing pages, rather than resubmitting the entire IOAP.
- Revisions to affected pages in each of the three volumes were submitted on August 21, 2009. The revised pages retained the June 19, 2009, submittal date, but pages with changes made after June 19 were so noted in the footer of each page that had been modified.
- A conference call was held with representatives of EPA Region 4 and KDEP on September 9, 2009, to discuss the August 21, 2009, revisions. Following the call, a series of email communications provided answers to questions raised during the call. MSD agreed to make two minor corrections to tables that were noted to have inconsistencies. It was agreed that these corrections would be made to the version of the IOAP that was submitted for final approval to the Court, and that replacement pages would not be required at this time.
- Verbal approval of the IOAP was received during a conference call on September 23, 2009. Following this call MSD made the table corrections noted above, and began assembling a submittal dated September 30, 2009, to accompany EPA and KDEP's recommendation for approval to the Court. This submittal will be transmitted to EPA, KDEP and DOJ by November 6, 2009.
- Following submittal to the Court, it is anticipated that another public comment period will be required prior to formal acceptance and incorporation of the IOAP into the Amended Consent Decree. In support of this MSD will prepare complete copies of the IOAP (including DVDs containing the Appendices) to be available for public review at MSD's Main Office Building, and at all branches of the Louisville and Jefferson County Free



Public Library system. DVDs of the entire IOAP will also be available for purchase through MSD's standard document distribution system. The IOAP (not including the Appendices) will also be posted on the Project WIN web site.

## 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.

All activities required under the Updated Sanitary Sewer Overflow Plan (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 <a href="https://www.msdlouky.org/projectwin">www.msdlouky.org/projectwin</a>.

Refer to **Appendix A** for a chart showing the schedule of the activities described in this section. **All projects are now listed by Budget ID in the chart.** Note that the schedule in **Appendix A** shows completion dates that are earlier than contained in the ISSDP. 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 ISSDP remain the committed dates for completion of the ISSDP projects.

The following activities were performed during this reporting period or planned for the next period.

Beechwood Village Sanitary Sewer Replacement (Budget IDs E07261 and E08034) - Beechwood Village East (Budget ID E07261) - This project was bid on January 7, 2009. As of September 30, 2009, the contractor has completed 217 of 328 (66%) of the house plumbing modifications, 238 new property





service connections (PSCs), completed 15,085 feet (100%) of cured-in-place pipe (CIPP) lining of the existing sewers and epoxy-lined 75 manholes. This project has removed 96 sump pumps from the sanitary sewer and closed 3 open yard/foundation drains that connected directly into the sewer. There has been 3,231 feet (80%) of 18-inch relief sewer installed. Beechwood Village West (Budget ID E08034) – This project was bid on June 9, 2009, and awarded on July 13, 2009. Notice to proceed was given on September 9, 2009. As of September 30, 2009, 3888 feet of 8640 feet (45%) of the 8-inch sewer line has received cured-in-place pipe lining. In the next reporting period work will continue on the CIPP and manhole epoxy lining. Both projects will be completed by April 27, 2011, in accordance with the ISSDP schedule and the Amended Consent Decree.

• The Sinking Fork Relief Sewer (Budget ID H08357) - This project extends the existing Sinking Fork Interceptor to provide an outlet for the Beechwood Village projects. This

project was bid on February 12, 2009. Construction on the interceptor has continued and is approximately 70% complete with 1400 feet of 24-inch sewer Two rock bores installed. totaling 488 feet have been completed. Pavement restoration has been completed on the section of interceptor that has been installed. During the next reporting period, the remaining interceptor will be installed: final testing and restoration will be completed.



Construction is scheduled to be completed by November 30, 2009. This project will be completed by December 30, 2010, in accordance with the ISSDP schedule and the Amended Consent Decree.

• Southeast Interceptor Relief Sewer (Budget ID H08358) - Construction will be required for a new relief interceptor parallel to the Southeast Interceptor from the Southeast Diversion Structure to the Northern Ditch Interceptor. A new junction structure will connect this relief sewer to the proposed Hikes Lane Interceptor and the existing Buechel Branch Interceptor. During development of the Final SSDP, alternatives were identified for the Upper Middle Fork Pump Station and the Jeffersontown WQTC that could impact the sizing of this relief interceptor, and require the addition of a flow equalization basin somewhere along the route. (The Buechel Basin will be addressed under separate paragraph.) Since the last report period, the design size of the interceptor has been determined and an alignment selected. Professional services have been acquired and 10% design completed for the Southeast Interceptor Relief Sewer. Easement acquisition has begun and is approximately 30% complete. The Interceptor will consist of 7800 feet of 60-inch sewer and 600 feet of tunnel. The design of the diversion structure is progressing and will be complete before the next reporting period.



The diversion structure and a short section of 72-inch connecting pipe will be constructed with the Hikes Lane Interceptor Phase I, discussed under separate paragraph. The construction to eliminate the Southeast Diversion overflow will be completed by December 2011, in accordance with the revised ISSDP schedule and the Amended Consent Decree. The Southeast Interceptor Relief Sewer project will be coordinated with the Highgate Springs and Hikes Point Area (Budget ID H07286 and H07287) projects with a completion date of May 12, 2012.

- Hikes Lane Interceptor & Highgate Springs Pump Station (Budget ID H07286) and Budget ID H07287) A route has been selected and the design work is 80% complete for the proposed Hikes Lane Interceptor and the Hikes Point Relief Sewer Improvements. The Hikes Lane Interceptor will be divided into Phase I and Phase II in order to allow bidding and construction to begin on the lower portion of the project while easement acquisition and final design continues on the upper section. Phase I, or the lower section has, 3 easements and includes the new diversion structure for the connection to the existing Southeast Interceptor and the new parallel interceptor. The final design of the Hikes Lane Interceptor and the Relief Sewer Improvements is expected to be complete by December 2009. The Carson-Ribble Sewer Relief Project has also been separated from the other projects in the Hikes Point Relief Sewer Improvements in order to expedite the construction. The Carson Ribble Project was awarded on June 22, 2009, and is now under construction. The entire project package will be completed by November 27, 2012, in accordance with the ISSDP schedule and the Amended Consent Decree.
- Northern Ditch Diversion Interceptor (Budget ID C85017) Improvements described in the previous paragraphs will result in significantly more wet weather flow in the Derek R. Guthrie WQTC and Morris Forman WQTC service areas. The proposed plan will include the installation of a new interceptor parallel to the Northern Ditch drainage channel, allowing wet weather flow to be diverted from the Morris Forman WQTC service area
  - (currently through the Northern Ditch Pump Station) to the Derek R. Guthrie WQTC. The improvement is divided into three phases. Construction of the first phase was awarded on May 26, 2009, and notice to proceed was given on June 15, 2009. Phase I consists of 6910 feet of 84-inch sewer and 102 feet of tunnel at National Turnpike. Phase II starts after the tunnel and includes 4770 feet of 84-inch pipe and a diversion structure at the existing 72-inch Northern Ditch Interceptor. Phase II bids were opened on August 20. 2009. The anticipated award date is



November 21, 2009, and anticipated notice to proceed date is January 4, 2010. The



entire project package will be completed by July 31, 2011, in accordance with the ISSDP schedule and the Amended Consent Decree.

Derek R. Guthrie WQTC Wet Weather Equalization and Treatment Project (Budget ID H06302) - The final design is continuing in three separate packages - Pumping Station, Treatment Facility, and the Equalization Basin. In this reporting period, the 60% plans for the Treatment Facility, Pumping Stations and the Equalization Basin were reviewed by MSD staff. MSD's comments were returned to the design engineers for the Treatment Facility and the Pumping Stations. Review of the Equalization Basin plans will continue into the next reporting period. MSD staff and design engineers also met with KDEP review staff to discuss the status of the Pumping Stations and the Treatment Facility and submitted a preliminary construction permit for their review and comment. In the next reporting period, MSD will receive the 90% contract documents of the Pumping Stations and the Treatment Facility, review and provide comment. In addition, it is expected to be advertising for a construction contract during the month of December 2009. MSD will continue to review the 60% plans for the Equalization Basin. In early October, MSD is planning to host a neighborhood Open House for residents living in a one mile radius of the Derek R. Guthrie WQTC to discuss future construction and tour the existing facilities. Construction of flow equalization and expanded secondary treatment to address the higher peak wet weather flows at the Derek R. Guthrie WQTC will be completed by December 31, 2011, in accordance with the ISSDP schedule and the Amended Consent Decree.

## 3.2.3 Final Sanitary Sewer Discharge Plan

MSD submitted for approval a Final Sanitary Sewer Discharge Plan (SSDP) on December 19, 2008, prior to the December 31, 2008, deadline as Volume 3 of the Integrated Overflow Abatement Plan (IOAP). As noted in Section 3.1, the Final SSDP was resubmitted on June 12, 2009. In response to additional questions from EPA and KDEP minor modifications were made to the Final SSDP on August 21, 2009. Verbal approval of the entire IOAP was received on September 23, 2009.

This section will report on the progress of the projects identified in the IOAP, Volume 3 – Final SSDP Projects. Refer to **Appendix A** for a chart showing the schedule of the activities described in this section. **All projects are now listed by Budget ID in the chart.** Note that the schedule in **Appendix A** shows completion dates that are earlier than contained in the Final SSDP. 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 submitted Final SSDP remain the committed dates for completion of the Final SSDP projects.

The following activities were performed during this reporting period or planned for the next period.

#### Cedar Creek Area

 Running Fox Pump Station Elimination (Budget ID H09178) – The project consists of diverting the existing sanitary sewer flow from the Running Fox Pump Station to an existing gravity sanitary sewer system via gravity flow. Decommissioning of the pump station is also included in this project. Design on this project was completed on April 28,



- 2009. This project is waiting on approval from the Kentucky Division of Water. Downstream impacts are currently being analyzed to ensure issues are not created due to the flow diversion. Easement acquisition is currently in process, and is scheduled to be completed by October 31, 2009. The project is scheduled for bidding by the end of December, 2009. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- <u>Little Cedar Creek Interceptor Improvements (Budget ID H09163)</u> SSES planning for this area has started. The Running Fox Pump Station will be eliminated within the next 14 months and the elimination of the Avanti Pump Station was substantially completed in this quarter. The flow from both stations is being diverted to this service area. These pump stations experience high wet weather flows. To address these flows and existing SSOs in the project area, the Little Cedar Creek SSES project (Budget ID H09389), was created to investigate this area in the Cedar Creek WQTC service area. An engineering consultant was selected and a request for proposal letter was issued September 15, 2009. During the next reporting period, final negotiations will be completed and a notice-to-proceed will be issued to begin the SSES project. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation for this project. All phases of the project will be completed by December 31, 2024, in accordance with the IOAP schedule and the Amended Consent Decree.

#### **Hite Creek Area**

- Floydsburg Road Pump Station I&I Investigation and Rehabilitation (Budget ID H09172)

   The planning for this project has started. A project area and scope was developed for an SSES project in this area. The Floydsburg Road Pump Station is in the Meadow Stream Pump Station service area. Flow from this area goes to the Hite Creek WQTC. The Hite Creek SSES (H09394) was created and expanded to include all of the Meadow Stream service area. An SSES will be completed on the entire Meadow Stream service area because it includes three projects in the SSDP. The SSES project will look for sources of I/I reduction for the following SSDP projects: Floydsburg Road I/I Investigation and Rehabilitation Project, the Kavanaugh Road Pump Station Improvements Project (Budget ID H09171) and the Meadow Stream Pump Station Inline Storage Project (Budget ID H09174). An engineering consultant was selected and an RFP letter was issued September 30, 2009. During the next reporting period final negotiations will be completed and a notice-to-proceed will be issued to begin the SSES project. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- Meadow Stream Pump Station In-line Storage Project (Budget ID H09174) The planning for an SSES project for this area has started. Please see the above Floydsburg Road Pump Station I&I Investigation and Rehabilitation project information. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by December 31, 2016, in accordance with the IOAP schedule and the Amended Consent Decree.



• Kavanaugh Road Pump Station Improvements Project (Budget ID H09171) - The planning for an SSES project for this area has started. Please see the above Floydsburg Road Pump Station I&I Investigation and Rehabilitation project information. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by December 31, 2024, in accordance with the IOAP schedule and the Amended Consent Decree.

#### Floyds Fork Area

- Ashburton Pump Station Improvements and Diversion (Budget ID A09092) This project will address overflows at Ashburton and Olde Copper Court Pump Stations by diverting flow from Ashburton PS through 475 LF of upsized force main to an 8-inch gravity sewer system in a neighboring subdivision. Draw-down testing indicated that pump condition and release valve issues may be limiting pump station capacity. In response to the need to correct an existing maintenance issue at the pump station, this project has been accelerated from what is shown in the Final SSDP. A new 3-inch FM will be installed in place of the existing 2-inch FM. MSD Contract No. 2009-073 was advertised on July 21, 2009, bid on August 5, 2009, and a notice to proceed was issued on August 31, 2009. Construction is scheduled to be substantially complete on October 12, 2009. All phases of the project are currently targeted to be completed well in advance of December 31, 2021, in accordance with the IOAP schedule and the Amended Consent Decree.
- Eden Care Pump Station SSO Investigations (Budget ID H09170) SSES planning for this area has started. An engineering consultant was selected and an RFP scoping meeting was held September 16, 2009. During the next reporting period an RFP will be sent to the consultant, final negotiations will be completed and a notice-to-proceed will be issued to begin the SSES project. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by December 31, 2012, in accordance with the IOAP schedule and the Amended Consent Decree.

#### Jeffersontown Area

• Raintree and Marian Court Phase 1 - Pump Station Eliminations (Budget ID H09180) - Both these pump stations will be eliminated by a private development project. Design includes 320 linear feet of 8-inch diameter sewer to eliminate Marian Court Pump Station and 410 linear feet of 8-inch diameter sewer to eliminate Raintree Pump Station. Final design and easement acquisition have been placed on hold by the developer. Economic conditions have affected the schedule. Since this project is being completed by a private developer it has not been assigned a Budget ID and it does not appear on MSD's project management schedule. MSD is monitoring the developer's progress, and will self-perform this project is needed to ensure that all phases of this project will completed in advance of the December 31, 2021 date in the IOAP schedule.

## **Beargrass Creek Middle Fork Area**

 Upper Middle Fork #1- Buechel Basin (Budget ID H07288) – This project consists of construction of a flow equalization basin on a 96-acre parcel of land in the Jennings



Lane/Produce Road area (hereinafter referred to as the Buechel Site). The project will provide an outlet for the ISSDP proposed Southeast Diversion Relief Interceptor and will provide capacity for surcharge from the Northern Ditch Interceptor during wet weather. Property for the basin was purchased on August 27, 2009, and Phase II Environmental Assessment has been completed. Negotiations for design of the basin will begin in November 2009. The project will be completed by December 2013, in accordance with the IOAP schedule and the Amended Consent Decree.

• Hurstbourne I&I Investigation and Rehabilitation (Budget ID H09219) - The planning phase has started for this project. This project area was included in the Lower Middle Fork Interceptor ICA Phase 2 project that was completed in April 2009. The ICA discovered several defects in the Lower Middle Fork Interceptor that correspond to the sanitary sewer overflows (SSOs) associated with this project. During August, rehabilitation work was planned with recommendations and quantities. During the next reporting period the rehabilitation recommendations will be finalized and planning will begin to develop construction documents. All phases of the project will be completed by December 31, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.

#### **Southeastern Diversion Area**

Beargrass Interceptor Rehabilitation Phase 2 (Budget ID H09239) – The planning for this project has started. Staff reviewed the rehabilitation completed under Phase 1 to prioritize remaining work to be completed under Phase 2. During the next reporting period the project rehabilitation scope will be finalized and staff will begin the preparation of bid documents. The project is schedule to be advertised for construction Spring 2010. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.

#### **Pond Creek Area**

- Charleswood Interceptor #23 Project (Budget ID C94103) / Cooper Chapel Road Widening This is a joint project with Louisville Metro Public Works. This project will be constructed under a Metro Public Works Contract. The project includes the construction of an interceptor, elimination of the Cooper Chapel pump station, and construction of collector sewers for unsewered properties in the area. This project is in the easement acquisition stage, approximately 85%. Since the last reporting period, Metro Public Works has delayed its construction schedule for the road project. The anticipated advertisement date is October 10, 2009. Despite the road project delay, all phases of the project are targeted to be completed well in advance of December 31, 2022, in accordance with the IOAP schedule and the Amended Consent Decree.
- Avanti Pump Station Elimination (Budget ID A09090) The project consists of diverting the existing sanitary sewer flow from the Avanti Way Pump Station to an existing gravity sanitary sewer system via gravity flow. This revised route results in the flow being diverted from the Derek R. Guthrie WQTC to the Cedar Creek WQTC for treatment. Decommissioning of the pump station is also included in this project. In response to maintenance issues with this pump station the project has been accelerated to avoid a costly rehabilitation of the facility planned to eventually be eliminated. The project design



was submitted to the Kentucky Division of Water for approval on March 23, 2009. Approval was received on April 13, 2009. The project was awarded on May 27, 2009, and the Notice-to-Proceed for the construction of this project was issued on June 15, 2009. Project is now substantially complete with the flow diverted on July 16, 2009. All phases of the project are currently targeted to be completed well in advance of December 31, 2021, in accordance with the IOAP schedule and the Amended Consent Decree.

- Government Center Pump Station Elimination (Budget ID H09194) -This project consists of diverting existing sanitary sewer flow from the Government Center Pump Station to an existing 15-inch diameter sanitary sewer line via gravity flow. Decommissioning of the existing pump station is also included in this project. In response to maintenance issues with the existing pump station this project has been accelerated to avoid the need for a significant rehabilitation of a pump station scheduled for elimination. Design started on August 15, 2009, and is currently at a 30% design stage. All phases of the project are targeted to be completed well in advance of December 31, 2024, in accordance with the IOAP schedule and the Amended Consent Decree.
- Lantana Pump Station Investigation and Rehabilitation (Budget ID H09193) SSES planning for this area has started. This project will be completed under the Lea Ann Way SSES project (see Lea Ann Way System Improvements Project). An engineering consultant was selected and an RFP letter was sent on September 3, 2009. The consultant submitted their proposal on September 25, 2009, and MSD began negotiation discussion. During the next reporting period final negotiations will be completed and a notice-to-proceed will be issued to begin the SSES project. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by December 31, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.
- Edsel Pump Station I/I Investigation and Rehabilitation (Budget ID H09197) SSES planning for this area has started. This project will be completed with the Little Cedar Creek SSES project (see above Little Cedar Creek Interceptor Improvements Project). An engineering consultant was selected and an RFP letter was issued September 15, 2009. During the next reporting period final negotiations will be completed and a notice-to-proceed will be issued to begin the SSES project. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by September 30, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.
- Lea Ann Way System Improvements (Budget ID C08433) SSES planning for this project has started. The Lea Ann SSES project (Budget ID H09096) was created to investigate this area. An engineering consultant was selected and an RFP letter was sent on September 3, 2009. The consultant submitted their proposal on September 25, 2009 and MSD began negotiation discussion. Also during this period, a work order was negotiated and executed on August 21, 2009, for Interceptor Condition Assessment



(ICA) services for 28,788 LF 15 to 30-inch diameter interceptor lines in the Lea Ann Way service area with an engineering consultant. The ICA contractor, a sub-consultant, completed all of the field TISCIT inspections during September. During the next reporting period, the ICA contractor will complete all remaining field inspections and the consultant will assess the data, and start developing the draft ICA report for MSD review. During the next reporting period final negotiations will be completed and a notice-to-proceed will be issued to begin the SSES project. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by December 31, 2015, in accordance with the IOAP schedule and the Amended Consent Decree.

#### **Ohio River Force Main Area**

- Mellwood System 1 Mellwood Pump Station and Force Main (Budget ID A09556) The project consists of constructing a new 3 MGD pump station facility and force main upgrades to replace the existing Mellwood Pump Station. The pump station facility lies in the Ohio River Floodplain, thus requires significant design criteria. To address immediate issues with the pump station condition and provide for cost-sharing opportunities with a potential developer this project has been divided into phases, and the pump station replacement phase accelerated from the schedule shown in the Final SSDP. Negotiations have been finalized and a contract executed for the design of this project. The design of Phase I is at the 30% stage. Phase I construction will be completed by December 31, 2012 and all phases of the project will be completed by December 31, 2024, in accordance with the IOAP schedule and the Amended Consent Decree.
- Prospect #1 WQTC Elimination (Budget ID multiple) A plan to eliminate the five WQTC's serving the Prospect area was approved by EPA and KDEP on September 24. 2009. This plan included five separate phases of work to accomplish the elimination of the treatment facilities in the Prospect area. The phases include pump stations and force mains to eliminate the Hunting Creek North and Shadow Wood WQTCs, a River Road Interceptor (Budget ID D94210) to transport the Hunting Creek North flow to a new, third pump station near the existing Ken Carla WQTC, a new Harrods Creek Interceptor (Budget ID D00249) to transport the Hunting Creek South and the Timberlake WQTC to the proposed pump station at the existing Ken Carla WQTC (Budget ID D94206). The proposed regional pump station near the Ken Carla WQTC would then be connected to MSD's Hite Creek WQTC via a new force main. Notice to proceed was issued on July 10, 2009, for the preliminary design that will finalize the needed infrastructure and determine the necessary capacity. Alternate alignments and preliminary pump station design are scheduled to be complete by November 30, 2009. Final design will determine the need for easements based on the final alignment of the interceptors and force main. However some sections are progressing ahead of the overall schedule and the site for the main pump station has been located and is in negotiations for purchase at present. Anticipated closing of the pump station site is January, 2010. Final design of the previously prepared plans for the River Road Interceptor is nearly complete. The River Road Interceptor should be out for bid by the



spring of 2010. Easement plats for this section have been finalized and easement acquisition is scheduled to begin in November, 2009. All phases of the project will be completed by December 31, 2015, in accordance with the IOAP schedule, approved elimination plan, and the Amended Consent Decree.

#### Mill Creek Area

- East Rockford Lane Pump Station Relocation (Budget ID A09091) The project consists of relocating the pump station facility, as well as increasing the size of existing pumps and force main. In response to maintenance issues with the existing pump station this project has been accelerated to avoid the need for a significant rehabilitation of a pump station scheduled for replacement. A notice to proceed for design was issued on June 26, 2009. Design has reached the 60% stage and should reach the 100% stage in the next reporting period. All phases of the project are targeted to be completed well in advance of December 31, 2021, in accordance with the IOAP schedule and the Amended Consent Decree.
- Shively Interceptor (Budget ID B06208) This project will eliminate five pump stations within the City of Shively. The project consists of the installation of approximately 19,000 LF of interceptor which may range in size from 8-inch to 27-inch diameter. The 90% design plans have been submitted to MSD for review. Easement acquisition started September 16, 2009, and approximately 50% of the easements have been acquired. During the next reporting period this project is scheduled to be advertised for bid. All phases of the project will be completed by December 31, 2014, in accordance with the IOAP schedule and the Amended Consent Decree.

## **Combined Sewer System Area**

- Camp Taylor # 1 SSES (Budget ID H09201) The planning for this project has started. A design consultant has been selected to begin the Camp Taylor SSES Project (Budget ID H09388). A request for proposal letter was issued on August 20, 2009. A proposal was submitted on September 4, 2009. MSD entered into negotiations with the design consultant September 10, 2009. A contract was finalized for the consultant to begin field review and data collection to develop a project plan for the completion of the SSES. A notice-to-proceed is scheduled to be issued on October 19, 2009, for the field review and data collection. Once complete, the field data collected will be used to finalize the SSES project plan. Final contract negotiations will then be held so that a notice-to-proceed can be issued for the SSES services. All phases of the project will be completed by December 31, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.
- Camp Taylor #2 Sewer Replacement (Budget ID H09220) The planning for this project has started. A work order was negotiated and executed with an engineering consultant on August 21, 2009, for Interceptor Condition Assessment (ICA) services for 12,649 linear feet (LF) of 15 to 27-inch diameter interceptor lines in the Camp Taylor area. The ICA contractor, a sub-consultant, completed 9,460 linear feet of field TISCIT inspections during September. During the next reporting period, the ICA contractor will complete all remaining field inspections and the consultant will assess the data, submitting a draft ICA report for MSD review. All phases of the project will be completed by December 31,



2013, in accordance with the IOAP schedule and the Amended Consent Decree.

- Sonne Pump Station I&I Investigation and Rehabilitation (Budget ID H09187) The
  planning for this project has started. A project area and scope was developed for an
  SSES project. An engineering consultant was selected to complete an SSES project for
  the pump station service area. During the next reporting period, an RFP letter will be
  sent to the consultant and a contract will negotiated for the SSES services. All phases
  of the project will be completed by June 30, 2011, in accordance with the IOAP schedule
  and the Amended Consent Decree.
- <u>Hazelwood Pump Station I/I Investigation and Rehabilitation (Budget ID H09181)</u> SSES planning for this area has started. An engineering consultant was selected and a SSES project was created for the area. During the next reporting period a RFP will be sent to the consultant, final negotiations will be completed and a consultant contract will be prepared for award in early 2010. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by June 30, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.

#### **Small WQTC Areas**

- Lake Forest Pump Station SSO Investigation (Budget ID H09173) SSES planning for this area has started and the Lake Forest SSES Project (Budget ID H09396) was created. An engineering consultant was selected and an RFP scoping meeting was held on September 30, 2009. This Pump Station is in the Lake Forest SSES project area. During the next reporting period an RFP will be sent to the consultant, final negotiations will be completed and a notice-to-proceed will be issued to begin the SSES project. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by December 31, 2012, in accordance with the IOAP schedule and the Amended Consent Decree.
- Riding Ridge PS Improvements (Budget ID H09175) The planning for this project has started. A project area and scope was developed for an SSES project in this area. The Riding Ridge Pump Station is in the North Hunting Creek WQTC service area. The Prospect Area SSES (H09391) was created and expanded to include all of the North Hunting Creek and Hunting Creek South WQTC service area. An SSES will be completed on the entire service area because it includes three projects in the SSDP. The SSES project will look for sources of I/I reduction for the following SSDP projects: Riding Ridge PS Improvements (Budget ID H09175), the Gunpowder PS Inline Storage Project (Budget ID H09242), the Fox Harbor Inline Storage Project (Budget ID H09176) and the Fairway View PS Improvements Project (Budget ID H09177). An engineering consultant was selected and an RFP scoping meeting was held on September 28, 2009. During the next reporting period an RFP letter will be issued and final negotiations will be begin for the SSES project. All phases of the project will be completed by December 31, 2014. in accordance with the IOAP schedule and the Amended Consent Decree.
- Gunpowder Pump Station In-line Storage Project (Budget ID H09242) The planning for an SSES project for this area has started. Please see the above Riding Ridge Pump



Station Improvements project information. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by December 31, 2021, in accordance with the IOAP schedule and the Amended Consent Decree.

- Fox Harbor Inline Storage Project (Budget ID H09176) The planning for an SSES project for this area has started. Please see the above Riding Ridge Pump Station Improvements project information. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by December 31, 2021, in accordance with the IOAP schedule and the Amended Consent Decree.
- Fairway View Pump Station Improvements Project (Budget ID H09177) The planning for an SSES project for this area has started. Please see the above Riding Ridge Pump Station Improvements project information. Any potential I/I reduction determined from the SSES project results and any completed remediation will be monitored and included in the final design evaluation of this project. All phases of the project will be completed by December 31, 2014, in accordance with the IOAP schedule and the Amended Consent Decree.

#### **Other Projects**

• For CPE/CCP modification projects refer to **Section 6.5: Comprehensive Performance Evaluations and Composite Correction Plans** 

## 3.3 CSO Long Term Control Plan

The CSO Long Term Control Plan (LTCP) will address 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 <a href="https://www.msdlouky.org/projectwin">www.msdlouky.org/projectwin</a>.

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, prior to the December 31, 2008, deadline as Volume 2 of the Integrated Overflow Abatement Plan (IOAP). As noted in Section 3.1 the Final CSO LTCP was resubmitted on May 29, 2009. In response to questions from EPA and KDEP minor modifications were submitted on August 12, 2009. Verbal approval of the entire IOAP was received September 23, 2009.

This section will report on the progress of the projects identified in the IOAP, Volume 2 – Final



CSO LTCP. Refer to **Appendix A** for a chart showing the schedule of the activities described in this section. **All projects are now listed by Budget ID in the chart.** Note that the schedule in **Appendix A** shows completion dates that are earlier than contained in the Final LTCP. 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 Final LTCP submitted on May 30, 2009, and adjusted by the August 21, 2009, modifications, remain the committed dates for completion of the Final LTCP projects.

The following activities were performed during this reporting period or are planned for the next period.

## 3.3.2.1 Green Demonstration Projects

- MSD Main Office Parking Lot Bioswale (Budget ID H09424) Planning for this project is underway and will continue in the next quarter. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- Seventh and Cedar Green Parking Lot (Budget ID H09425) Planning for this project is underway and will continue in the next quarter. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- <u>Second and Broadway Green Parking Lot (Budget ID H09426)</u> Planning for this project is underway and will continue in the next quarter. All phases of the project will be

completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.

- Third and Ormsby Biofiltration Swales
   (Budget ID H09427) Planning for this
   project is underway and will continue in the
   next quarter. All phases of the project will
   be completed by December 31, 2010, in
   accordance with the IOAP schedule and the
   Amended Consent Decree.
- Sixth and Muhammad Ali Green Parking Lot (Budget ID H09428) – Planning for this project is underway and will continue in the next quarter. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- Sixth and Broadway Rain Garden (Budget ID H09429) - Planning for this project is underway and will continue in the next quarter. All phases of the project will be





completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.

- Seventeenth and W Hill Permeable Alley (Budget ID H09430) Planning for this project is underway and will continue in the next quarter. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- Seventh and Market Permeable Alley (Budget ID H09431) Planning for this project is underway and will continue in the next quarter. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- <u>Campbell and Main Permeable Alley (Budget ID H09432)</u> Planning for this project is underway and will continue in the next quarter. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- Twelfth and Jefferson Green Street (Budget ID H09433) Planning for this project is underway and will continue in the next quarter. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- Two (2) Additional Rain Garden Projects (Budget ID H10039 and H10040) Planning for this project is underway and will continue in the next quarter. All phases of these projects will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.

#### 3.3.2.2 Gray Infrastructure Projects

- Logan Street Basin (Budget ID H09142) This project consists of an 11.83 MG underground storage basin, and approximately 5,000 LF of new interceptor sewers. The preliminary design study is in progress and will evaluate available/alternative technologies and establish some level of design protocols for the other 12 CSO basin designs. This study will provide a design of the basin to a 30% stage. The study is 45% complete. Surveying and geotechnical field work is currently underway along the proposed location of the interceptor line and at the storage basin site. Alternatives for the basin site and the CSO interceptor alignment have been investigated. Trenchless alternatives have been reviewed for interceptor construction. A draft report of the Phase I Environmental Assessment, historical and archaeological review, and permit requirements has been completed. The preliminary design study will continue in the next report period. All phases of the project will be completed by December 31, 2017, in accordance with the IOAP schedule and the Amended Consent Decree.
- <u>CSO108 Dam Modification (Budget ID H09128)</u> Planning for this project is underway and design will begin in the next quarter. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.



- <u>CSO206 Downspout Disconnections (Budget ID H09131)</u> Planning for this project to disconnect downspouts is underway and will continue in the next quarter. All phases of the project will be completed by December 30, 2013, in accordance with the IOAP schedule and the Amended Consent Decree.
- <u>I-64 and Grinstead Drive Storage Basin (Budget ID H09121)</u> A request for proposal has been sent to a design consultant and is due October 9, 2009. During the next reporting period, negotiations will begin for final design. Final design negotiations, award and a notice to proceed will be completed by January 31, 2010. All phases of the project will be completed by December 31, 2014, in accordance with the IOAP schedule and the Amended Consent Decree.
- Paddy's Run Wet Weather Treatment Facility (Budget ID H09124) MSD will begin to review the scope of work needed to initiate this design work and begin the professional services selection process in the next quarter. All phases of the project will be completed by December 31, 2014, in accordance with the IOAP schedule and the Amended Consent Decree.

#### Flood Pump Station Projects

- 34<sup>th</sup> Street Flood Pump Station (Budget ID H08478) The final design contract was awarded on July 11, 2009, for the gate automation modifications design for the 34th Street Flood Pump Station. The design notice-to proceed was issued on July 20, 2009. A 50% design submittal is scheduled for October 19, 2009. All phases of the project will be completed by December 31, 2012, in accordance with the IOAP schedule and the Amended Consent Decree.
- 4<sup>th</sup> Street Flood Pump Station (Budget ID H08477) The final design contract was awarded on July 11, 2009, for the gate automation modifications design for the 4th Street Flood Pump Station. The design notice-to-proceed issued on July 20, 2009. A 50% design submittal is scheduled for October 30, 2009. All phases of the project will be completed by December 31, 2012, in accordance with the IOAP schedule and the Amended Consent Decree

#### 3.4 Post Construction Compliance Monitoring Program

Within the Integrated Overflow Abatement Plan, monitoring efforts that will support the impact evaluation of the plan implementation are discussed in Volume 1, Section 6.5 Post Construction Compliance Monitoring. These efforts will be incorporated into MSD's overall system and environmental data management planning and activities, which support various MSD initiatives including operational support, the Municipal Separate Storm Sewer System program, water quantity and quality modeling, and a range of regulatory reporting and trending requirements as well as overflow abatement impact analyses related to the IOAP.

The primary activity elements associated with the monitoring program are as follows:

- 1. Environmental Data Integration Site Development
- 2. Quality Assurance and Quality Control Definition and Implementation
- 3. Green Demonstration Project & Programmatic Monitoring and Assessment



- 4. Sewer Hydraulic and Stream Water Quality Modeling for Impact Analyses
- 5. Water Quality Sampling for IOAP Projects and the Long Term Monitoring Network
- 6. Sewer Flow Monitoring Network Expansion
- 7. Stream Flow & Ambient Monitoring
- 8. Rain Gauge and Radar Rainfall Data Collection
- 9. Fish, Algae, Macroinvertebrate and Habitat Surveys
- 10. Regulatory Reporting Support

The following is a brief discussion of recent and upcoming activities related to each element:

- Environmental Data Integration Site Development MSD has defined the integrated site needs and the concept of centralizing the access to its numerous monitoring data sets rainfall, sewer flow, stream data, plant information data from SCADA, etc. Negotiations to begin the development of the site are underway and will be completed by March 31, 2010.
- Quality Assurance and Quality Control Definition and Implementation MSD has been
  working to develop standard QA/QC procedures for various data sets and set a
  frequency for data review. In addition, proactive data notification processes are being
  tested that will allow the real-time data sets to notify MSD staff when certain conditions
  are recorded in the field. MSD will begin to formally document and define the QA/QC
  procedures that either exist or need to be developed for each data set intended to be
  part of the integrated data site.
- Green Demonstration Project & Programmatic Monitoring and Assessment MSD has identified the green demonstration projects as part of the IOAP and will perform case studies on the effectiveness of these projects on stormwater reduction into the combined sewer. By December 31, 2009, MSD will identify equipment needs for each project and develop an installation plan and timeline for each that will capture the data needed to perform the case study. The ongoing sewer flow monitoring network expansion, which will add significant in-system and CSO meters to MSD's network, will aid in assessment of the programmatic watershed effects of the green program as projects are completed. Additional watershed monitoring needs will be defined in the next fiscal year.
- Sewer Hydraulic and Stream Water Quality Modeling for Impact Analyses MSD has built calibrated sewer hydraulic models for all service areas as well as water quality models for Beargrass Creek and the Ohio River. These models were used extensively in the development of the IOAP. By December 31, 2009, negotiations for sewer modeling services will be completed to address model cleanup, further standardization, and additional calibration to new flow information. The models will be used as the IOAP is implemented to aid in design decisions and systematic impacts and performance.
- Water Quality Sampling for IOAP Projects and the Long Term Monitoring Network Dry and wet weather sampling has been performed over past few months surrounding the



'Big 4' SSO areas as well as CSO206. By December 31, 2009, MSD will assess the data collected to date around these project areas and initiate further sampling if deemed necessary. Additionally, MSD will identify a timeline for wet weather sampling across the Long Term Monitoring Network as noted in the IOAP. Recreational contact sampling will continue throughout this same network 5 times per month during the recreational contact season.

- Sewer Flow Monitoring Network Expansion As noted previously in this report, MSD is currently testing new telemetry software on its system. 18 CSO sites now report through this Telog enterprise software system, in addition to the CSOs reporting through SCADA. Approximately 50 additional sites, both in-sewer and CSOs, will be installed by December 31, 2009, and will report through this system.
- <u>Stream Flow & Ambient Monitoring</u> MSD's partnership with the USGS continues annually with a cost share and resource share for the maintenance of stream flow gages and data sondes that are installed at the Long Term Monitoring Network locations. This data is reported by telemetry to the USGS public website as well as MSD's internal Contrail website. These monitoring efforts will continue through the next quarter.
- Rain Gauge and Radar Rainfall Data Collection MSD has an established rain gauge network of 17 gauges that report data every 5 minutes through telemetry. In addition, MSD receives 4-hour predictive and real time radar rainfall data from a vendor across approximately 700, 1 square kilometer pixels that cover the county. The vendor also delivers a gauge-adjusted radar rainfall data set at the end of each month. This data is used to support operational decisions as rain events are approaching and are occurring. The Real Time Control system also utilizes the rainfall data to run simulations and develop set points for control sites throughout the combined sewer system. The radar rainfall is also used for modeling simulations that support various planning and design decisions. MSD will continue to collect this data and will also complete an evaluation of its current rain gauge network that will review new equipment needs, network gaps, and weather service reporting needs.
- Fish, Algae, Macroinvertebrate and Habitat Surveys MSD has completed the fish, macroinverterbrate and habitat surveys for the Long Term Monitoring Network recently and will collect this information every other year as identified in the IOAP. MSD is currently working to complete an ecological database to house this information as it is collected in order to keep a cleaner historical record of this complex information. This effort will continue through the next quarter along with contract negotiations with the University of Louisville to complete an algae analysis for collected data.

The environmental data collection program will continue to mature over the next quarter. MSD will be meeting regularly throughout the quarter to discuss environmental data needs of the utility, upcoming reporting needs, and the direction of the different program aspects.



# **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 on the objectives of Project WIN and how to lessen the risks associated with coming into contact with sewage overflows. The following activities occurred within this reporting period or are scheduled to occur.

## 4.1.1 Overflow Advisory Signs

 MSD installed interpretive signage for SORP education at Big Rock, in Cherokee Park on September 30, 2009.

# 4.1.2 Project WIN Website

MSD continues to post Project WIN information on the website. On MSD's home page, the Project WIN area provides important information on the condition of area streams and shows a warning if overflows



are likely to be happening or have happened in the past 48 hours. Clicking on the Project WIN logo brings up the Project WIN site, which includes a repository of public documents related to Project WIN, tips for customers to help control overflows through their personal actions, information about the history and background of Project WIN and a place to sign up for overflow advisory emails warning when significant precipitation has caused overflows in MSD's system. This website can be found at www.msdlouky.org/projectwin.

- MSD staff has updated the MSD website with a special notice regarding the plumbing modification program that is available free to customers and is aimed at reducing I&I.
- MSD has developed a website to facilitate communication with customers on the <u>Beechwood Village</u> (Budget IDs E07261 and E08034) project. The site is available with a link on the Project WIN website. Select Construction Projects to link to the website. <u>http://inet.msdlouky.org/bwvillage/default.asp</u>



 MSD is developing a website to facilitate communication with customers on the <u>Camp Taylor SSES project</u>. The site will be available with a link on the Project WIN website in the next quarter.



#### 4.1.3 Electronic Notifications

- Customers who voluntarily sign up to receive email alerts regarding sewer overflows will
  now receive a revised notice that indicates when overflow conditions have returned to
  normal. MSD also sends out notification on dry weather unauthorized discharges of
  over 1000 gallons.
- During this period there were 12 Dry Weather Unauthorized Discharges of more than 1000 gallons. These events required additional notification due to the volume of dry weather overflow involved.

#### 4.1.4 Print Notifications

- MSD sent out a bill insert with Project WIN information to MSD customers with this
  quarter's billing statements focusing on FOG issues, the recent rate increase and rain
  gardens. See <u>Appendix I</u> for a copy of this insert.
- MSD's Customer Relations Department mailed 3,700 Project WIN information packets to customers who called with questions about the Amended Consent Decree – specifically regarding overflows, discharges, plumbing modification and the surcharge fee. In addition, approximately 1150 packets were distributed at public meetings or provided to FEMA.
- MSD's IWD Department sent out 778 FOG residential public outreach letters to 3 areas that had FOG issues during this reporting period.
- MSD handed out FOG related information to the general public at the annual Jeffersontown Gaslight Festival on September 18-20, 2009.

#### 4.2 Public Outreach Programs

MSD has developed a public outreach program aimed at involving the public on MSD's primary business functions with emphasis on wastewater, stormwater and flood protection. The following activities occurred within this reporting period or are scheduled to occur.

### 4.2.1 Radio and Television Activities

- Living Better with Cindi Sullivan a remote broadcast was held on August 8, 2009, at the MSD main office to discuss native plants and a rain garden installation.
- Thirty second radio commercials on WHAS Radio highlighting MSD tips and/or initiatives airing June through August, 3 times per week Monday - Friday from 6:00 am - 7:00 pm and 1 time per week on Saturdays from 9:00 am - 11:00 am.
- Online web streaming on WHAS Radio highlighting MSD tips and/or initiatives ran June August, 10 times per week Monday Friday from 7:00 am 6:00 pm.
- MSD will continue to run TV spots during the Troubleshooter Show (WAVE TV) on Mondays 10:30 am - 11:00 am. Spots are scheduled to run once a week through the end of December. The commercial focused on FOG issues.



- MSD will begin running TV spots on WLKY TV in October. The first spots through the end of October pertain to Stormwater. Beginning in November through December, the spots will focus on the FOG program.
- MSD's Executive Director appears on WAVE 3 Listens once each quarter. The appearances are on February 5, 2009, April 14, 2009, July 7, 2009, and October 6, 2009.
- Continuation of efforts to utilize various media outlets, including television, radio and the newspaper, to serve as a conduit for disseminating information to the public.
- Metro TV (Channel 25) continues to periodically show the Project WIN 2008 video series - a series of seven videos to inform the public about MSD, the Amended Consent Decree and Project WIN.
- MSD's Executive Director recorded new radio scripts that were used throughout the summer asking citizens to reduce the amount of water used during rain events, refraining from contact with waterways for 48 hours after rain events and help improve stream water quality in the local area with customer investment.
- A discussion was held with local experts on rain gardens & collecting rain water in August 2009 on WFPL Public Radio State of Affairs.

### 4.2.2 Printed Media Activities

- Advertisements to inform the public on Project WIN activities are published in *Business First, Today's Woman*, and in *Louisville Magazine*.
- MSD Update is sent to customers and staff each month. Project WIN related articles are contained in each issue. These publications are available on the MSD Web site.
- MSD placed Project WIN ads in the "Her Magazine" (a publication put out by Courier Journal) in the Summer 2009 and Fall 2009 issues. In the next quarter an ad will be placed in the Holiday 2009 issue.
- MSD ran an ad this quarter in the U of L magazine.

## 4.2.3 IOAP Project and Program Meetings

- During this reporting period there were no Project WIN public meetings.
- An "open house" at the Derek R. Guthrie Water Quality Treatment Center is scheduled for October 3, 2009. Invitations will be sent to local residents, elected officials and other interested parties, and notices of the open house will be posted on MSD's web site. The purpose of the open house is to explain upcoming improvement projects, and receive public input on the planned modifications.
- MSD committed to keeping the WWT informed on the progress of the IOAP. The first
  progress update meeting is planned for December 2009. At this meeting MSD will
  describe the IOAP approval process and status. The implementation schedule will be
  reviewed, and the status of current and upcoming projects will be discussed.



- All information provided to the WWT is available on the Project WIN website, at www.msdlouky.org/projectwin.
- MSD staff attended or will attend the following "Mayor's Community Conversations"

July 20, 2009 - Carter Elementary School, 3600 Bohne Avenue August 17, 2009 - Fairdale High School small gym, 1001 Fairdale Road September 21, 2009 - Atherton High School small gym, 3000 Dundee Way October 19, 2009 - Southern High School large gym, 8620 Preston Highway November 16, 2009 - Central High School large gym, 1130 W Chestnut Street

## 4.4 Public Education Programs

MSD has developed a public education program aimed at expanding the public's knowledge on MSD's primary business functions with emphasis on wastewater, stormwater and flood protection. The following activities occurred within this reporting period or are scheduled to occur.

## 4.3.1 Green Infrastructure Workshops and Activities

- Rain Garden workshops are scheduled at various times throughout the year.
- MSD announced the MSD Tree Program in August 2009.
- The rain garden at the MSD main office building was constructed from June to August 2009.
- A presentation for the Partnership for a Green City to the Kentucky Association for Environmental Education was held on September 18, 2009.

# 4.3.2 Clean Streams Workshops and Activities

 EcoDrama and Basin Marking – a week long program for third grade students that focused on teaching land and water pollution prevention was held for approximately 250 students and their teachers in August and September.



#### 4.3.3 Children's Education Activities

• Outdoor Classrooms were installed and maintained at: Brandeis Elementary, Jeffersontown Elementary, DuPont Manual High School, and the Floyds Fork WQTC.



- Participated in the Jefferson County Public School Youth Summit at Eastern High School on August 13, 2009. The focus was "Earth Force, Green and Healthy Schools".
- A seminar for the professional development of teachers was held on September 23, 2009.
- Environmental Magnet School development continued with Portland and Cane Run Elementary Schools.
- Continued support for Eastern High School's Environmental Program at Floyds Fork WQTC.
   MSD is working on an expansion of this program to include Fairdale High School and the Derek R. Guthrie WQTC.
- MSD will participate in the Kentucky Green and Healthy Schools Water Inventory on October 19, 2009. See <a href="https://www.greenschools.ky.gov">www.greenschools.ky.gov</a> for more information.





SECTION 5: Capacity Management Operations and Maintenance (CMOM)

# 5.1 Capacity Management Operations and Maintenance Program Activities

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 MSD WIN CMOM document can be viewed on the Project website www.msdlouky.org/projectwin. Highlights of the CMOM program implementation over this reporting period are outlined below.

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.

## **5.1.1 Management Programs**

## M-E-4 Engineering Programs (Sewer System Design Program)

## This Quarter

 MSD has completed the revisions to the design manual. The design community was notified by e-mail, the webpage, and at meetings held with Home Builders, Engineers, Developers and Contractors. Three training classes were held on September 28 and September 30, 2009.

# **Next Quarter**

 The design manual is scheduled to be posted on the MSD website.

# M-E-9 Engineering Programs (Infrastructure Rehabilitation Program)

## This Quarter

- MSD installed the Neztek software in production to facilitate data transfer for PACP TV inspections from the Hansen asset management system to remote inspection software and back.
- MSD is working with various CCTV vendors to finalize the transfer of TV inspection data.
- MSD selected seven SSES firms. Negotiations have started and will continue into the next quarter. See the projects listed under the <u>3.1.1.3 Final Sanitary Sewer</u> <u>Discharge Plan Section</u> for specific project information.
- Budget has been allocated for rehabilitation





projects from the ICA Phase 1 and 2 data review. MSD continues to analyze the inspection data in order to develop additional capital rehabilitation projects from Phase 2 of the Interceptor Condition Assessment, and from the remaining Phase 1 Interceptor Condition Assessment issues.

- Interceptor Condition Assessment Phase 3 In June, the project scope was negotiated for Phase 3. This project was board approved on July 13, 2009. Phase 3 ICA work has started. Phase 3 will concentrate on the following areas.
  - Mill Creek Trunk (Budget ID H09399) FY10 CSSA Area. A work order will be issued on October 12, 1009, to begin the field TISCIT inspections.
  - Ohio River Interceptor (Budget ID H09400) FY10 CSSA Area. A work order will be issued on October 12, 1009, to begin the field TISCIT inspections.
  - <u>Upper Dry Run Trunk (Budget ID H09404)</u> FY10 CSSA Area. A work order will be issued on October 12, 1009, to begin the field TISCIT inspections.
  - <u>Sneads Branch Relief (Budget ID H09402)</u> FY10 CSSA Area. A work order will be issued on October 12, 1009, to begin the field TISCIT inspections.
  - <u>Lea Ann Way Interceptors (Budget ID H09398)</u> IOAP SSES Project. A work order was negotiated and executed on August 21, 2009 for Interceptor Condition Assessment (ICA) services for 28,788 LF of 15 to 30-inch diameter interceptor lines in the Lea Ann Way service area with an engineering consultant. The ICA contractor, a sub-consultant, completed all of the field TISCIT inspections during September. During the next reporting period, the ICA contractor will complete all remaining field inspections and the consultant will assess the data, and start developing the draft ICA report for MSD review.</u>
  - Camp Taylor Interceptors (Budget ID H09407) IOAP SSES Project. A work order was negotiated and executed on August 21, 2009, with an engineering consultant for Interceptor Condition Assessment (ICA) services for 12,649 linear feet (LF) 15 to 27-inch diameter interceptor lines in the Camp Taylor area. The ICA contractor completed 9,460 linear feet of field TISCIT inspections during September. During the next reporting period, the ICA contractor will complete all field remaining inspections and the consultant will assess the data, submitting a draft ICA report for MSD review.
- Flood Protection System COE inspection requirement. A work order was negotiated and executed on August 21, 2009 for Interceptor Condition Assessment (ICA) services for 10,930 LF of 6 to 144-inch diameter drainage lines in the Flood Protection System with an engineering consultant. The ICA contractor, a sub-consultant, completed all of the field TISCIT inspections during September. During the next reporting period, the ICA contractor will complete all remaining field inspections and the consultant will assess the data, and start developing the draft ICA report for MSD review.
- <u>Edgewood Separation (Budget ID H09202)</u> A new project scope was created to replace an existing failed system with new 8-inch sewer and abandon the existing sewer. Sanitary sewer connections were found to be installed in both the existing storm and



- sewer system. All sewer connections to the drainage facility were located and will be disconnected as part of the new project. Design will be complete by December 31, 2009. Construction is scheduled to be complete by June 30, 2010.
- Whipps Mill Basin (Budget ID H09202) This project called for raising two manholes on the Middle Fork Interceptor to a height two foot above the flood plain along Middle Fork. Chimney seals will also be installed on both manholes. The manholes are located in the Whipps Mill Basin. Work was advertised April 15, 2009, and awarded on May 4, 2009. Wet weather has delayed the completion of this work. Work is scheduled to be completed by end of December, weather permitting.
- Sears Avenue Sewer Replacement (Budget ID A09501) This project, located on Sears & Oechsli Avenues, will replace approx. 1,100 L.F. of an 8-inch diameter sanitary sewer that has a history of FOG issues. MSD staff completed the design in May 2009 and the project was advertised on June 19, 2009. This project was bid on July 22, 2009. Construction is in progress and scheduled to be complete on or before December 31, 2009.
- Manhole Inspection Program MSD staff continue to inspect manholes. With wet weather, inspections have slowed. MSD will follow the GLPM FY10 schedule. Inspection data will be reviewed and manhole defects will be corrected as they are found. No manholes inspected this reporting period due to wet weather activities.
- Goose Creek Pump Station (Budget ID F07070) and Lea Ann Way Pump Station (Budget ID F07069) Grinder Installations The 100% project design has been submitted. Additional channel modifications at each site for better hydraulics have been proposed. The budget for these additional improvements has been approved. The Lea Ann Way Grinder Replacement project was advertised on September 10, 2009. Bids were received on October 1, 2009. During the next reporting period the project will be presented for award on October 26, 2009, with construction scheduled to begin in November, 2009. The Goose Creek Grinder Project will be advertised and awarded during the next reporting period the project will be advertised for construction.
- Brandeis Viaduct #2 Pump and Controls Modifications (Budget ID F04192) The 100% design has been submitted. This project will replace pump #2 and associated electric and control equipment. This project was bid on advertised on August 20, 2009. Bids were received on September 17, 2009. During the next reporting period the project will be presented for award on October 26, 2009, with construction scheduled to begin in November, 2009.
- Meadow Stream ARV Replacement (Budget ID H09338) This project completed the review of a 12-inch diameter force main and poor results from a pump draw down test. It was determined that the existing 2-inch diameter air release valves are too small for the 12-inch diameter force main. Nine new valves were ordered. This project was bid on July 23, 2009, and awarded on August 5, 2009. The nine new valves were installed on September 18, 2009. On September 25, 2009, an ISCO 4501 Flow Monitor was installed at the pump station to get two weeks of flow data for trending. During the next



reporting period the new draw down studies will be completed to determine if capacity has been restored to design specifications.

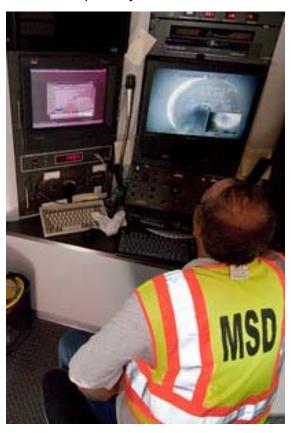
- <u>Fairmount Road Pump Station Expansion (Budget ID E00303)</u> Staff collected operation and maintenance data in June 2009. The pump station plans for the site's ultimate expansion were reviewed and model data was run for the site's ultimate design flows. During the next reporting period a technical memo will be completed with final recommendations for the expansion of the pump station.
- Gorham Way Pump Station Elimination Staff researched possible elimination routes. Substantial rock will be encountered in all possible elimination routes; therefore various installation methods were explored. The final design, easement acquisition and KDOW approval is scheduled to be complete by March 31, 2010. Construction is scheduled to be complete by December 1, 2010.
- Waycross Road Pump Station Elimination (Budget ID CO9062) The project involves
  the elimination of the Waycross Road Pump Station and the installation of approximately
  1,200 feet of 8-inch diameter gravity sewers. Design has been completed and MSD
  submitted the permit application for KDOW construction approval. Notice to proceed for
  Construction is scheduled to be issued on October 26, 2009.
- Lake Louisvilla Sanitary Sewers (Budget ID D98344) This project will involve the elimination of four pump stations (Forest Springs, Bay Tree, Willow Cove and Cottages of Westport) and construction of approximately 5,550 linear feet of gravity line. The new system will be designed to serve approximately 1,100 single family homes in the Hite Creek WQTC service area. This is a joint effort between private development and MSD to eliminate these facilities. The design on this project has started and is scheduled for completion, with easement acquisition and KDOW approval, by Dec. 31, 2010. Construction is scheduled for completion by December 1, 2011.
- Canoe Lane/Fairway Lane Pump Station Elimination (Budget ID F06298) -This project will allow for the elimination of the Canoe Lane and Fairway Lane Pump Stations. These pump stations contribute to capacity problems downstream, and the elimination of these pump stations will assist in the elimination of SSO's that currently exist downstream of these facilities. Design, easement acquisition and KDOW approval will be completed by Dec. 1, 2009. Easement acquisition has delayed completion of design. Construction on this project scheduled to start by January 31, 2010, with completion by June 30, 2010.
- Lake Forest Pump Station, Force Main, and Interceptor (Budget ID E05509) This project will allow for the elimination of the Berrytown, Starview, and Chenoweth Run WQTCs. Additionally, the St. Clair Drive and Arnold Palmer Pump Stations will be eliminated with this project. The effluent from these facilities will be directed to a proposed pump station that will pump into the existing Old Henry Force Main sending the wastewater to the Floyds Fork WQTC. Design on this project is 60% complete and will continue to December 31, 2009. Easement acquisition is in progress and has caused some minor changes in alignment. The project will be constructed in two phases. Phase I will be the construction of the new pump station and is the critical facility which will dictate the schedule for the completion of the interceptor and the elimination of the



existing pump stations and treatment plants. Phase I will allow for the start of the pump station construction while design and easement acquisition is in progress on Phase II, which includes the interceptor. The Phase II interceptor will be constructed in three sections. The first or lower section of interceptor will eliminate the existing Arnold Palmer PS and Chenoweth Run WQTC. The middle section of interceptor will be completed by a group of developer's. The St. Clair, Starview and Berrytown facilities will be eliminated with the construction of the upper section of interceptor. Phase I, the new pump station, is scheduled to start construction by January 31, 2010, with construction complete by February 28, 2011. Phase II, the first section of interceptor is scheduled to start construction by October 31, 2010, with construction complete by October 31, 2011.

## **Next Quarter**

- Vendor problem with the transfer of data with the Neztek software will be resolved.
- Project negotiations will continue on several of the SSES projects. Board approval is expected in October.
- MSD will continue to develop a Request for Proposal for time and material sewer and manhole rehabilitation construction, both to be based on a fiscal year schedule and budget. This will start work for Fiscal Year 2010.
- A project meeting will be held on November 2, 2009, with the SSES vendors to outline data collection and transfer protocols.
- MSD will continue to complete rehabilitation work and report accordingly.
- MSD continues to work on the procedures for documentation of rehabilitation and calculation of SCAP credits.



# M-E-10 Engineering Programs (System Capacity Assurance Program)

## This Quarter

- MSD has begun formula-based defect inspection of significant footage of sewer lines in various sewersheds across the county. In addition, contract arrangements are moving forward to increase these efforts dramatically. This information will be used to prioritize cleaning and rehabilitation efforts that will remove inflow and infiltration from the system and create capacity credits.
- The tracking of Pump Station capacities has been enhanced and testing results have been reviewed along with actionable items pertaining to deficiencies. Critical results of



this effort are being documented on each station asset within the Hansen system.

# **Next Quarter**

- Treatment plant capacities and new development flows will continue to be tracked in accordance with the SCAP, as previously described. Pump station capacity investigation needs resulting from the pump testing and deficiency identification will be refined and remedial actions will be initiated for the highest priority stations.
- A capacity credit evaluation will be completed for each credit catchment and balanced with approved new flows. Rehabilitation efforts using existing sewer condition data will be advanced to remove inflow and infiltration and generate capacity credits.
- Development of an SCAP training module is nearing completion and training dates will be scheduled for staff. Additional GIS information and reports related to sewer capacity will be published or updated and made available to general personnel. Credit calculation protocols and tracking in Hansen will be evaluated and a detailed process will be written. An update to the SCAP planning document will also be initiated to adjust the program's details and direction as new or altered activities are encountered as the plan is implemented.

# M-H-1 Equipment and Tools Management Programs (Spare Parts Inventory Management Program)

## This Quarter

- Storeroom Bar-Code Scanning Project began September 22, 2009, with a wireless site survey of CMF and demonstration of handheld hardware devices. Team kick-off meeting was held September 28, 2009, to determine bid process and scheduled next phase.
- Hite Creek WQTC Storeroom is newly remodeled with shelving, pallet racking, bins and tool check out area in the new shop to service Central and East Regions.
- Began testing of SAP processes with new location of Hite Creek WQTC Storeroom for implementation of cycle counting and bar-code scanning preparation.
- Continued sampling of new environmentally friendly air freshener products for installation at all plants to control odor.
- The CMF Storeroom implemented the following quality improvements with lean manufacturing principles: relocation of service counter to better serve customers at both gates, door bell installed at counter to alert staff in office during slow business hours, receiving/holding area incorporated, and constructed vertical racking for lumber.
- Final phase of testing the Silt Filter System to replace stone bags around catch basins at CMF. Initial testing showed a cost savings of \$500 a month (labor and materials) and significant increase in filtration of contaminants from entering the sewer system.
- Participated in environmental spill containment and recycling of chemicals and oils for all locations for bid proposal.



## **Next Quarter**

- Begin phase one of cycle counting (SAP operations delayed event.)
- Meet with local distributor to review spill containment and environmental cleanup substance for testing at CMF.
- Prepare report and demonstration of Silt Filter System, odor control initiatives, and vegetation improvements at CMF.
- Begin working with vendor to communicate recycling and environmental cleanup information for all locations.
- Finalize testing of environmental-friendly cleaning agents and air fresheners for Storeroom management to all locations.
- Complete testing and installation of soy-based industrial hand cleaners and lotions for all maintenance and fleet shop employees.
- Complete bid proposal for inventory managed gas cylinders for all locations to provide better chemical and gas controls throughout MSD.

## M-H-3 Equipment and Tools Management Programs (Vehicle Repair)

## This Quarter

During this period Fleet executed 1766 work orders.

- 259 were for tire repairs
- 45 were accident related
- 349 were preventive maintenance
- 98 were for fluids
- 899 were corrective
- 116 were for additional repairs

#### **Next Quarter**

• The conversion project to implement new software for fleet management is scheduled to start in November 2009.

## M-J-2 Legal Support Programs (Ordinances)

## This Quarter

MSD continued to work on the redraft of the Private Property Ordinance. Work on this
ordinance will be reduced until May 2010, due to the significant number of Plumbing
Modification projects that are on-going.

## **Next Quarter**

• MSD will continue to work on the redraft of the Private Property Ordinance working with Metro Council Members to have this ordinance considered.



# M-K-1 Water Quality Monitoring Programs (Routine Water Quality Monitoring Programs)

## This Quarter

- MSD continued to improve the accessibility of data reported to the SCADA system for pump station and Real Time Control information as well as standardize various environmental data sets in preparation for integrated data querying and display through an upcoming SharePoint site.
- Telog enterprise software was installed on MSD's system, which currently has 18 CSOs reporting remotely into it. This software has made MSD's monitoring capabilities more dynamic and real-time. Approximately 50 additional monitors



will be installed and set to report through this system by the end of December 2009.

## **Next Quarter**

- MSD will continue to work on improving and broadening staff access to the Laboratory Information Management System (LIMS), the Plant Information System (PI), sonde data and sewer flow data.
- MSD will complete a 2009 water quality synthesis report by the end of December 2009, which will trend water quality information and correlate impacts of various pollutant sources such as combined sewer overflows, impervious area, and land use.
- A draft work plan will be enhanced to further the successful implementation of the Post Construction Compliance Monitoring Plan as described in the June 19, 2009, resubmittal of the Integrated Overflow Abatement Plan
- Review meetings for MSD's bi-annual water quality synthesis report will also be held in preparation for completion by December 31, 2009.

## **5.1.2 Operations Programs**

## O-A-1 Pump Station Operations Programs (Routine Operating Programs)

#### This Quarter

- The Standard Operating Procedures (SOP) for Flood Pumping Stations, that require operational changes to eliminate dry weather overflows, was completed July 24, 2009, and submitted to the USACE for review.
- MSD Regulatory Services staff met with Operations staff to determine capital project priorities and the budgetary needs.



• MSD placed an order for an ISCO 4501 Pump Station Flow Monitor. This device will streamline pump station draw down efforts. The meter was delivered April 8, 2009, and MSD received manufacturer training on April 23, 2009. The unit was taken to trial evaluations at the Fairmount Road Pump Station. The unit was determined to have a faulty circuit board by the manufacturer during set-up. The unit was repaired and returned to MSD in June 2009. MSD staff was still unable to get the unit working. ISCO representative picked up the unit in July and determined a faulty USB serial port connection was the problem. The unit was returned to MSD mid September and installed at the Meadow Steam Pump Station on September 25, 2009. The unit will be installed for two weeks to collect PS draw down data.

## **Next Quarter**

- MSD Regulatory Services staff will continue to meet on a monthly basis with Operations staff to determine capital project priorities and advise on the budgetary needs on a quarterly basis.
- A master draw down pump station database with all test results will be analyzed and an
  action plan will be developed for the pump stations that have performance issues.
  Rehab projects will be prioritized from this database. This will also be coordinated with
  the Greenline and Emergency Generator Programs.
- MSD will test the ISCO 4501 Pump Station Flow Monitor at the Meadow Stream and Fairmount Road Pump Stations to assess the unit. This testing will also be used to determine the effectiveness of the Meadow Stream PS project that replaced the 10 air valves. Data will be collected to determine the effectiveness of the flow monitor for use in the pump station draw down program.

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

## This Quarter

- Greenline Analysis The East, West and Central Region Greenline analysis information was reviewed for the selection of the generators for the Phase 3 Emergency Generator project. Planning efforts began to start using the Greenline Analysis information for prioritizing rehabilitation efforts for the pump station draw down program.
- Emergency Generator Phase 3
   (Budget ID H09337) Staff has completed the selection of 30



pump station sites, 10 for each of the three (East, Central and West) Metro Operations regions, for this phase. Bid documents and the following projects have been created.



- East Region Emergency Generator Project (Budget ID H10082) The purpose of this project is to install permanent stand by generators at the following MSD pump stations: Brittany Woods Circle, Devondale, Fairway View Court, and Saurel Drive. The project was advertised on August 25, 2009, and bids were received on September 18, 2009. During the next reporting period, the project will be awarded and construction will begin. Completion is scheduled for January 2010.
- West Region Emergency Generator Project (Budget ID H10084) The purpose of this project is to install permanent stand by generators at the following MSD pump stations: Francell Court, Park Ridge Woods, Sunlight and Tree Line. The project was advertised on August 28, 2009, and bids were received on September 22, 2009. During the next reporting period, the project will be awarded and construction will begin. Completion is scheduled for January 2010.
- Central Region Emergency Generator Project (Budget ID H10083) The purpose of this project is to install permanent stand by generators at the following MSD pump stations: Griffytown #1, Middletown Christian Village, Monticello Place and Six Mile Lane. The project was advertised on August 31, 2009, and bids were received on September 29, 2009. During the next reporting period, the project will be awarded and construction will begin. Completion is scheduled for January 2010.
- Terrier Lane PS Generator (Budget ID H09337) An emergency purchase order was issued on September 22, 2009, for a 30KW stand-by generator. This pump station experiences frequent power outages which causes basement flooding to surrounding homes. The generator will be delivered to MSD in three weeks. During the next reporting period, the generator will be delivered on site and installed by the generator supplier.

# **Next Quarter**

- Greenline Analysis During the next reporting period the Greenline technical memo's
  documentation of the lowest home opening elevations and confirmed pump station asconstructed information will be reviewed. A plan will be developed to correct any pump
  station operation level settings to prevent line surcharging. The information will also be
  used to analyze pump station performance and prioritize rehabilitation for the pump
  station draw down program.
- Emergency Generator Phase 3 (Budget ID H09337) During the next reporting period construction contracts will be awarded and notice-to-proceeds will be issued for the above listed generator projects. Planning and final bid documents will be completed for the purchase of mobile generators through MSD's Purchasing Department.



# O-D-1 Grease Trap Inspection and Enforcement Program (Permitting Program)

## This Quarter

- MSD handed out FOG related information to the general public at the annual Jeffersontown Gaslight Festival, September 18-20, 2009.
- MSD held a training class for the MSD Certified Grease Waste Hauler/Plumber Program on September 29, 2009.
- MSD issued 50 enforcement actions against Food Service Establishments for FOG violations found during reconnaissance and follow-up inspections conducted



at Food Service Establishments that recently failed certification by an approved MSD Certified Grease Waste Hauler.

- MSD sent 778 FOG residential public outreach letters to three areas that had FOG issues during this reporting period.
- MSD sent 1400 FOG commercial public outreach letters and FOG brochures to Food Service Establishments in the MSD service area during this reporting period.
- MSD Certified Grease Waste Haulers removed 623,682 gallons of FOG from Grease Control Equipment at Food Service Establishments in the MSD service area.

## **Next Quarter**

- MSD will hand out FOG Program related information to member Food Service Establishment representatives at the annual Kentucky Restaurant Association Exposition on October 21-22, 2009.
- MSD will conduct reconnaissance at FOG "hot spot" locations along with concurrent inspections of online Food Service Establishments grease control equipment. MSD will issue enforcement actions against any Food Service Establishment for FOG violations found during reconnaissance inspections.
- MSD will continue to conduct follow-up inspections at Food Service Establishments recently receiving failed grease control equipment certifications from approved MSD Certified Grease Waste Haulers and issue enforcement actions as appropriate.
- MSD will continue to send FOG residential public outreach letters to residents in neighborhoods in the MSD service area that had FOG issues.
- MSD will continue to send educational materials to Food Service Establishments in the MSD service area.



 MSD will plan and schedule an outreach event for Food Service Establishments in the MSD service area.

# O-F-1, 2 Flow Monitoring Field Operation Programs (Permanent Stations; Temp Stations)

## This Quarter

 An expanded long term sewer flow monitoring network and telemetry system is currently being installed in support of the construction post compliance monitoring plan being developed as part of the IOAP and the CMOM System Capacity Assurance Plan. This system will enhance MSD's ability to remotely monitor field data from collection equipment and



equipment battery power as well as enhance the ability of MSD Operations to monitor the real time status in various areas of the sewer system.

 MSD selected the telemetry technology to be used in the expanded flow monitoring program as well as the final sites and flow meter types to be used in the project. The communications with 18 CSO meters and local set up of the flow data enterprise software and cellular accounts for each site were initiated.

## **Next Quarter**

 Flow meters are being added as assets in the Hansen system to better track the location and history of these assets. All remote monitoring and communication equipment for the new long term network will be installed for 50 new meters for this network. Installation of the equipment at the new sites will begin and testing of the flow data software will be completed on MSD's system. Event notification testing using e-mail and paging (low battery levels, unusual flow readings, etc.) from this system will also begin.

## **5.1.3 Maintenance Programs**

# S-A-1, 2 & 3 Pump Station Preventive Maintenance (Electrical; Mechanical; Physical)

## This Quarter

MSD continued the process of updating its preventive maintenance and inspection plan
for its flood pump stations based on a review of the USACE Inspection Guide. Staff is
using the Hansen asset management system to track Flood Pump Station work orders
as well as associated flood pump station assets such as station related floodgates.



 Metro Operations staff that maintains sewer lift stations and small water quality treatment centers have started using Hansen for preventive maintenance task and corrective work orders. The model for the WQTC inventory has been developed.

## **Next Quarter**

• Additional Hansen training will be held for Metro Operations staff on October 29, 2009, for the setup of PM work orders for vactoring pump stations.

 The water quality treatment centers inventory build-out strategy will be completed and inventory input will start.

# S-B-1 & 2 Force Main Preventive Maintenance (Air Release Valves, Valve Exercise Program)

## This Quarter

The following force main inspections were completed:

- July 1, 2009 Jarvis Lane, Mockingbird Valley Road
- July 7, 2009 Dominion Way, Brandywyne
- July 15, 2009 Berrytown, Crossgate, Denbeigh
- September 1, 2009 Edith Avenue (partial)
- September 9, 2009 Cypress Springs, Apple Patch, Bluegrass Fields
- September 11, 2009 Edith Avenue (completed)

#### **Next Quarter**

The following force mains are scheduled for inspection.

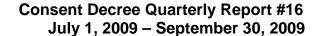
- Rubbertown
- West County
- Bridgepointe
- The annual force main evaluation will be completed by December 31, 2009. Adjustments to the inspection schedule will be made as needed.

# S-C-1, 2, 3 & 4 Gravity Line Preventive Maintenance (Routine Hydraulic Cleaning, Routine Mechanical Cleaning, Root Control Program, Manhole Preventive Maintenance)

## This Quarter

- MSD staff completed CCTV inspections with PACP codes in the Muddy Fork A and D catchment areas.
- I&FP's contractor completed the CCTV inspection with PACP coding on their first catchment area, Floyds Fork A.
- ICA Phase 3 Contractor started to perform CCTV inspection and Manhole Inspections.
- A total of 159 MHs were inspected.
- A total of 538 segments had CCTV inspection.







- During this time MSD did not have any lines chemically treated but defined the areas to target in the next quarter.
- MSD performed sewer flushing on 867 line segments and root cut 181 line segments.

# Next quarter

- I&FP will continue working with the contractor on CCTV and chemical root treatment.
- MSD will refine the Gravity Line Preventative Maintenance work plan for FY2010.





## **SECTION 6: Program Activities for Water Quality Treatment Centers**

## 6.1 Regional Water Quality Treatment Center Updates

## **6.1.1 Morris Forman Water Quality Treatment Center**

- There were 9 days during this quarter where the peak flow was over 300 MGD at Morris Forman WQTC.
- There were two KPDES permit violations at Morris Forman WQTC during this reporting period. There was a 7-day fecal coliform violation in August and another 7-day fecal coliform violation in September.

The first violation was due to the failure of the device that mixes sodium hypochlorite with the effluent. Without the mixing device, the applied sodium hypochlorite was not as effective and sampling during this time showed high fecal coliform numbers. This device was fixed within 1 day, and samples taken after the repair confirmed that fecal coliform values returned to compliance.

The second violation was attributed to successive days of continuous wet weather. High flows reduce the contact time for disinfection, and cooler water temperatures associated with extended precipitation reduce the effectiveness of sodium hypochlorite.

To avoid this from occurring again, refresher training was provided to the operators to ensure MSD is dosing and sampling in accordance with proper procedures and technique.

## 360.0 350.0 340.0 330.0 320.0 310.0 300.0 290.0 280.0 270.0 July 15 July 17 July 22 July 30 August 10 July 29 July 31 August 11

## Morris Forman WQTC - Flows over 300 MGD

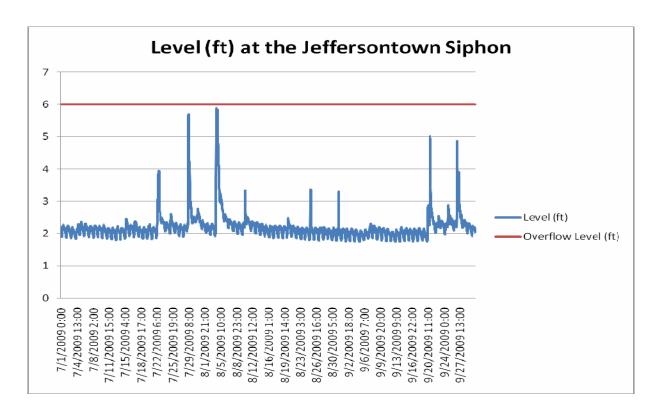
## **6.1.2 Jeffersontown Water Quality Treatment Center**

MSD submitted a Jeffersontown WQTC Process Control Program 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 Program was submitted.

- There were five blending events reported at the Jeffersontown WQTC during this period that started on July 22, July 29, August 4, September 20 and September 26, 2009. The total blended amount, from all events, reported and documented on the Project WIN webpage was 3,048,812 gallons.
- Peracetic acid testing has been completed. The testing did not identify significant advantages to the use of peracetic acid. Given the costs and potential safety concerns with materials handling, MSD will not pursue the use of peracetic acid disinfection.
- MSD Metro Operations staff had refresher training on the use of the Wet Weather SOP, including processes for the manual input of LIMS data, as an interim measure pending establishment of the automated data transfer links.
- Two inspection routes were run for the Jeffersontown siphon during this reporting period. Inspections were conducted August 2, 2009, and September 20, 2009. No overflows were identified during these inspections.
- See Section 6.5.1 for an update on the CPE/CCE projects for the Jeffersontown WQTC.





## 6.1.3 Hite Creek Water Quality Treatment Center

A waste load allocation request for the Hite Creek WQTC was submitted to the Division of Water on March 30, 2009. This allocation is necessary to allow elimination of the Prospect Area WQTCs by December 15, 2015, as required by the Amended Consent Decree. Approval for this new allocation was received from the DOW on June 10, 2009.

- The next step will be to initiate the contract to amend the North County Action Plan Update by the end of FY 2010.
- See Section 6.5.4 for an update on the CPE/CCE projects for the Hite Creek WQTC.

## 6.1.4 Floyds Fork Water Quality Treatment Center

In October 2008, MSD completed a Preliminary Engineering Report for the Phase 2 expansion of the Floyds Fork WQTC to an average daily design flow of 6.5 MGD. The future needs and the current capacity commitments may require MSD to consider an expansion beyond Phase 2. MSD will move forward on the final design once a requested waste load allocation is completed by KDEP.

## 6.1.5 Derek R. Guthrie Water Quality Treatment Center

 See Section 3.2.2 for an update on the design phase of the Derek R. Guthrie WQTC Wet Weather Equalization and Treatment Project (Budget ID H06302).

# 6.1.6 Cedar Creek Water Quality Treatment Center

See Section 6.5.3 for an update on the CPE/CCE projects for the Cedar Creek WQTC.

# 6.2 Prospect Area Water Quality Treatment Center Updates

The elimination plan for the five WQTCs serving Prospect (Hunting Creek North, Hunting Creek South, Ken Carla, Shadow Wood and Timberlake) was submitted to EPA and KDEP on March 31, 2009. MSD received approval of this plan on September 24, 2009, and work is proceeding on the projects defined in the IOAP.

- Prospect Phosphorus Removal MSD staff continue to explore alternative methods of delivery of the sodium aluminate. Currently the feed systems require a weekly delivery of chemical by MSD staff at four of the five sites. All sites have physical challenges that prevent bulk storage on site and also limit the type of drum delivery to the site. MSD staff is also planning to provide weather protection on the feed systems at the plant sites. Effluent testing in the past three months have shown that each of the five Prospect WQTCs were below the 1.0 mg/l effluent limit.
- The phosphorus monitoring data for the five WQTCs, including the calculation of monthly averages are shown in **Appendix G**.



## 6.3 Other Small Water Quality Treatment Center Updates

## 6.3.1 Starview Water Quality Treatment Center

Staff is working with Metro Operations to rehabilitate and install an existing 80 KW generator (from the eliminated Polo Fields site) at the Starview WQTC. During July, a contractor installed the generator at the new site. MSD staff has completed the necessary electrical modifications required to utilize this generator.

## 6.3.2 Lake Forest Water Quality Treatment Center

• See Section 6.5.2 for an update on the CPE/CCE projects for the Lake Forest WQTC.

## 6.3.3 Timberlake Water Quality Treatment Center

• See Section 6.5.5 for an update on the CPE/CCE projects for the Timberlake WQTC.

# 6.4 Monitoring, Record-Keeping and Reporting

# **6.4.1 Discharge Monitoring Reports**

In July 2008, MSD started posting, on the Project WIN website, a Discharge Monitoring Report (DMR) packet for each WQTC. Historical DMR data are available back through January 2007. The new DMR packets include the DMR, Monthly Operating Report (MOR), discharge report and the 5-day follow up letter for any bypass events that occurred during that period.

The information on the DMRs may be found at <a href="https://www.msdlouky.org/projectwin">www.msdlouky.org/projectwin</a> in the section labeled Wastewater Treatment Plant Reports.

MSD continues to work towards the creation of electronic DMRs. This will require coordination with the State as well as upgrades to the LIMS system and the modification to internal tools. The LIMS upgrade started in September 2009. The new software has been installed and MSD staff has entered the testing phase of this project. The target for electronic creation of the DMRs is January 2010.

## 6.5 Comprehensive Performance Evaluations and Composite Correction Plans

In accordance with paragraphs 26.b and 26.c of the Amended Consent Decree, MSD submitted the required Comprehensive Performance Evaluations and Composite Correction Plans as part of the IOAP on December 19, 2008. Based on comments MSD received from EPA/KDEP, these plans were re-submitted as part of the IOAP Volume 1 on June 19, 2009. Verbal approval of the CPEs was received on September 23, 2009. The following describes progress on the Type 1 and Type 2 activities required in the approved CPEs.

## 6.5.1 Jeffersontown Water Quality Treatment Center

 An SOP for operation of the Plant No. 1 aeration basins in parallel flow (rather than sequential plug flow as operated now) has been started, and will be drafted for MSD review during the next reporting period.



- Adding facilities to allow addition of sodium aluminate to the raw sewage has been started, and will be completed during the next reporting period. While the CPE recommended extending chemical feed lines from the existing sodium aluminate feed system, MSD determined it would be easier and more effective to move the chemical feed function to the existing screenings building. This will be complete and ready for operation by the end of December, 2009.
- Work will begin on extending the walls of the Plant No. 1 west aeration basin during the next reporting period. This work is not scheduled for completion until June 2010, but material purchase and preliminary work is anticipated to start before the end of December 2009.



# 6.5.2 Lake Forest Water Quality Treatment Center

 An operations SOP is being developed, and will be drafted and ready for MSD review by November 30, 2009.

# 6.5.3 Cedar Creek Water Quality Treatment Center

 A computerized process control program was drafted and transmitted for MSD review on September 23, 2009. Staff will be trained in use of this process control program during the next reporting period.

#### 6.5.4 Hite Creek Water Quality Treatment Center

 A computerized process control program will be drafted for MSD review during the next reporting period.

## 6.5.5 Timberlake Water Quality Treatment Center

- Work began on an SOP for the plant. This SOP will be completed during the next reporting period.
- Design of a replacement for the flow splitter box will be initiated during the next reporting period. This splitter box is scheduled to be replaced by the end of April, 2010.
- MSD submitted a request to KDEP to be allowed to install and operate a by-pass around the polishing pond during times when use of the polishing pond degrades plant effluent. No response has been received.

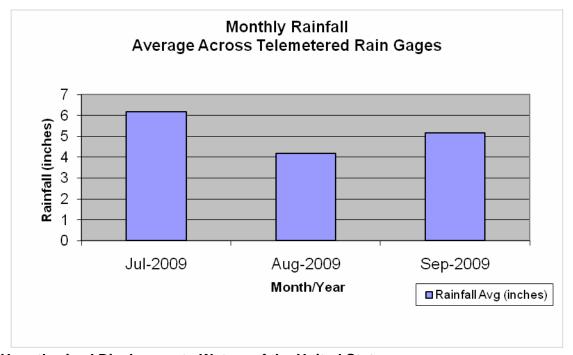


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### **SECTION 7: Performance Overview**

#### 7.1 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 Gages. On August 4, 2009, Louisville Metro was hit by a storm that exceeded the 1000 year storm event. See **Appendix J** for a copy of MSD's storm report that was previously sent to EPA and KDEP.



## 7.2 Unauthorized Discharges to Waters of the United States

**Appendix B-1** includes information related to MSD's discharges to Waters of the United States for the reporting period. This information is entered and maintained in the Hansen Information Management System (Hansen) utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These discharges have been reported to KDEP and EPA through automated email, telephone calls and monthly wastewater treatment plant discharge monitoring reports (DMRs).

There were 198 unauthorized discharges this reporting period. 16 were reported during dry weather and 182 were wet weather related.

An analysis of the 15 dry weather unauthorized discharges was performed.

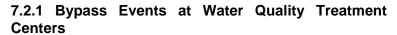
- Three occurred at pump stations
- Four occurred at treatment plants (bypass)
- One was associated with an obstruction in a manhole

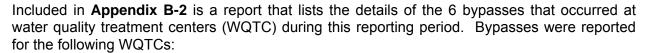


- One was due to a force main break
- Six occurred at CSOs due to mechanical failures, electrical problems, power related issues, structural failures, obstructions and root related problems

An analysis of the 182 wet weather unauthorized discharges was also performed. It should be noted that on August 4, 2009, the Louisville Metro area was hit with a record storm event.

- 21 were pumped overflows
- 5 were blending events at Jeffersontown WQTC
- 2 were bypass events at various WQTCs
- 7 were due to LG&E power failures
- 5 were due to electrical problems on MSD
- 142 were system capacity issues at MHs and pump stations





- Bancroft (MSD0290) KPDES Permit Number KY0039021
- Hite Creek (2)(MSD0202) KPDES Permit Number KY0022420
- Cedar Creek (MSD0289) KPDES Permit Number KY0098540
- Derek R. Guthrie (MSD0277) KPDES Permit Number KY0078956
- Jeffersontown (MSD0255) KPDES Number KY0025194

# 7.2.2 Blending Events

Included in **Appendix B-3** is a report that lists the five blending events that occurred at the Jeffersontown WQTC during this quarter. The blending events, as posted on the Project WIN website, started on July 22, July 29, August 4, September 20 and September 26, 2009.

## 7.2.3 Dry Weather CSOs

During this reporting period there were six Dry Weather overflows from a permitted CSO location. Overflows occurred on July 30, 2009, and September 28, 2009, at CSO018. The first occurrence was due to a power failure, the second occurrence was due to an electrical problem. A dry weather overflow occurred at CSO019 on July 27, 2009, due to a mechanical failure of a





pump. Dry weather overflows occurred August 13, 2009, at CSO088 and CSO154 because of an obstruction and roots respectively. A dry weather overflow occurred on August 27, 2009, at CSO195 because of a sewer line collapse along Oak Street. At this time, all repairs have been made and CSOs are functioning properly.

#### 7.3 Overflows to Ground

MSD 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 Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows will be included in the Fiscal Year 2009 Annual Report for the period of July 1, 2008, through June 30, 2009.

#### 7.4 Overflows to Interior

MSD 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, 2008, through June 30, 2009.

## 7.5 CSO Reductions

**Appendix C** includes an updated version of the modeled Annual Average Overflow Volume (AAOV) for the permitted CSOs.

In addition, the new InfoWorks model has identified additional CSOs that have AAOVs exceeding 10 million gallons per year due to additional model detail and a revised typical rainfall year. These additional CSOs are as follows: CSO153, CSO149, CSO121, CSO119, CSO105, CSO97, CSO84, CSO58, CSO55, CSO50, CSO23, CSO18, CSO16, and CSOs discharging to Sneads Branch Relief (combined AAOV). These CSOs will be fitted with appropriate monitoring equipment and identical Telog equipment as the long term sewer network monitors and will report to the new flow data site by the end of 2009. The new flow monitors have been ordered. Delivery and installation are scheduled to occur in the next quarter.

During this reporting period no projects that impacted permitted CSOs were completed.

The following activities occurred over the reporting period related to CSO monitoring.



The CSO data for this quarter from July 1, 2009, through September 30, 2009, is included in **Appendix D**. 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.

- Batteries are tested before installation and the CSO flow monitoring sites are inspected every three weeks. Batteries are replaced every 90 days or when the voltage falls below four.
- CSO097 Water was found in the panel and a splitter was replaced. Extra error trapping has been added to the plc to prevent this from happening again.
- CSO182 Data is missing around August 4, 2009. Sensor damage occurred around this period. The flow meter and sensor were replaced on September 25, 2009.
- CSO118 Data is missing after August 28, 2009. There was a street cave in and the
  contractors removed the flow meter instrumentation. The instrumentation was replaced
  on September 30, 2009, after the contractors had completed their work.
- CSO190 Data is missing from July 1, 2009 July 8, 2009. This location experienced a power failure during this period.
- MSD is testing CSO event notifications from the new Telog enterprise software to immediately notify MSD staff by e-mail and/or text message when battery power drops below specified levels needed to operate or a CSO discharges. Work will continue on this effort.
- The rehabilitation project to eliminate the infiltration at CSO108 was completed April 30, 2009. Pump programming changes were made to route any residual groundwater into the relief sewer rather than the overflow line to the stream. During the next reporting period, MSD staff will enter the unit and influent interceptors to investigate additional sources of I/I entering the system. If I/I is found, a rehabilitation project will be created to address the source of I/I.

## 7.6 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:

- <u>Avanti Pump Station Elimination (Budget ID A09090)</u> Project was substantially complete with flow diverted on July 10, 2009.
- Ashburton Pump Station Improvements and Diversion (Budget ID A09092) Project is scheduled to be substantially complete with anticipated flow diverted by October 12, 2009.

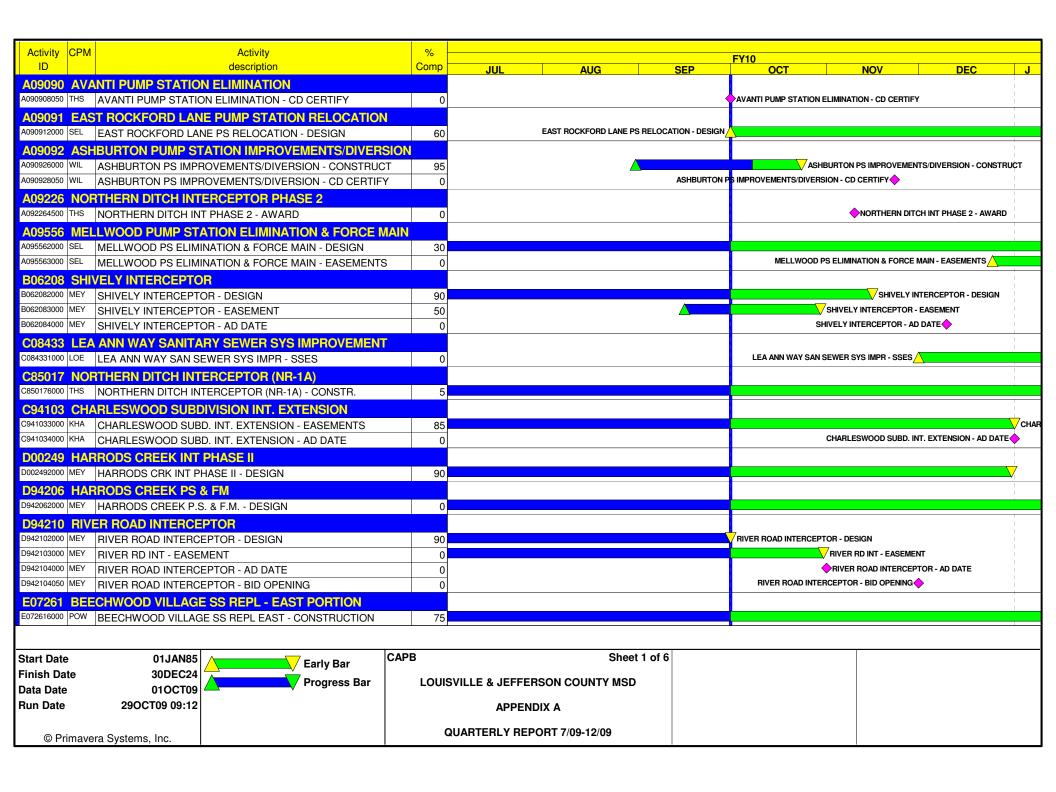
## 7.7 Phosphorus Monitoring at the Prospect WQTCs

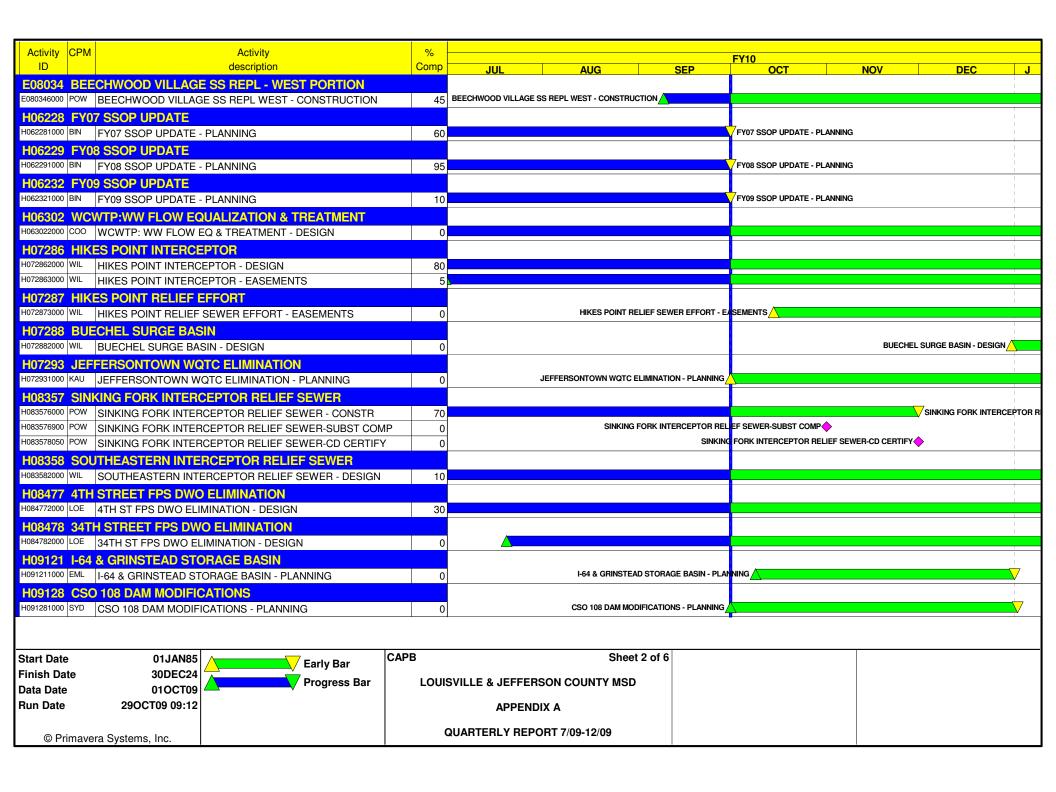
As part of the Amended Consent Decree, MSD has agreed to submit phosphorus monitoring data including the calculations of monthly averages with the quarterly reports. See **Appendix G** for this quarter's report.



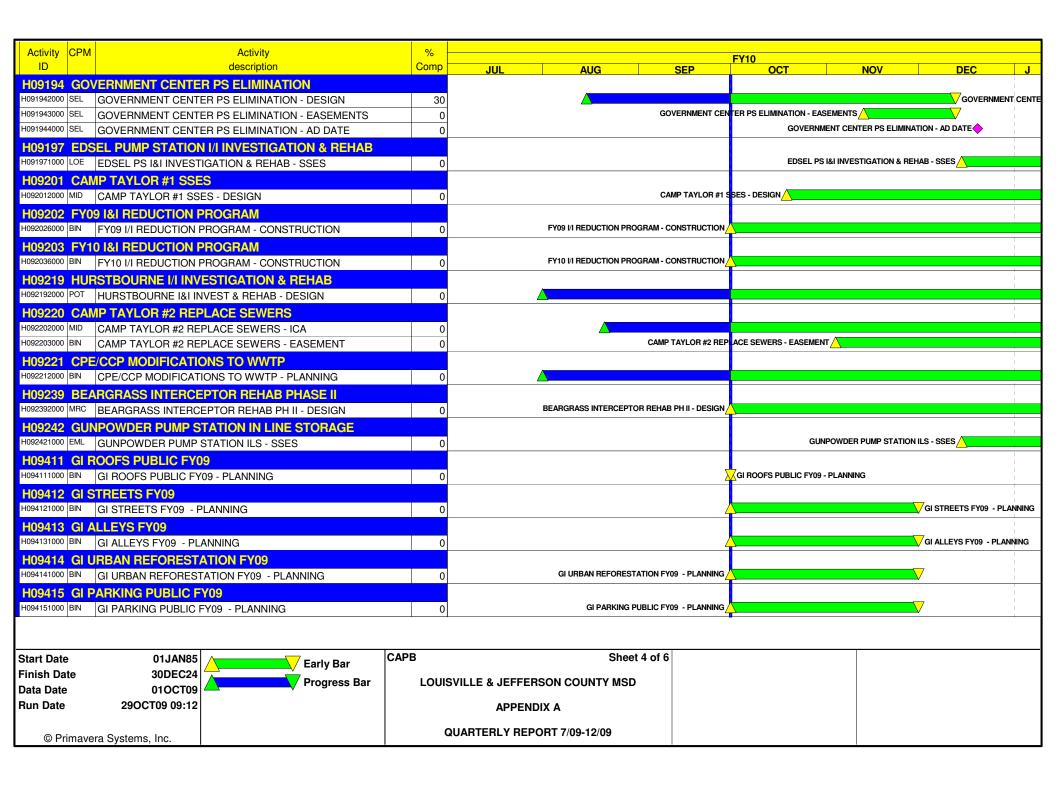
Appendix A – Activity Schedules





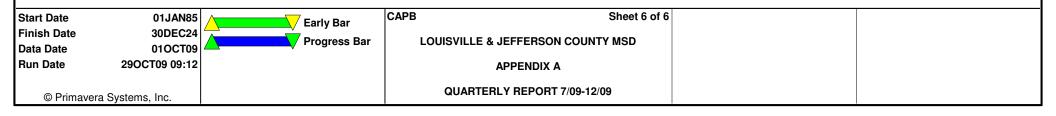


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		RIDGE STORAGE BASIN - DESIGN	10							
		INTERCEPTOR IMPROVEMENT								
		INTERCEPTOR IMPR - SSES	0		LITTLE CEDAR CE	REEK INTERCEPTOR	IMPR - SSES			
		TION SSO INVESTIGATION								-
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	STREETS FY10									
	GI STREETS FY10 - PLANNING	0		GI STREI	TS FY10 - PLANNING					
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	GI 3RD & ORMSBY BIOSWALE - CONSTRUCTION	0		GI SHD & UNIVISET BIOSWA	ALE - CONSTRUCTION					
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Activity C	CPM	PM Activity		FY10							
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H09433	GI 1	2TH & JEFFERSON STREET									
1094336000	BIN	GI 12TH & JEFFERSON GREEN STREET - CONSTRUCTION	0	GI	12TH & JEFFERSON GREEN S	TREET - CONSTRUCTION					
H09562	DRG	WQTC: BLOWER PACKAGE									
H095626001	6001 COO DRGWQTC: BLOWER PACKAGE - BLOWER PURCHASE		0		DRGWQTC: BLOWER PACKAC						
H10039	GI A	DDITIONAL RAIN GARDEN PH 1 FY10								į	
1100396000	BIN	GI ADD'L RAIN GARDENS PH 1 FY10 - CONSTRUCTION	0		GI ADD'L RAIN GARDENS PH	1 FY10 - CONSTRUCTION					
H10040	GI A	DDITIONAL RAIN GARDEN PH2 FY10								I	
1100406000	BIN	GI ADD'L RAIN GARDENS PH 2 FY10 - CONSTRUCTION	0		GI ADD'L RAIN GARDENS PH 2 FY10 - CONSTRUCTION						
05056	INTE	GRATION OF SWPS/MDS/MFWTP TO RTC					1				
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06230	FY07	BGC/OR LTCP									
1062301000 BIN FY07 BGC/OR LTP - PLANNING		99				FY07 BGC/OR LTP - PLA	NNING		i		
06231		BGC/OR LTCP								İ	
1062311000 BIN FY08 BGC/OR LTP - PLANNING		80			7	FY08 BGC/OR LTP - PLA	NNING		i		
06233	FY09	BGC/OR LTCP									
1062331000 BIN FY09 BGC/OR LTP - PLANNING		0				FY09 BGC/OR LTP - PLA	NNING		1		
106138	FY09	OUTDOOR CLASSROOM					1			-	
J061381000 CRO FY09 OUTDOOR CLASSROOM - PLANNING		75				FY09 OUTDOOR CLASSE	OOM - PLANNING		1		
106139		OUTDOOR CLASSROOM								1	
061391000		FY10 OUTDOOR CLASSROOM - PLANNING	0							!	





Appendix B-1 - Discharge Work Orders – Waters of the United States







KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022420 MSD0202 HITE CREEK HITE CREEK EAST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 108674 10723 COPPER RIDGE DR HITE CREEK GROUND

WO # Activity Code / Description <u>Initiated</u> **Initiated By Assigned To** Disch Status **Event Date Problem** Result Completed Condition **DISSUS: SUSPECTED** 936089 07/29/09 10:30 AM MARKS JR RHEINLAENDE SUSPECTED 07/29/09 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 10:31 OVERFLOW EVID. FOUND R JR **CAPACITY** DISCHAGE -AM WATERS

### Spot Inspections:

Discharge Amount:	10 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	NO CLEAN UP REQUIRED
Control Zone:	NO SIGNS REQUIRED
Impact:	NO IMPACT OF OBSERVED
Repair:	BOLTED DOWN MANHOLE

07/29/09 02:23 PM	msd web site and temp signs posted	
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KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022420 (Cont'd) MSD0202 HITE CREEK HITE CREEK EAST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

7302 FLOYDSBURG RD FLOYDS FORK 108958 **CATCH BASIN** SMH Sewer Manhole WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 936080 07/29/09 10:45 AM MARKS JR COOMER DOCUMENTED 07/31/08 LACK OF SYSTEM UNAUTHORIZED 07/29/09 01:20

DISCHARGE

CONTINUENT OF COMER DOCUMENTED 07/31/08 LACK OF SYSTEM UNAUTHORIZED 07/29/09 01:20

WATERS

# Spot Inspections:

Discharge Amount:	7,750 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	DEBRIS OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

07/29/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 10:45 AM	DISPUB	temporary signs placed around the effected area
07/29/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022420 (Cont'd) MSD0202 HITE CREEK HITE CREEK EAST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 90876 7510 MEADOW STREAM CT HARRODS CREEK STREAM

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 938701 08/04/09 05:00 PM MARKS JR RHEINLAENDE FORCE 08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 01:00 DISCHARGE R JR **MAJEURE CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	36,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS WERE POSTED
Impact:	PERSONAL HYGIENE PRODUCTS & SEWAGE OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

08/05/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 05:00 PM	DISPUB	TEMPORARY SIGNS WERE POSTED
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022420 (Cont'd) MSD0202 HITE CREEK HITE CREEK EAST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 91087 7510 MEADOW STREAM CT SOUTH FORK HARRODS STREAM

CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition **DISSUS: SUSPECTED** 936304 07/29/09 06:30 PM MARKS JR DUNN JR DOCUMENTED 03/18/08 LACK OF SYSTEM UNAUTHORIZED 07/29/09 06:30

OVERFLOW EVID. FOUND CAPACITY DISCHAGE - PM

DISCHAGE -

WATERS

## Spot Inspections:

Discharge Amount:	10 GAL
Cause:	LACK OF CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

DISPU	Temporary signs posted	
DISFU	remporary signs posted	





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022420 (Cont'd) MSD0202 HITE CREEK HITE CREEK EAST

**Activity Code / Description WO**# <u>Initiated</u> **Initiated By Assigned To Disch Status Event Date Problem** Result Completed Condition POWER OUTAGE 936759 07/31/09 12:00 AM MARKS JR DUNN JR DOCUMENTED 03/18/08 UNAUTHORIZED 07/31/09 12:15 DISDW: DRY WEATHER DISCHARGE (LG&E) DISCHAGE -PM WATERS

# Spot Inspections:

Discharge Amount:	52,500 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	DEBRIS OBSERVED
Repair:	POWER RETORED TO PUMP STATION

07/31/08 06:09 AM	DISPUB	msd notified public by web site
07/31/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/31/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022420 (Cont'd) MSD0202 HITE CREEK HITE CREEK EAST

**Activity Code / Description WO**# <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition LACK OF SYSTEM 957051 09/21/09 02:15 AM SINGLETON RHEINLAENDER DOCUMENTED 03/18/08 UNAUTHORIZED 09/21/09 06:29 DISREV: RAIN EVENT DISCHAGE -DISCHARGE JR CAPACITY AM WATERS

# Spot Inspections:

Discharge Amount:	12,700 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN THE AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR.

09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 02:15 AM	DISPUB	Temporary signs placed around the area





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022420 (Cont'd) MSD0202 HITE CREEK HITE CREEK EAST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSPL Sewer Treatment PlantMSD02025500 HITT RDHITE CREEKSTREAM

WO # **Activity Code / Description** <u>Initiated</u> **Initiated By** Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISDW: DRY WEATHER 948358 08/29/09 07:00 AM MARKS JR **DUNN JR** REPAIRED -08/29/09 BYPASS AT WQTC **UNAUTHORIZED** 08/29/09 07:20 DISCHARGE ISSUE DISCHAGE -AM **RESOLVED** WATERS

#### Spot Inspections:

Discharge Amount:	25,000 GAL
Cause:	OBSTRUCTION IN DISCHARGE LINE FROM SAND FILTER TO UV SYSTEM
Clean Up:	MSD WILL CLEAN AND SANITIZE AREA
Control Zone:	AREA TAPED OFF AND SIGNS POSTED
Impact:	NO IMPACT OR DEBRIS OBSERVED TREATED WATER WITHOUT UV PROCESS
Repair:	USING PUMP AROUND FOR ADDITIONAL STORAGE UNTIL REPAIRS ARE COMPLETED

08/29/09 07:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/31/09 12:26 PM	DISPUB	PUBLIC NOTIFIED BY WEBSITE AND SIGNS

Condition



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID KY0022420 (Cont'd) MSD0202 Water Quality Treatement Center HITE CREEK

Receiving Stream of Treatment Center HITE CREEK

Region EAST

Activity Code / Description
DISDW: DRY WEATHER
DISCHARGE

<u>WO #</u> 948395 <u>Initiated</u> 08/29/09 03:17 PM Initiated By MARKS JR Assigned To DUNN JR <u>Disch Status</u> REPAIRED -ISSUE

**RESOLVED** 

Event Date Problem
08/29/09 BYPASS AT WQTC

Result
UNAUTHORIZED
DISCHAGE -

Completed 08/29/09 06:00

CHAGE - PM

WATERS

Spot Inspections:

Discharge Amount:	10,000 GAL
Cause:	OBSTRUCTION IN LINE BETWEEN SAND FILTERS AND UV SYSTEM
Clean Up:	MSD CLEANED AND SANITIZED AREA
Control Zone:	TAPE AND SIGNS ARE POSTED
Impact:	NO IMPACT OBSERVED WATER IS TREATED ONLY MISSING UV SYSTEM
Repair:	WILL CONT REPAIRS AND PUMP AROUND TILL REPAIRS ARE COMPLETE

08/29/09 06:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/31/09 12:27 PM	DISPUB	PUBLIC NOTIFIED BY WEBSITE AND SIGNS POSTED





KPDES #Facility IDWater Quality Treatement CenterReceiving Stream of Treatment CenterRegionKY0036501MSD0209BERRYTOWNFLOYDS FORKCENT

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSPL Sewer Treatment PlantMSD02091203 HEAFER RDFLOYDS FORKSTREAM

WO # Activity Code / Description <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 938663 08/04/09 04:50 PM **ELDER** LANGFORD REPAIRED -08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 10:00 РМ DISCHARGE ISSUE **CAPACITY** DISCHAGE -**RESOLVED** WATERS

### Spot Inspections:

Discharge Amount:	38,000 GAL
Cause:	STRUCTURE FAILURE, RUSTED HOLES IN TANK
Clean Up:	CONTRACTOR CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	MAINTENANCE PERSONNEL IS WORKING ON REPAIRING THE TANKS; WATER RECEDED TO NORMAL LEVELS

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 04:50 PM	DISPUB	Temporary signs posted
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0025194 MSD0255 JEFFERSONTOWN CHENOWETH RUN CENT

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 28250 3506 CHARLANE PKY CHENOWETH RUN DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938634 08/04/09 06:22 PM SIVADO **GRIFFITH** DOCUMENTED 01/03/05 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 08:57 РМ DISCHARGE **CAPACITY** DISCHAGE -WATERS

### Spot Inspections:

Discharge Amount:	11,500 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #940850 CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACED AROUND DISCHARGE AREA
Impact:	LITTLE IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 09:02 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0025194 (Cont'd) MSD0255 JEFFERSONTOWN CHENOWETH RUN CENT

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSMH Sewer Manhole283403620 CHARLANE PKYCHENOWETH RUNGROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938635 08/04/09 06:45 PM SIVADO **GRIFFITH** DOCUMENTED 01/03/05 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 07:15 DISCHARGE **CAPACITY** DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	1,500 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #940838 HAS BEEN CREATED FOR I&FP FO THIS LOCATION
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACE AROUND DISCHARGE AREA
Impact:	VERY LITTLE IMPACT OBSERVED DUE TO THE MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTEB ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 09:06 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGER AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0025194 (Cont'd) MSD0255 JEFFERSONTOWN CHENOWETH RUN CENT

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 64096 4710 CHENOWETH RUN RD CHENOWETH RUN RD CHENOWETH RUN

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935802 07/29/09 09:53 AM **ELDER SKAGGS** DOCUMENTED 03/19/08 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 02:05 DISCHARGE **CAPACITY** DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	37,500 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	PERMENANT SIGHS IN AREA
Impact:	SEWAGE OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIRS

07/29/09 10:23 AM	DISPUB	permenant signs in area of creek
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0025194 (Cont'd) MSD0255 JEFFERSONTOWN CHENOWETH RUN CENT

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSLS Sewer Lift StationMSD0151-PS4304 RIVANNA DRMONTICELLO PLACEFERN CREEKGROUND

WO # Activity Code / Description Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938356 08/04/09 03:22 PM **ELDER SKAGGS** DOCUMENTED 03/19/08 **POWER OUTAGE UNAUTHORIZED** 08/04/09 03:32 DISCHARGE (LG&E) DISCHAGE -PMWATERS

# Spot Inspections:

Discharge Amount:	500 GAL
Cause:	LG&E POWER OUTAGE
Clean Up:	NO DEBRIS
Control Zone:	PERMANENT SIGNS POSTED
Impact:	SEWAGE ON GROUND
Repair:	LG&E RESTORED POWER

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 03:22 PM	DISPUB	PERMANENT SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0025194 (Cont'd) MSD0255 JEFFERSONTOWN CHENOWETH RUN CENT

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SPL Sewer Treatment Plant MSD0255 10725 OLD TAYLORSVILLE RD CHENOWETH RUN STREAM

WO # **Activity Code / Description** <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 932248 07/22/09 04:58 PM **ELDER** LANGFORD DOCUMENTED 01/14/07 **BLENDING AT JTOWN** UNAUTHORIZED 07/22/09 05:01 DISCHARGE WQTC DISCHAGE -PMWATERS

#### Spot Inspections:

Peak Plant Flow when Blending:	10,290,000 GPD
Total Plant Flow when Blending:	5,910,000 GAL
Discharge Amount:	402 GAL
Cause:	RAIN EVENT IN AREA, HIGH FLOW
Clean Up:	PIPE SUBMERGED,BLEND, NO CLEANUP NECESSARY
Control Zone:	PERMENANT SIGNS AROUND AFFECTED AREA
Impact:	NO IMPACT OBSERVED
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

07/23/09 08:18 AM	DISPUB	Permenant signs along creek
07/23/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0025194 (Cont'd) Facility ID MSD0255

Water Quality Treatement Center JEFFERSONTOWN Receiving Stream of Treatment Center CHENOWETH RUN

Region CENT

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

**WO #** 935691

<u>Initiated</u> 07/29/09 07:53 AM Initiated By ELDER Assigned To Dis

Disch Status

DOCUMENTED

Event Date Problem

01/14/07 BLENDING AT JTOWN
WQTC

DWN UNAUTHORIZED DISCHAGE -

Result

Completed 07/29/09 02:25 PM

WATERS

Spot Inspections:

r to the contract of the contr		
Peal Plant Flow when Blending:	16,880,000 GPD	
Total Plant Flow when Blending:	7,290,000 GAL	
Discharge Amount:	548,114 GAL	
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	
Clean Up:	NO CLEAN UP REQUIRED	
Control Zone:	SIGNS POSTED AND PUBLIC NOTIFIED BY WEB SITE	
Impact:	NO IMPACT OBSERVED	
Repair:	NEGOTATIONS ARE UNDERWAY TO ALLOW BLENDING AT THIS LOCATION	

07/29/09 08:45 AM	DISPUB	public notified by signs posted and msd web site update
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0025194 (Cont'd) Facility ID MSD0255

Water Quality Treatement Center JEFFERSONTOWN

Receiving Stream of Treatment Center CHENOWETH RUN

Region CENT

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

**WO #** 937958

Initiated 08/04/09 10:12 AM

Initiated By ELDER Assigned To WRIGHT Disch Status

DOCUMENTED

01/14/07

Problem

BLENDING AT JTOWN

WQTC

UNAUTHORIZED DISCHAGE -WATERS

Result

Completed 08/05/09 02:24

AM

# Spot Inspections:

Peal Plant Flow when Blending:	17,770,000 GPD	
Total Plant Flow when Blending:	14,170,000 GAL	
Discharge Amount:	1,932,553 GAL	
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN	
Clean Up:	NO CLEANUP REQUIRED, EFFLUENT RECEIVED PRIMARY AND UV TREATMENT	
Control Zone:	PERMENANT SIGNS POSTED	
Impact:	NO VISUAL IMPACT OBSERVED	
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION	

08/04/09 10:24 AM	DISPUB	PERMANENT SIGNS AROUND AREA & MSD WEBPAGE UPDATES
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# KY0025194 (Cont'd) **Facility ID** MSD0255

**Water Quality Treatement Center JEFFERSONTOWN** 

**Receiving Stream of Treatment Center CHENOWETH RUN** 

Region **CENT** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 956924

<u>Initiated</u> 09/20/09 10:38 PM Initiated By **ELDER** 

**Assigned To** WRIGHT

**Disch Status** DOCUMENTED **Event Date** 01/14/07

<u>Problem</u> **BLENDING AT JTOWN** WQTC

Result UNAUTHORIZED DISCHAGE -WATERS

Completed Condition 09/21/09 02:18

AM

Spot Inspections:

Peal Plant Flow when Blending:	15,250,000 GPD	
Total Plant Flow when Blending:	9,910,000 GAL	
Discharge Amount:	312,827 GAL	
Cause:	BLENDING DUE TO LACK OF SYSTEM CAPACITY DUE TO RAIN IN AREA	
Clean Up:	NO CLEANUP REQUIRED, EFFLUENT RECEIVED PRIMARY AND UV TREATMENT	
Control Zone:	PERMENANT SIGNS POSTED & TEMPORARY SIGNS PLACED AT EFFLUENT OF TREATMENT PLANT	
Impact:	NO IMPACTS OBSERVED	
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION	

09/21/09 07:22 AM	DISPUB	A PERMANENT SIGN IS POSTED AT THE OUTFALL OF THE TREATMENT PLANT, Temporary signs placed at effluent of treatment plant and internet web site used to inform public
09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# KY0025194 (Cont'd) **Facility ID** MSD0255

**Water Quality Treatement Center JEFFERSONTOWN** 

WRIGHT

**Receiving Stream of Treatment Center CHENOWETH RUN** 

Region **CENT** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 961483

<u>Initiated</u> 09/26/09 10:21 PM

Initiated By MARKS JR

**Assigned To Disch Status** DOCUMENTED **Event Date** 01/14/07

<u>Problem</u> **BLENDING AT JTOWN** 

WQTC

UNAUTHORIZED DISCHAGE -WATERS

Result

Completed 09/27/09 03:19

AM

Spot Inspections:

Peal Plant Flow when Blending:	14,458,000 GPD	
Total Plant Flow when Blending:	9,722,000 GAL	
Discharge Amount:	254,916 GAL	
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA	
Clean Up:	NO CLEAN UP REQUIRED EFFLUENT RECIEVED PRIMARY AND UV TREATMENT	
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA	
Impact:	NO IMPACT OBSERVED - MAGNITUDE OF STORM FLUSHED SOLIDS AND DEBRIS FROM SITE	
Repair:	NOGOTATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION	

09/27/09 12:30 AM	DISPUB	MSD notified public with temporary signs and web site
09/26/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/26/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# KY0025194 (Cont'd) **Facility ID** MSD0255

**Water Quality Treatement Center JEFFERSONTOWN** 

**Receiving Stream of Treatment Center CHENOWETH RUN** 

Region **CENT** 

**Activity Code / Description** DISREV: RAIN EVENT

DISCHARGE

**WO**# 961491

<u>Initiated</u> 09/27/09 12:30 AM **Initiated By** MARKS JR

**Assigned To** MILLS

**Disch Status** DOCUMENTED Event Date **Problem** BYPASS AT WQTC 01/14/07

Result UNAUTHORIZED Completed 09/27/09 02:45

DISCHAGE -AM

WATERS

# Spot Inspections:

Discharge Amount:	100 GAL
Cause:	RAIN EVENT CAUSED LACK OF SYSTEM CAPACITY
Clean Up:	CONTRACTOR CLEANED & SANITIZED THE AREA; MSD LIMED.
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SOILDS SEWAGE AND DEBRIS OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP.

09/27/09 01:40 AM	DISPUB	msd notified public with temporary signs and web site
09/27/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/27/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0025194 (Cont'd) MSD0255 JEFFERSONTOWN CHENOWETH RUN CENT

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD1081-PS 11600 DIODE CT DIODE CT CHENOWETH RUN DITCH

WO # Activity Code / Description Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938415 08/04/09 03:58 PM **ELDER** LANGFORD REPAIRED -08/04/09 **ELECTRICAL UNAUTHORIZED** 08/04/09 04:00 РМ DISCHARGE ISSUE PROBLEMS AT MSD DISCHAGE -**RESOLVED** WATERS

#### Spot Inspections:

Discharge Amount:	50 GAL
Cause:	OVERLOADED CIRCUIT BREAKERS TRIPPED
Clean Up:	CLEAN UP NOT POSSIBLE
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE ON GROUND
Repair:	RESET THE OVERLOADS

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 03:58 PM	DISPUB	TEMPORARY SIGNS WERE POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 04542 3434 FERN LEA RD HEATHERFIELD DITCH DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938278 08/04/09 09:00 AM SINGLETON **KESSEL** DOCUMENTED 12/15/07 LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 05:30 РМ DISCHARGE **CAPACITY** DISCHAGE -WATERS

### Spot Inspections:

Discharge Amount:	9,999 GAL
Cause:	LACK OF SYSTEM CAPACITY- AREA FLOODED
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SOLIDS & DEBRIS OBSERVED
Repair:	THIS SITE WAS FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 09:00 AM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSMH Sewer Manhole04699-W1714 LAMKINS CTMILL CREEKGROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938646 08/04/09 10:00 AM **ELDER KESSEL** DOCUMENTED 12/15/07 LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 03:30 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	9,999 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO FLOODING
Clean Up:	DISCHARGE PIPE SUBMERGED - NO CLEAN UP DUE TO FLOODING
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED - DISCHARGE PIPE SUBMERGED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

08/05/09 11:11 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 08:00 PM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# KY0078956 (Cont'd) **Facility ID** MSD0277

**Water Quality Treatement Center DEREK R. GUTHRIE** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 957089

<u>Initiated</u> 09/21/09 01:00 AM Initiated By SINGLETON

Assigned To THOMPSON

**Disch Status** DOCUMENTED Event Date 12/15/07

<u>Problem</u> LACK OF SYSTEM CAPACITY

Result UNAUTHORIZED DISCHAGE -

WATERS

Completed 09/21/09 04:30

AM

Spot Inspections:

Discharge Amount:	9,999 GAL
Cause:	STATION UNDER WATER DUE TO RAIN EVENT
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS
Impact:	NO VISUAL IMPACT OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.

09/21/09 04:30 AM	DISPUB	Temporary signs posted
09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSMH Sewer Manhole06915-W3712 ROSA TERUPPER MILL CREEKGROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 938638 08/04/09 12:00 PM **ELDER HEACOCK FORCE** 08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 07:30 DISCHARGE **MAJEURE CAPACITY** DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	9,999 GAL
Cause:	LACK OF SYSTEM CAPACITY- STATION FLOODED.
Clean Up:	NO DEBRIS- STATION UNDER WATER
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED- STATION UNDER WATER
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

08/05/09 11:01 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 12:00 PM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 22370 6615 MOORMAN RD MILL CREEK GROUND

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 936222 07/29/09 03:33 PM GRIFFITH **GRIFFITH** DOCUMENTED 12/19/02 LACK OF SYSTEM **UNAUTHORIZED** 07/30/09 10:00 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

# Spot Inspections:

Discharge Amount:	320,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	NONE NEEDED-LOCATION IN VERY REMOTE ISOLATED AREA
Impact:	SOLIDS AND DEBRIS OBSERVED AROUND DISCHARGE SITE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 03:33 PM	DISPUB	Permanent signs posted to notify public.
07/29/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 32682 6707 W ORELL RD ALVEY DITCH STREAM

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938662 08/04/09 08:20 AM GRIFFITH **GRIFFITH** DOCUMENTED 03/12/06 LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 05:00 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	27,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #940869 CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	NO CONTORL NEEDED- VERY REMOTE AREA
Impact:	LIGHT IMPACT OBSERVED DUE TO MAGNITUDE OF THE STORM
Repair:	THIS LOCATION IS ON A TELEMETRY ALARM SYSTEM AND IE VERY CLOSELY MONITORED

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 09:26 PM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 60709-W 10805 ORELAND MILL RD PENNSYLVANIA RUN DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938639 08/04/09 04:00 PM **ELDER HEACOCK** REPAIRED -08/04/09 POWER OUTAGE **UNAUTHORIZED** 08/04/09 04:30 РМ DISCHARGE ISSUE (LG&E) DISCHAGE -**RESOLVED** WATERS

# Spot Inspections:

Discharge Amount:	1,500 GAL
Cause:	LG&E POWER OUTAGE
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO VISUAL IMPACT
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

### Notifications:

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 04:00 PM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

10/6/2009 Page 27 of 198 3:33:02 PM





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 81814-W 2601 PIONEER RD MILL CREEK DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By **Assigned To** Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938273 08/04/09 09:00 AM SINGLETON **PATTERSON** DOCUMENTED 01/24/02 LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 03:00 DISCHARGE **CAPACITY** DISCHAGE -PMWATERS

# Spot Inspections:

Discharge Amount:	9,999 GAL
Cause:	THE STATION AND THE AREA AROUND IT FLOODED DUE TO HEAVY RAIN
Clean Up:	NO DEBRIS- AREA FLOODED
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED DUE TO FLOODING
Repair:	THIS SITE WAS FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 09:00 AM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 92098 7801 EDSEL LN FERN CREEK GROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938269 08/04/09 01:00 PM SINGLETON **VIERLING** DOCUMENTED 05/16/08 **POWER OUTAGE UNAUTHORIZED** 08/04/09 02:14 DISCHARGE (LG&E) DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	3,700 GAL
Cause:	LG&E POWER FAILURE
Clean Up:	MSD RAKED & BAGGED DEBRIS
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO VISUAL IMPACT OBSERVED
Repair:	LG&E RESTORED POWER

08/04/09 01:00 PM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSMH Sewer Manhole920997801 EDSEL LNFERN CREEKGROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938261 08/04/09 01:00 PM SINGLETON **VIERLING** REPAIRED -08/04/09 POWER OUTAGE **UNAUTHORIZED** 08/04/09 02:14 DISCHARGE ISSUE (LG&E) DISCHAGE -PM**RESOLVED** WATERS

# Spot Inspections:

Discharge Amount:	7,400 GAL
Cause:	LG&E POWER FAILURE - STORMS IN THE AREA
Clean Up:	MSD RAKED & BAGGED DEBRIS
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	LG&E RESTORED POWER

08/04/09 01:00 PM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 94541 7420 VAUGHN MILL RD PENNSYLVANIA RUN DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935741 07/29/09 08:50 AM **ELDER** LAMBDIN JR DOCUMENTED 07/29/09 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 09:17 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	675 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS PLACED AROUND AFFECTED AREA
Impact:	SEWAGE OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

07/29/09 09:18 AM	DISPUB	Temporary signs posted around affected area
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 94542 7201 OUTER LOOP PENNSYLVANIA RUN DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935747 07/29/09 08:50 AM **ELDER** LAMBDIN JR DOCUMENTED 07/29/09 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 09:17 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	675 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 08:50 AM	DISPUB	Temporary signs posted
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSLS Sewer Lift StationMSD0044-PS3951 CANE RUN RDJACKS LANELYNNVIEW DITCHGROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938647 08/04/09 10:10 AM **ELDER HEACOCK** REPAIRED -08/04/09 **ELECTRICAL UNAUTHORIZED** 08/04/09 01:00 РМ DISCHARGE ISSUE PROBLEMS AT MSD DISCHAGE -**RESOLVED** WATERS

#### Spot Inspections:

Discharge Amount:	100 GAL
Cause:	ELECTRICAL SHORT IN CONTROL PANEL DUE TO FLOODING
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO VISUAL IMPACT OBSERVED
Repair:	GENERATOR PLACED & CONTROLS REPAIRED

08/05/09 11:14 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov	
08/04/09 10:10 AM	DISPUB	TEMPORARY SIGNS POSTED	
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov	





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD0101-PS 9317 LANTANA DR LANTANA DRIVE #1 PENNSYLVANIA RUN DITCH

WO # Activity Code / Description Initiated **Initiated By** Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 936240 07/29/09 08:00 AM MARKS JR **PATTERSON** DOCUMENTED 12/16/00 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 11:00 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	10,125 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	NO DEBRIS OBSERVED
Control Zone:	TEMP SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR AND EVALUATE FOR REPAIR HAUL WO#936781

07/29/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 11:00 AM	DISPUB	Temporary signs posted
07/29/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSLS Sewer Lift StationMSD0133-PS10212 CAVEN AVECAVEN AVEMUD CREEKGROUND

WO # Activity Code / Description Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938643 08/04/09 07:20 PM **ELDER FERRIELL** DOCUMENTED 04/04/08 PUMPED OVERFLOW **UNAUTHORIZED** 08/05/09 08:45 DISCHARGE DISCHAGE -PMWATERS

# Spot Inspections:

Discharge Amount:	21,250 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	SET PUMP TO PREVENT BASEMENT FLOODING UNTIL HAULING FROM STATION WAS AVAILABLE

08/04/09 07:20 PM	DISPUB	MSD ADVISED CUSTOMER ON SITE & POSTED TEMPORARY SIGNS
08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD0140-PS 423 ECHAPPE LN TREE LINE BEE LICK CREEK DITCH

WO # Activity Code / Description Initiated Initiated By Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 938282 08/04/09 12:06 PM SINGLETON **KESSEL FORCE** 08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 12:45 DISCHARGE **MAJEURE CAPACITY** DISCHAGE -AM WATERS

## Spot Inspections:

Discharge Amount:	61,500 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE & DEBRIS OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR.

08/04/09 12:06 PM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD0163-LS 11006 WAYCROSS AVE WAYCROSS AVENUE PENNSYLVANIA RUN DITCH

WO # Activity Code / Description Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938640 08/04/09 05:45 PM **ELDER HEACOCK FORCE** 08/04/09 PUMPED OVERFLOW **UNAUTHORIZED** 08/05/09 03:00 DISCHARGE **MAJEURE** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	138,750 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR.

08/04/09 05:45 PM	DISPUB	TEMPORARY SIGNS POSTED
08/05/09 10:56 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD0180-PS 7201 OUTER LOOP GOVERNMENT CENTER PENNSYLVANIA RUN DITCH

WO # Activity Code / Description Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935739 07/29/09 08:50 AM **ELDER** LAMBDIN JR DOCUMENTED 12/16/00 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 09:17 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	675 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	PERMENT SIGNS
Impact:	SEWAGE OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

07/29/09 09:14 AM	DISPUB	Permenant signs in area
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SPL Sewer Treatment Plant MSD0277 11621 LOWER RIVER RD OHIO RIVER STREAM

WO # **Activity Code / Description** <u>Initiated</u> **Initiated By** Assigned To Disch Status Event Date **Problem** Result Completed Condition DISDW: DRY WEATHER 955750 09/16/09 03:25 AM MARKS JR LAMBDIN JR DOCUMENTED 10/17/06 BYPASS AT WQTC **UNAUTHORIZED** 09/16/09 03:28 DISCHARGE DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	153,000 GAL
Cause:	#2 BISULFITE PUMP NOT PUMPING ENOUGH
Clean Up:	NO DEBRIS
Control Zone:	PIPE DISCHARGE SUBMERGED NO CONTROL ZONE
Impact:	NO IMPACT OBSERVED
Repair:	STARTED #1 BISULFITE PUMP RETOOK CL2 READING

09/16/09 12:47 PM	DISPUB	Bypass stopped within 3 minutes. Public notice was not posted on the website because overflow was directly into the Ohio River and was quickly diluted.  (Per BB)
09/16/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD1010-PS 5006 LEA ANN WAY LEA ANN WAY NORTHERN DITCH STREAM

WO # Activity Code / Description Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 936016 07/29/09 10:00 AM SINGLETON **PATTERSON** DOCUMENTED 12/15/07 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 11:00 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

## Spot Inspections:

Discharge Amount:	30,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS ARE POSTED
Impact:	SEWAGE OBSERVED
Repair:	WILL MONITOR & EVALUATE SITE FOR REPAIR

07/29/09 10:00 AM	DISPUB	Temporary signs are posted.
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



KPDES # KY0078956 (Cont'd) Facility ID MSD0277

Water Quality Treatement Center DEREK R. GUTHRIE

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

WO # 938595 Initiated 08/04/09 12:00 PM Initiated By SINGLETON Assigned To OTTO Disch Status

DOCUMENTED

Event Date Proble 12/15/07 LACK

Problem

LACK OF SYSTEM

CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

Completed Condition 08/05/09 01:00

AM

WATERS

# Spot Inspections:

Discharge Amount:	468,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	DEBRIS OBSERVED
Repair:	THIS SITE WAS FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR.

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 12:00 PM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 (Cont'd) MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD1013-PS 9114 CINDERELLA LN CINDERELLA STATE FISHPOOL CREEK DITCH

WO # Activity Code / Description Initiated **Initiated By** Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 936223 07/29/09 08:30 AM MARKS JR **PATTERSON** DOCUMENTED 11/29/01 **ELECTRICAL UNAUTHORIZED** 07/29/09 12:50 DISCHARGE PROBLEMS AT MSD DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	6,500 GAL
Cause:	#1 PUMP TRIPPED OUT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS WERE PLACED AROUND THE AFFECTED AREA
Impact:	SOLIDS WERE OBSERVED
Repair:	HAULED TO PREVENT FURTHER OVERFLOW; CONTRACTOR REPAIRING PUMP

07/29/09 05:23 PM	DISPUB	Temporary signs were placed around the affected area
07/30/09 03:31 PM	DISNOT	Manually sent email notification of unauthorized discharge to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# KY0078956 (Cont'd) **Facility ID** MSD0277

**Water Quality Treatement Center DEREK R. GUTHRIE** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 940818

<u>Initiated</u> 08/04/09 11:00 AM Initiated By SINGLETON

Assigned To THOMPSON

**Disch Status** DOCUMENTED Event Date 11/29/01

**Problem** LACK OF SYSTEM CAPACITY

Result UNAUTHORIZED DISCHAGE -

WATERS

Completed 08/05/09 01:00

AM

Spot Inspections:

Discharge Amount:	9,999 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO AREA FLOODING
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	STATION COMPLETELY SUBMERGED - SEWAGE OBSERVED
Repair:	HAULING- WO#938692

08/04/09 11:00 AM	DISPUB	TEMPORARY SIGNS POSTED
08/07/09 01:11 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # KY0078956 (Cont'd) Facility ID MSD0277

Water Quality Treatement Center DEREK R. GUTHRIE

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT

DISCHARGE

<u>WO #</u> 961484 <u>Initiated</u> 09/26/09 10:30 PM Initiated By MARKS JR Assigned To KESSEL Disch Status

DOCUMENTED

Event Date Problem
11/29/01 LACK OF S

LACK OF SYSTEM
CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

WATERS

Completed Condition 09/27/09 09:00

AM

## Spot Inspections:

Discharge Amount:	3,300 GAL
Cause:	LACK OF SYSTEM CAPACITY DURING RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE & DEBRIS OBSERVED
Repair:	HAULING TO PREVENT FURTHER DISCHARGE. #961575

09/27/09 12:35 AM	DISPUB	msd used temporary signs and web site to inform public
09/26/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/26/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 00056-W 804 N ARBOR DR MIDDLE FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 935736 07/29/09 08:37 AM ELDER VIERLING DOCUMENTED 12/15/07 LACK OF SYSTEM UNAUTHORIZED 07/29/09 09:20

DISCHARGE CAPACITY DISCHAGE - AM

DISCHARGE CAPACITY DISCHAGE - A WATERS

## Spot Inspections:

Discharge Amount:	1,075 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 09:20 AM	DISPUB	temporary signs posted
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

WATERS

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description WO**# <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition LACK OF SYSTEM 08/04/09 12:45 938189 08/04/09 11:45 AM **ELDER ALEXANDER** DOCUMENTED 12/15/07 UNAUTHORIZED DISREV: RAIN EVENT DISCHARGE CAPACITY DISCHAGE -PM

# Spot Inspections:

Discharge Amount:	600 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	PERMANAENT SIGNS POSTED IN AREA
Impact:	SEWAGE ON THE GROUND
Repair:	HAULING #938194

08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 12:27 PM	DISPUB	PERMANENT SIGNS POSTED
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 00746 804 N ARBOR DR MIDDLE FORK DITCH

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISCHARGE (LG&E) DISCHAGE - WATERS

# Spot Inspections:

Discharge Amount:	15 GAL
Cause:	LG&E POWER FAILURE
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS LOCATED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.

08/11/09 06:03 AM	DISPUB	TEMPORARY SIGNS PLACED AROUND AFFECTED AREA
08/11/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/11/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 02932 8021 CHRISTIAN CT MIDDLE FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938562 08/04/09 01:20 PM FIELDS GRIFFITH DOCUMENTED 03/19/08 LACK OF SYSTEM UNAUTHORIZED 08/04/09 03:59

DISCHARGE CAPACITY DISCHAGE - PM

WATERS

## Spot Inspections:

Discharge Amount:	45,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP REQUIRED
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACED AROUND DISCHARGED AREA
Impact:	NO IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 08:17 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 02933 7900 SHELBYVILLE RD MIDDLE FORK STREAM

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935843 07/29/09 09:05 AM SIVADO **GRIFFITH** DOCUMENTED 03/04/08 LACK OF SYSTEM UNAUTHORIZED 07/29/09 02:00

DISCHARGE

CAPACITY

DISCHAGE - PM

WATERS

## Spot Inspections:

Discharge Amount:	110,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS HAVE BEEN PLACE AT THIS LOCATION
Impact:	LIGHT DEBRIS OBSERVED AROUND DISCHARGE LOCATION
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 09:05 AM	DISPUB	PUBLIC WAS NOTIFIED THROUGHDOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGED CONTENT
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT

DISCHARGE

**WO**# 938457 <u>Initiated</u>

08/04/09 12:35 PM

Initiated By **FIELDS** 

**Assigned To GRIFFITH** 

**Disch Status** DOCUMENTED Event Date **Problem** LACK OF SYSTEM 03/04/08

CAPACITY

Result UNAUTHORIZED DISCHAGE -

Completed 08/04/09 03:59 PM

WATERS

## Spot Inspections:

Discharge Amount:	2,300 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP NECESSARY
Control Zone:	DOOR HANGER, CONES, AND TEMP SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	NO DEBRIS OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 02:40 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP SIGNS TO AVOID CONTACT WITH DISCHARGE
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

4315 PRUITT CT **GROUND** 08426 SMH Sewer Manhole SOUTH FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 938518 08/04/09 11:25 AM JOHNSON JR **GRIFFITH FORCE** 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 09:30 DISCHARGE **MAJEURE** PM

CAPACITY DISCHAGE -

**WATERS** 

Spot Inspections:

Discharge Amount:	110,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941840
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	LIGHT SOLIDS AND DEBRIS OBSERVED DUE TO THE MAGNITUDE OS THE STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 07:25 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 08430 4341 PRUITT CT SOUTH FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938377 08/04/09 11:30 AM SYDNOR GRIFFITH FORCE 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 07:40

DISCHARGE MAJEURE CAPACITY DISCHAGE - PM WATERS

## Spot Inspections:

Discharge Amount:	81,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP REQUIRED
Control Zone:	DOOR HANGERS AND CONES WERE PLACED AROUND IMPACTED AREA
Impact:	DUE TO THE MAGNITUDE OF THE STORM NO DEBRIS OBSERVED
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 02:16 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

WATERS



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description** WO # <u>Initiated</u> Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition LACK OF SYSTEM 08/04/09 09:34 938526 08/04/09 12:26 PM JOHNSON JR **GRIFFITH** FORCE 08/04/09 UNAUTHORIZED DISREV: RAIN EVENT CAPACITY DISCHARGE **MAJEURE** DISCHAGE -PM

Spot Inspections:

Discharge Amount:	72,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP REQUIRED
Control Zone:	TEMPORARY SIGNS AND DOOR HANGERS WERE PLACED AROUND IMPACTED AREA
Impact:	NONE OBSERVED DUE TO MAGNITUDE OF THE STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 07:40 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SSL Sewer Service Line 085100050045A 4344 PRUITT CT SOUTH FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 941098 08/04/09 12:30 PM FRENCH GRIFFITH FORCE 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 08:00

DISCHARGE MAJEURE CAPACITY DISCHAGE - PM WATERS

## Spot Inspections:

Discharge Amount:	11,250 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	NO CLEAN UP REQUIRED AT THIS LOCATION DUE TO THE MAGNITUDE OF STORM
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND DISCHARGE
Impact:	SEWER WATER OBSERVED OVERFLOWING FROM PROPERTY SERVICE CONNECTION CLEAN OUT
Repair:	THIS LOCATION WILL BE MONITORED FOR FUTURE OVERFLOWS

08/07/09 02:59 PM	DISPUB	SPOKE WITH PROPERTY OWNERS IN THE VICINITY AND PLACED TEMPORARY OVERFLOW WARNING SIGNS
08/08/09 01:29 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SSL Sewer Service Line 085100290046A 4332 PRUITT CT SOUTH FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 941110 08/04/09 12:30 PM FRENCH GRIFFITH FORCE 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 08:00

DISCHARGE MAJEURE CAPACITY DISCHAGE - PM WATERS

# Spot Inspections:

Discharge Amount:	11,250 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN
Clean Up:	NO CLEAN UP REQUIRED AT THIS LOCATION DUE TO MAGNITUDE OF STORM
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND DISCHARGE
Impact:	SEWER WATER OBSERVED OVERFLOWING FROM PROPERTY SERVICE CONNECTION CLEAN OUT
Repair:	A REPAIR WORK ORDER WILL BE CREATED FOR THIS LOCATION

08/07/09 03:04 PM	DISPUB	SPOKE WITH PROPERTY OWNERS IN THE VICINITY AND PLACED TEMPORARY OVERFLOW WARNING SIGNS
08/08/09 01:31 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 08537 3417 BENNETT LN GREASY DITCH STREAM

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938712 08/04/09 12:12 PM GRIFFITH **GRIFFITH** DOCUMENTED 09/27/02 LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 07:30 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	28,950,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN UP REQUIRED AT THIS LOCATION DUE TO MAGNITUDE OF STORM
Control Zone:	DOOR HANGERS AND BARRICADES WERE PLACED AROUND DISCHARGE AREA
Impact:	NO IMPACT OBSERVED DUE TO MAGNITUDE OF THE STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/05/09 01:46 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 09:13 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 08717 3726 FINCASTLE RD SOUTH FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938777 08/04/09 10:43 AM MITCHELL GRIFFITH DOCUMENTED 12/15/07 LACK OF SYSTEM UNAUTHORIZED 08/04/09 06:21

DISCHARGE CAPACITY DISCHAGE - PM

DISCHARGE CAPACITY DISCHAGE - WATERS

## Spot Inspections:

Discharge Amount:	144,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941596
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND DISCHARGE AREA
Impact:	VERY LITTLE IMPACT OBSERVED DUE TO THE MAGNITUDE OF STORM
Repair:	SITE FOUND DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 10:46 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 11:12 AM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 08935-SM 1001 BRECKENRIDGE LN MIDDLE FORK STREAM

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 935656 07/29/09 05:55 AM GRIFFITH GRIFFITH DOCUMENTED 11/29/01 LACK OF SYSTEM UNAUTHORIZED 07/30/09 09:13

DISCHARGE CAPACITY DISCHAGE - AM

DISCHARGE CAPACITY DISCHAGE - WATERS

## Spot Inspections:

Discharge Amount:	1,350,710 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	PERMANENT SIGNS A PLACE AROUND IMPACTED AREA
Impact:	SOLIDS AND DEBRIS OBSERVED AROUND DISCHARGE LOCATION
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED IN DECEMBER 31, 2008

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 05:55 AM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID CONTACT WITH DISCHARGED CONTENT
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID
KY0022411 (Cont'd) MSD0278

Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

<u>WO #</u> 938432 <u>Initiated</u> 08/04/09 10:08 AM Initiated By GRIFFITH Assigned To GRIFFITH Disch Status

DOCUMENTED

Event Date Problem
11/29/01 LACK OF SYSTEM

CAPACITY

Result
UNAUTHORIZED
DISCHAGE WATERS

Completed 08/05/09 09:06

PM

# Spot Inspections:

Discharge Amount:	6,943,977 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP NECESSARY
Control Zone:	PERMANENT SIGNS POSTED
Impact:	NO SOLIDS OR DEBRIS OBSERVED
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 02:35 PM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS OF THE DANGERS OF DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Strea

KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER

Receiving Stream of Treatment Center Region
OHIO RIVER WEST

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

<u>WO #</u> 956857 <u>Initiated</u> 09/20/09 11:15 PM Initiated By MITCHELL Assigned To GRIFFITH Disch Status

DOCUMENTED

Event Date Problem
11/29/01 LACK OF SYSTEM

CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

WATERS

Completed 09/21/09 02:41

AM

# Spot Inspections:

Discharge Amount:	147,609 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NONE NEEDED-SUBMERGED PIPE
Control Zone:	PERMANT SIGNS ARE PRESENT AROUND IMPACTED AREA
Impact:	NONE OBSERVED-PIPE SUBMERGED
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

09/20/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 11:10 AM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
09/20/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 09960 342 MAC BRAE RD NORTHERN DITCH GROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 938286 08/04/09 09:45 AM SINGLETON **FLORENCE FORCE** 08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 08:00 РМ DISCHARGE **MAJEURE CAPACITY** DISCHAGE -WATERS

#### Spot Inspections:

Discharge Amount:	153,750 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	AREA HAS BEEN RAKED & SANITIZED
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	DEBRIS & SOLIDS OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS IN THE INTEGRATED OVERFLOW ABATEMENT PLAN

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 09:45 AM	DISPUB	TEMPORARY SIGNS WERE POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 09960B 339 MAC BRAE RD NORTHERN DITCH GROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 938256 08/04/09 09:45 AM SINGLETON **FLORENCE FORCE** 08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 08:00 РМ DISCHARGE **MAJEURE CAPACITY** DISCHAGE -WATERS

## Spot Inspections:

Discharge Amount:	153,750 GAL
Cause:	SURCHARGED SEWER LINE CAUSED BACKUP FROM MANHOLE.
Clean Up:	AREA HAS BEEN RAKED & SANITIZED
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	DEBRIS & SOLIDS OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS IN THE INTEGRATED OVERFLOW ABATEMENT PLAN

08/04/09 09:45 AM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSMH Sewer Manhole1042314119 LEE AVECAMP TAYLOR DITCHGROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935829 07/29/09 07:12 AM **FISHER GRIFFITH** DOCUMENTED 10/23/07 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 01:35 DISCHARGE **CAPACITY** DISCHAGE -PMWATERS

## Spot Inspections:

Discharge Amount:	75,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE HAVE BEEN PLACE AROUND DISCHARGE SITE
Impact:	LIGHT SOLIDS AND DEBRIS WERE OBSERVED AOUND IMPACTED AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 07:12 AM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



WATERS



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description WO**# <u>Initiated</u> **Initiated By Assigned To Disch Status** Event Date **Problem** Result Completed Condition **GRIFFITH** LACK OF SYSTEM 938196 08/04/09 10:21 AM MITCHELL DOCUMENTED 10/23/07 UNAUTHORIZED 08/05/09 06:15 DISREV: RAIN EVENT DISCHARGE CAPACITY DISCHAGE -AM

Spot Inspections:

Discharge Amount:	351,360 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941753
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	DUE TO MAGNITUDE OF STORM VERY LITTLE DEBRIS WAS OBSERVED AFTER DISCHARGE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2009

08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 01:41 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022411 (Cont'd) Facility ID MSD0278

Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT

DISCHARGE

<u>WO #</u> 956859 <u>Initiated</u> 09/20/09 09:15 PM

Initiated By MITCHELL

<u>Assigned To</u> GRIFFITH Disch Status

DOCUMENTED

10/23/07 LA

tte Problem

LACK OF SYSTEM
CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

WATERS

Completed 09/21/09 01:01

SE - PM

## Spot Inspections:

Discharge Amount:	52,500 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #958042
Control Zone:	TEMPORARY SIGNS, BARRICADES, AND CAUTION TAPE WERE PLACED AROUND IMPACTED AREA
Impact:	SOLIDS AND DEBRIS WERE OBSERVED AROUND DISCHARGE SITE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

09/20/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 09:36 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
09/20/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 105936 7713 WESTPORT RD GOOSE CREEK GROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938222 08/04/09 11:30 AM **ELDER** LARUE DOCUMENTED 03/04/08 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 05:35 DISCHARGE **CAPACITY** DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	1,800 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS PLACED AROUND AFFECTED AREA
Impact:	SEWAGE ON THE GROUND
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/17/09 07:50 AM	DISPUB	TEMPORARY SIGNS PLACED AND REMOVED 48 HOURS LATER
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 105938 7800 WESTPORT RD GOOSE CREEK DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 938220 08/04/09 11:30 AM **ELDER** LARUE **FORCE** 08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 02:20 DISCHARGE **MAJEURE CAPACITY** DISCHAGE -AM WATERS

## Spot Inspections:

Discharge Amount:	6,900 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE ON THE GROUND
Repair:	THIS SITE WAS FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 11:30 AM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 13931 1562 MCKAY AVE SOUTH FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938343 08/04/09 10:27 AM MITCHELL GRIFFITH DOCUMENTED 03/04/08 LACK OF SYSTEM UNAUTHORIZED 08/04/09 04:59

DISCHARGE CAPACITY DISCHAGE - PM WATERS

## Spot Inspections:

Discharge Amount:	77,760 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941794
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE POSTED AROUND IMPACTED AREA
Impact:	DUE TO MAGNITUDE OF STORM LIGHT SOLIDS AND DEBRIS OBSERVED
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 01:57 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

4119 LEE AVE **GROUND** 13943 SMH Sewer Manhole SOUTH FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 938335 08/04/09 10:22 AM MITCHELL **GRIFFITH** DOCUMENTED 03/19/08 LACK OF SYSTEM UNAUTHORIZED 08/04/09 10:03 DISCHARGE

CAPACITY

**WATERS** 

DISCHAGE -PM

## Spot Inspections:

Discharge Amount:	4,320 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	CLEAN-UP NOT REQUIRED
Control Zone:	DOOR HANGERS AND CAUTION TAPE WERE PLACED AROUND IMPACTED AREA
Impact:	DUE TO THE MAGNITUDE OF THE STORM, NO DEBRIS WAS OBSERVED AROUND IMPACTED AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITERY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 01:45 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID
KY0022411 (Cont'd) MSD0278

Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT

<u>WO #</u> 956861 Initiated 09/20/09 09:16 PM Initiated By MITCHELL Assigned To GRIFFITH Disch Status

DOCUMENTED

Event Date Problem
03/19/08 LACK OF

ProblemResultLACK OF SYSTEMUNAUTHORIZEDCAPACITYDISCHAGE -

WATERS

09/21/09 01:00 PM

Completed

DISCHARGE

# Spot Inspections:

Discharge Amount:	3,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER # 957965
Control Zone:	TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	TRACES OF SOLIDS AND DEBRIS WERE OBSERVED AROUND DISCHARGE AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

09/20/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 09:32 AM	DISPUB	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
09/20/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 16435 3728 CANOE LN MUDDY FORK GROUND

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 937988 08/04/09 10:26 AM **ELDER** RHEINLAENDE **FORCE** 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/05/09 01:00

DISCHARGE

R JR

MAJEURE

CAPACITY

DISCHAGE - AM

WATERS

# Spot Inspections:

Discharge Amount:	15,400 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN THE AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE ON THE GROUND
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.

08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 10:26 AM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 16649 1726 FRASER DR SOUTH FORK DITCH

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935779 07/29/09 06:35 AM MITCHELL **GRIFFITH** DOCUMENTED 01/24/02 LACK OF SYSTEM UNAUTHORIZED 07/29/09 01:30

DISCHARGE CAPACITY DISCHAGE - PM

WATERS

Spot Inspections:

Discharge Amount:	35,700 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	TEMPORARY SIGNS AND DOOR HANGERS HAVE BEEN PLACED AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS OBSERVED ON GROUND AROUND DISCHARGE SITE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 06:35 AM	DISPUB	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID
KY0022411 (Cont'd) MSD0278

Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT

DISCHARGE

<u>WO #</u> 938387 Initiated 08/04/09 11:50 AM Initiated By MITCHELL Assigned To GRIFFITH <u>Disch Status</u> DOCUMENTED <u>Event Date</u> <u>Pro</u> 01/24/02 LA

te Problem
LACK OF SYSTEM
CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

WATERS

**Completed** 08/06/09 01:45

PM

Spot Inspections:

Discharge Amount:	568,181 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941108
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACE AROUND IMPACTED AREA
Impact:	DUE TO THE MAGNITUDE OF THE STORM LITTLE DEBRIS OBSERVED
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 02:19 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



AM

DISCHAGE -

WATERS



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description** WO # <u>Initiated</u> **Initiated By Assigned To Disch Status Event Date Problem** Result Completed Condition **GRIFFITH** LACK OF SYSTEM 956863 09/20/09 10:07 PM MITCHELL DOCUMENTED 01/24/02 UNAUTHORIZED 09/21/09 11:15 DISREV: RAIN EVENT

DISCHARGE

## Spot Inspections:

Discharge Amount:	47,088 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #958055
Control Zone:	PIPE DISCHARGE SUBMERGED-NO CONTROL ZONE
Impact:	SEWAGE, SOLIDS, AND DEBRIS OBSERVED AROUND DISCHARGE AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

CAPACITY

09/20/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 01:49 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
09/20/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

3035 CARSON WAY 17571 **CATCH BASIN** SMH Sewer Manhole SOUTH FORK

BEARGRASS CREEK

PM

**Activity Code / Description** WO# **Initiated** Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 935925 07/29/09 10:20 AM **BRIGHT BRIGHT** DOCUMENTED 02/17/00 PUMPED OVERFLOW UNAUTHORIZED 07/29/09 12:20

DISCHAGE -

**WATERS** 

## Spot Inspections:

DISCHARGE

Discharge Amount:	173,500 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

07/29/09 12:04 PM	DISPUB	MSD PERSONNEL PLACED SIGNS
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 937949

<u>Initiated</u>

08/04/09 09:40 AM

**BRIGHT** 

**Initiated By** 

**Assigned To Disch Status BRIGHT** DOCUMENTED **Event Date** 02/17/00

**Problem** PUMPED OVERFLOW Result UNAUTHORIZED DISCHAGE -

WATERS

Completed 08/05/09 10:21

AM

## Spot Inspections:

Discharge Amount:	1,847,100 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 11:19 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SSL Sewer Service Line 181852 5006 DELAWARE DR SOUTH FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 939033 08/04/09 12:45 PM JOHNSON JR GRIFFITH FORCE 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 05:12

DISCHARGE MAJEURE CAPACITY DISCHAGE - PM

WATERS

# Spot Inspections:

Discharge Amount:	1,500 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941021
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND DISCHARGE AREA
Impact:	LIGHT DEBRIS OBSERVED AROUND IMPACTED AREA
Repair:	THIS SITE WAS FOUND DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 01:42 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 02:11 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONACT WITH DISCHARGE CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 18298 2201 GERALD CT SOUTH FORK STREAM

BEARGRASS CREEK

Activity Code / Description WO # Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938536 08/04/09 01:14 PM JOHNSON JR GRIFFITH DOCUMENTED 05/28/04 LACK OF SYSTEM UNAUTHORIZED 08/05/09 04:40
DISCHARGE CAPACITY DISCHAGE - AM

WATERS

## Spot Inspections:

Discharge Amount:	140,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941845
Control Zone:	DOOR HANGERS AND BARRICADE WERE PLACED AROUND IMPACT AREA
Impact:	LIGHT IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 07:53 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

2240 LIVERPOOL LN 18302 **CATCH BASIN** SMH Sewer Manhole SOUTH FORK

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 938548 08/04/09 01:17 PM JOHNSON JR **GRIFFITH** DOCUMENTED 03/20/08 LACK OF SYSTEM UNAUTHORIZED 08/04/09 08:30 DISCHARGE CAPACITY DISCHAGE -PM

**WATERS** 

## Spot Inspections:

Discharge Amount:	72,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941849
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	VERY LITTLE DEBRIS OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 07:56 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS ANF TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 18471 3107 DELL BROOKE AVE SOUTH FORK CATCH BASIN

BEARGRASS CREEK

Activity Code / Description WO # Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 935904 07/29/09 10:20 AM BRIGHT BRIGHT DOCUMENTED 02/17/00 PUMPED OVERFLOW UNAUTHORIZED 07/29/09 11:45
DISCHARGE DISCHARGE

WATERS

## Spot Inspections:

Discharge Amount:	93,800 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

07/29/09 11:39 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# KY0022411 (Cont'd) **Facility ID** MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 937945 <u>Initiated</u>

08/04/09 11:25 AM

**Initiated By BRIGHT** 

**Assigned To BRIGHT** 

**Disch Status** DOCUMENTED **Event Date Problem** 02/17/00

PUMPED OVERFLOW

Result UNAUTHORIZED DISCHAGE -

Completed 08/05/09 03:10

PM

WATERS

## Spot Inspections:

Discharge Amount:	2,477,400 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 11:19 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 18483 3015 BOAIRES LN SOUTH FORK CATCH BASIN

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 935930 07/29/09 10:28 AM BRIGHT BRIGHT DOCUMENTED 02/17/00 PUMPED OVERFLOW UNAUTHORIZED 07/29/09 11:35
DISCHARGE DISCHARGE

WATERS

## Spot Inspections:

Discharge Amount:	69,600 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

07/29/09 12:04 PM	DISPUB	MSD PERSONNEL PLACED SIGNS
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**BRIGHT** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 937951

<u>Initiated</u> 08/04/09 10:13 AM

**Initiated By BRIGHT** 

**Assigned To Disch Status** DOCUMENTED

**Event Date** 02/17/00

**Problem** PUMPED OVERFLOW Result UNAUTHORIZED Completed 08/05/09 02:28

AM

DISCHAGE -WATERS

## Spot Inspections:

Discharge Amount:	1,869,500 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 11:19 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 18505 3540 RAMONA AVE SOUTH FORK CATCH BASIN

BEARGRASS CREEK

Activity Code / Description WO # Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 937974 08/04/09 11:16 AM BRIGHT BRIGHT DOCUMENTED 02/17/00 PUMPED OVERFLOW UNAUTHORIZED 08/04/09 08:26

DISCHAGE - PM

WATERS

## Spot Inspections:

DISCHARGE

Discharge Amount:	644,600 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 11:19 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 18595 3101 WEDGEWOOD WAY WEDGEWOOD DITCH DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 937975 08/04/09 11:00 AM **BRIGHT BRIGHT** DOCUMENTED 02/17/00 PUMPED OVERFLOW **UNAUTHORIZED** 08/05/09 02:30 РМ DISCHARGE DISCHAGE -WATERS

### Spot Inspections:

Discharge Amount:	2,093,300 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 11:20 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 18654 4912 DELAWARE DR SOUTH FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938728 08/04/09 02:54 PM FIELDS GRIFFITH FORCE 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 08:05

DISCHARGE MAJEURE CAPACITY DISCHAGE - PM

WATERS

## Spot Inspections:

Discharge Amount:	22,680 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941706
Control Zone:	TEMPORARY SIGNS, BARRICADES, CAUTION TAPE WERE PLACE AROUND THE IMPACT AREA
Impact:	LIGHT IMPACT FROM SOLIDS OBSERVED DUE TO MAGNITUDE OF THE STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/05/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 06:30 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 20155 3001 DERINGTON CT GOOSE CREEK STREAM

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935721 07/29/09 07:30 AM SINGLETON LARUE DOCUMENTED 07/29/09 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 09:45 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	2,625 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED AROUND AFFECTED AREA
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

07/29/09 07:30 AM	DISPUB	Temporary signs posted around affected area
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022411 (Cont'd)

Facility ID MSD0278

Water Quality Treatement Center MORRIS FORMAN

JR

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT

DISCHARGE

<u>WO #</u> 937917 Initiated 08/04/09 09:50 AM Initiated By ELDER Assigned To Disch Status
RHEINLAENDER DOCUMENTED

Event Date Problem
07/29/09 LACK OF SYSTEM
CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

Completed 08/05/09 01:30

AM

WATERS

Spot Inspections:

Discharge Amount:	5,500 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS IN AREA
Impact:	SEWAGE ON GROUND
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIRS.

08/04/09 10:13 AM	DISPUB	TEMPORARY SIGNS IN AREA
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 21061 4432 CORDOVA RD UPPER SINKING FORK CATCH BASIN

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 935929 07/29/09 09:30 AM **BRIGHT BRIGHT** DOCUMENTED 02/17/00 PUMPED OVERFLOW **UNAUTHORIZED** 07/29/09 04:20 DISCHARGE DISCHAGE -PMWATERS

### Spot Inspections:

Discharge Amount:	436,700 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

07/29/09 11:57 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 937940 <u>Initiated</u>

08/04/09 10:40 AM

Initiated By **BRIGHT** 

**Assigned To Disch Status BRIGHT** DOCUMENTED **Event Date Problem** 02/17/00

Result PUMPED OVERFLOW

UNAUTHORIZED

Completed Condition 08/05/09 11:45

DISCHAGE -PM

WATERS

## Spot Inspections:

Discharge Amount:	2,641,000 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 11:18 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 21089 207 BRUNSWICK RD UPPER SINKING FORK CATCH BASIN

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 935931 07/29/09 10:30 AM **BRIGHT BRIGHT** DOCUMENTED 02/17/00 PUMPED OVERFLOW **UNAUTHORIZED** 07/29/09 02:17 DISCHARGE DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	401,600 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

07/29/09 12:05 PM	DISPUB	MSD PERSONNEL PLACED SIGNS
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022411 (Cont'd) Facility ID MSD0278

Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT

<u>WO #</u> 937955 Initiated 08/04/09 10:22 AM Initiated By BRIGHT Assigned To BRIGHT Disch Status

DOCUMENTED

Event Date Problem
02/17/00 PUMPED OVERFLOW

Result
UNAUTHORIZED
DISCHAGE -

WATERS

Completed 08/05/09 06:45

AM

DISCHARGE

Spot Inspections:

Discharge Amount:	1,629,100 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 11:20 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 21101 4302 SHELBYVILLE RD UPPER SINKING FORK DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 935928 07/29/09 09:50 AM **BRIGHT BRIGHT** DOCUMENTED 02/17/00 PUMPED OVERFLOW **UNAUTHORIZED** 07/29/09 07:23 DISCHARGE DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	761,500 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

07/29/09 11:57 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID KY0022411 (Cont'd) MSD0278 Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

<u>WO #</u> 937882

<u>li</u>

<u>Initiated</u> 08/04/09 09:35 AM Initiated By BRIGHT Assigned To BRIGHT Disch Status

DOCUMENTED

Event Date Problem
02/17/00 PUMPED OVERFLOW

Result
UNAUTHORIZED
DISCHAGE -

Completed 08/06/09 01:09

AGE - PM

WATERS

## Spot Inspections:

Discharge Amount:	5,319,800 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 09:53 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 21153 4522 CORDOVA RD UPPER SINKING FORK CATCH BASIN

WO # Activity Code / Description Initiated Initiated By Assigned To Disch Status Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 935926 07/29/09 10:02 AM **BRIGHT BRIGHT** DOCUMENTED 02/17/00 PUMPED OVERFLOW **UNAUTHORIZED** 07/29/09 02:04 DISCHARGE DISCHAGE -PMWATERS

### Spot Inspections:

Discharge Amount:	428,200 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

07/29/09 11:58 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# KY0022411 (Cont'd)

**Facility ID** MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 937906

<u>Initiated</u> 08/04/09 10:00 AM **Initiated By BRIGHT** 

**Assigned To BRIGHT** 

**Disch Status** DOCUMENTED **Event Date Problem** 02/17/00

PUMPED OVERFLOW

Result UNAUTHORIZED DISCHAGE -

Completed 08/05/09 09:05

PM

WATERS

## Spot Inspections:

Discharge Amount:	2,974,300 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 10:04 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 21156 100 STONEHENGE DR UPPER SINKING FORK CATCH BASIN

WO # Activity Code / Description Initiated Initiated By Assigned To Disch Status Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 935918 07/29/09 09:36 AM **BRIGHT BRIGHT** DOCUMENTED 02/17/00 PUMPED OVERFLOW **UNAUTHORIZED** 07/29/09 04:15 DISCHARGE DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	652,800 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

07/29/09 11:57 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES #
KY0022411 (Cont'd)

Facility ID MSD0278

Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

<u>WO #</u> 937942 Initiated 08/04/09 10:25 AM

ΔΜ

Initiated By BRIGHT Assigned To BRIGHT Disch Status

DOCUMENTED

Event Date Problem
02/17/00 PUMPED OVERFLOW

Result UNAUTHORIZED Completed 08/05/09 08:45

DISCHAGE - PM

WATERS

## Spot Inspections:

Discharge Amount:	3,630,400 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 11:18 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 21506 901 FALGATE CT MUDDY FORK CATCH BASIN

BEARGRASS CREEK

Activity Code / Description WO # Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 937980 08/04/09 11:45 AM BRIGHT BRIGHT FORCE 08/04/09 PUMPED OVERFLOW UNAUTHORIZED 08/05/09 11:16
DISCHARGE MAJEURE DISCHAGE - PM

MAJEURE DISCHAGE -WATERS

## Spot Inspections:

Discharge Amount:	2,425,900 GAL
Cause:	SET PUMPS TO ALLEVIATE PROPERTY DAMAGE AND FLOODING DURING A SIGNIFICANT RAIN EVENT
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE OVERFLOW SITE ONCE THE RAIN SUBSIDED
Control Zone:	MSD PERSONNEL SET OUT BARRICADES AND TEMPORARY SIGNS ON THE PUMP
Impact:	SEWAGE VISIBLE AROUND PUMPED DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 11:20 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 21628-W 7404 ARROWWOOD RD GOOSE CREEK DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935821 07/29/09 09:25 AM SINGLETON COOMER DOCUMENTED 12/16/00 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 09:35 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

## Spot Inspections:

Discharge Amount:	250 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA ALSO RAKED & SPREAD LIME
Control Zone:	TEMPORARY SIGNS POSTED AROUND AFFECTED AREA
Impact:	SEWAGE & PERSONAL HYGIENE PRODUCTS OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR.

07/29/09 09:25 AM	DISPUB	Temporary signs posted around effected area
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISDW: DRY WEATHER DISCHARGE

**WO**# 937196 <u>Initiated</u>

07/31/09 09:50 AM

Initiated By SINGLETON

**Assigned To** LARUE

**Disch Status** DOCUMENTED **Event Date Problem** MECHANICAL FAILURE 12/16/00

Result UNAUTHORIZED Completed 07/31/09 11:00

**DISCHAGE -**AM

WATERS

Spot Inspections:

Discharge Amount:	3,500 GAL
Cause:	PUMP FAIL DUE TO COUPLING COMING OFF
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS WERE POSTED
Impact:	SEWAGE & PERSONAL HYGIENE PRODUCTS OBSERVED
Repair:	MAINTENACE PERSONNEL REPAIRED THE COUPLING

07/31/09 11:00 AM	М	DISPUB	Temporary signs were posted
07/31/09 01:00 PM	М	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID
KY0022411 (Cont'd) MSD0278

Water Quality Treatement Center MORRIS FORMAN

JR

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT

DISCHARGE

<u>WO #</u> 937911 Initiated 08/04/09 10:01 AM Initiated By ELDER Assigned To Disch Status
RHEINLAENDER DOCUMENTED

**Event Date** Problem
12/16/00 LACK OF SYSTEM

CAPACITY

<u>Result</u> UNAUTHORIZED DISCHAGE - Completed 08/05/09 02:00 AM

WATERS

## Spot Inspections:

Discharge Amount:	25,000 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	PERMANENT SIGNS IN AREA
Impact:	SEWAGE ON GROUND
Repair:	THIS SITE WAS FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

08/04/09 10:09 AM	DISPUB	PERMANENT SIGNS IN AREA
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 24152-W 3733 CANOE LN MUDDY FORK STREAM

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935808 07/29/09 08:30 AM SINGLETON KAISER DOCUMENTED 12/16/07 LACK OF SYSTEM UNAUTHORIZED 07/29/09 10:20

DISCHARGE CAPACITY DISCHAGE - AM

WATERS

Spot Inspections:

Discharge Amount:	6,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED AROUND AFFECTED AREA
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

07/29/09 08:30 AM	DISPUB	Temporary signs posted around affected area
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description WO**# <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition LACK OF SYSTEM 08/05/09 01:00 937997 08/04/09 10:26 AM **ELDER** RHEINLAENDER DOCUMENTED 12/16/07 UNAUTHORIZED DISREV: RAIN EVENT DISCHARGE JR CAPACITY DISCHAGE -AM WATERS

## Spot Inspections:

Discharge Amount:	15,400 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS WERE POSTED
Impact:	SEWAGE ON THE GROUND
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.

08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 10:46 AM	DISPUB	TEMPORARY SIGNS WERE POSTED
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 24738 10204 GARLANREID PL MIDDLE FORK DITCH

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition DISDW: DRY WEATHER 953196 09/08/09 12:30 PM RICHARDSON RICHARDSON REPAIRED -09/08/09 **OBSTRUCTION-NOT** UNAUTHORIZED 09/08/09 03:38 MAIN

DISCHARGE ISSUE GREASE / ROOTS DISCHAGE - PN
RESOLVED WATERS

## Spot Inspections:

Discharge Amount:	400 GAL
Cause:	OBSTRUCTION IN MSD MAIN SEWER
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	MSD ADVISED CUSTOMER TO AVOID CONTACT WITH SEWAGE; POSTED DISCHARGE SIGNS
Impact:	SEWAGE DISCHARGING FROM THE MSD MANHOLE INTO THE CREEK
Repair:	WORK ORDERS 953204, 943207 AND 953208 - ROOTCUT AND FLUSHED AND OPEN THE MAIN SEWER

09/08/09 12:30 PM	DISPUB	ADVISED CUSTOMERS POSTED DISCHARGE SIGNS AND DOORCARDS
09/29/09 08:36 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 25012 4641 BEAVER RD UPPER SINKING FORK DITCH

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938437 08/04/09 02:42 PM **FRENCH GRIFFITH** DOCUMENTED 05/28/04 LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 09:24 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	81,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941858
Control Zone:	PERMANENT SIGNS POSTED AT THIS LOCATION
Impact:	SEWER WATER OBSERVED OVERFLOWING MANHOLE, NO SOLIDS OR DEBRIS OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 10:55 AM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

3703 ALCONA LN **GROUND** 25676 SMH Sewer Manhole SOUTH FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938158 08/04/09 11:23 AM JOHNSON JR **GRIFFITH** DOCUMENTED 02/18/00 LACK OF SYSTEM UNAUTHORIZED 08/04/09 08:37

DISCHARGE CAPACITY DISCHAGE -PM

**WATERS** 

Spot Inspections:

Discharge Amount:	110,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941821
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACED AROUND AREA
Impact:	DUE TO MAGNITUDE OF STORM LIGHT SOLIDS AND DEBRIS WAS OBSERVED
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 10:12 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 26650 3715 BRIARBRIDGE LN SOUTH FORK STREAM

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938550 08/04/09 11:30 AM JOHNSON JR GRIFFITH DOCUMENTED 03/19/08 LACK OF SYSTEM UNAUTHORIZED 08/04/09 02:28

DISCHARGE CAPACITY DISCHAGE - PM WATERS

### Spot Inspections:

Discharge Amount:	54,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP REQUIRED
Control Zone:	TEMPORARY SIGNS AND CONES WERE PLACED AROUND IMPACTED AREA
Impact:	NO IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 08:05 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 26752 3317 BROWNSBORO RD MUDDY FORK DITCH

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 936225 07/29/09 06:45 AM SIVADO **GRIFFITH** DOCUMENTED 04/04/08 LACK OF SYSTEM UNAUTHORIZED 07/30/09 01:40

DISCHARGE CAPACITY DISCHAGE - PM

WATERS

# Spot Inspections:

Discharge Amount:	260,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	CAUTION TAPE AND BARRICADES WERE PLACE AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS DUE TO MAGNITUDE OF STORM WAS OBSERVED
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 06:45 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
07/29/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID KY0022411 (Cont'd) MSD0278 Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

<u>WO #</u> 938168 Initiated 08/04/09 10:33 AM Initiated By FRENCH Assigned To Disch Status
GRIFFITH DOCUMENTED

04/04/08

ate <u>Problem</u> 08 LACK OF SYSTEM CAPACITY Result UNAUTHORIZED DISCHAGE -

WATERS

Completed 08/06/09 09:38

AM

# Spot Inspections:

Discharge Amount:	340,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941838
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS PLACE AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 10:17 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 27005 1012 ALTA CIR MIDDLE FORK GROUND

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935997 07/29/09 11:15 AM SIVADO **GRIFFITH** DOCUMENTED 09/02/03 LACK OF SYSTEM UNAUTHORIZED 07/29/09 03:00

DISCHARGE

CAPACITY

DISCHAGE - PM

WATERS

Spot Inspections:

Discharge Amount:	240,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP AT THIS LOCATION
Control Zone:	PERMANENT AND TEMPORARY SIGNS ARE POSTED AT THIS LOCATION
Impact:	LIGHT DEBRIS FOUND AROUND MANHOLE
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 11:15 AM	DISPUB	PUBLIC HAS BEEN NOTIFIED THROUGH PERMANENT AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGED CONTENT
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

<u>WO #</u> 938623

<u>In</u>

Initiated 08/04/09 01:15 PM

Initiated By FIELDS Assigned To GRIFFITH Disch Status

DOCUMENTED

Event Date Problem
09/02/03 LACK OF

B LACK OF SYSTEM
CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

**Completed** 08/05/09 12:30

08/05/09 12: PM

EDC

WATERS

# Spot Inspections:

Discharge Amount:	270,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #940927
Control Zone:	PERMANENT SIGNS AND BARRICADES WERE PLACED AROUND DISCHARGE AREA
Impact:	VERY LITTLE IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 08:51 PM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

WO # 956925

<u>Initiated</u>

Initiated By 09/21/09 01:45 AM **FIELDS** 

**Assigned To GRIFFITH** 

**Disch Status** DOCUMENTED Event Date 09/02/03

**Problem** LACK OF SYSTEM CAPACITY

Result UNAUTHORIZED DISCHAGE -

WATERS

Completed 09/21/09 10:48

AM

Spot Inspections:

Discharge Amount:	520,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #958079
Control Zone:	BARRICADES, CAUTION TAPE, AND TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	LIGHT SOLIDS AND DEBRIS WERE OBSERVED AROUND DISCHARGE SITE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 02:51 PM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
09/21/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 28176B 1800 NIGHTINGALE RD SOUTH FORK GROUND

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 936735 07/30/09 06:15 PM MARKS JR WRIGHT REPAIRED -07/30/09 LACK OF SYSTEM UNAUTHORIZED 07/30/09 07:30

DISCHARGE ISSUE CAPACITY DISCHAGE - PM

RESOLVED WATERS

### Spot Inspections:

Discharge Amount:	2,000 GAL
Cause:	SURCHARGE OF A GRAVITY INFLUENT LINE DURING RETURN TO NORMAL OPERATION AFTER POWER FAILURE
Clean Up:	MSD CONTRACTOR CLEANED AND SANITIZED AREA
Control Zone:	TEMPORARY SIGNS POSTED AND PERMANENT SIGNS POSTED
Impact:	SEWAGE AND SOME LIGHT DEBRIS NOTED
Repair:	MONITOR STATION FOR FUTURE SURCHARGES DURING RAIN EVENTS

07/30/09 08:12 PM	DISPUB	msd notified public with web site and temporary signs
07/30/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

3420 FOUNTAIN DR **GROUND** 30680 SMH Sewer Manhole SOUTH FORK

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 938510 08/04/09 12:55 PM JOHNSON JR **GRIFFITH** DOCUMENTED 05/30/04 LACK OF SYSTEM UNAUTHORIZED 08/04/09 08:13 DISCHARGE

CAPACITY

DISCHAGE -PM

**WATERS** 

# Spot Inspections:

Discharge Amount:	150,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP REQUIRED
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	NO IMPACT OBSERVED DUE MAGNITUDE OF STORM
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 07:16 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

3401 FOUNTAIN DR **GROUND** 30681 SMH Sewer Manhole SOUTH FORK

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 938502 08/04/09 12:50 PM **GRIFFITH** DOCUMENTED 10/18/04 LACK OF SYSTEM UNAUTHORIZED 08/04/09 08:10 JOHNSON JR DISCHARGE CAPACITY DISCHAGE -PM

# **WATERS**

# Spot Inspections:

Discharge Amount:	72,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941814
Control Zone:	DOOR HANGERS AND TEMP SIGNS WERE PLACE AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS OBSERVED NEAR DISCHARGE
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 03:09 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 36763 3530 FINCASTLE RD CAMP TAYLOR DITCH GROUND

WO # Activity Code / Description **Initiated Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935744 07/29/09 07:35 AM MITCHELL **GRIFFITH** DOCUMENTED 07/29/09 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 09:50 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

# Spot Inspections:

Discharge Amount:	1,800 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS HAVE BEEN PLACE AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS OBSERVED AROUND DISCHARGE SITE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SERWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 07:35 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



WATERS



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center** Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Activity Code / Description WO**# <u>Initiated</u> **Initiated By Assigned To Disch Status Event Date Problem** Result Completed Condition **GRIFFITH** LACK OF SYSTEM 08/04/09 06:37 938190 08/04/09 11:07 AM MITCHELL DOCUMENTED 07/29/09 UNAUTHORIZED DISREV: RAIN EVENT CAPACITY DISCHAGE -PM

DISCHARGE

# Spot Inspections:

Discharge Amount:	77,760 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941739
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS HAVE BEEN PLACED AROUND IMPACTED AREA
Impact:	LIGHT SOLIDS OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 11:18 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 40870 2120 INDIAN HILLS TRL MUDDY FORK DITCH

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 957066 09/20/09 11:10 PM SINGLETON RHEINLAENDE DOCUMENTED 09/27/02 LACK OF SYSTEM UNAUTHORIZED 09/21/09 02:28

DISCHARGE R JR CAPACITY DISCHAGE - AM

WATERS

Spot Inspections:

Discharge Amount:	39,600 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN THE AREA.
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS PLACED AROUND THE AFFECTED AREA
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/20/09 11:10 PM	DISPUB	Temporary signs placed around the affected area





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

**GROUND** 40872 2105 INDIAN HILLS TRL SMH Sewer Manhole MUDDY FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 935714 07/29/09 08:00 AM SINGLETON CISSELL DOCUMENTED 12/15/07 LACK OF SYSTEM UNAUTHORIZED 07/29/09 08:00 DISCHARGE PM

CAPACITY DISCHAGE -

**WATERS** 

# Spot Inspections:

Discharge Amount:	216,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED AROUND AFFECTED AREA
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR AND EVALUATE FOR REPAIRS

07/29/09 08:00 AM	DISPUB	Temporary signs posted around affected area
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

WATERS

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description WO**# <u>Initiated</u> **Initiated By Assigned To Disch Status** Event Date **Problem** Result Completed Condition LACK OF SYSTEM 936751 07/31/09 01:00 AM MARKS JR DUNN JR DOCUMENTED 12/15/07 UNAUTHORIZED 07/31/09 01:30 DISREV: RAIN EVENT DISCHARGE CAPACITY DISCHAGE -AM

Spot Inspections:

Discharge Amount:	225,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	SET UP TEMPORARY SIGNS AND BARRICADES
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MOITORED & EVALUATED FOR REPAIR

07/31/09 02:22 AM	DISPUB	msd notified public with its web site and temporary signs
07/31/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/31/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

WATERS

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description WO**# <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition LACK OF SYSTEM 08/04/09 05:00 938232 08/04/09 10:00 AM **ELDER** DUNN JR DOCUMENTED 12/15/07 UNAUTHORIZED DISREV: RAIN EVENT DISCHARGE CAPACITY DISCHAGE -PM

# Spot Inspections:

Discharge Amount:	9,999 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD PERSONEL CLEANED AND SANITIZED THE AREA
Control Zone:	ROAD BARRICADES ON SITE
Impact:	SEWAGE ON THE GROUND
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN

08/04/09 01:15 PM	DISPUB	ROAD BARRICADES, & TEMPORARY SIGNS PLACED
08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 41374 300 MOCKINGBIRD VALLEY RD MUDDY FORK DITCH

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938629 08/04/09 05:58 PM **FIELDS GRIFFITH** DOCUMENTED 03/27/08 LACK OF SYSTEM UNAUTHORIZED 08/06/09 09:40

DISCHARGE CAPACITY DISCHAGE - AM

WATERS

# Spot Inspections:

Discharge Amount:	240,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941863
Control Zone:	TEMPORARY SIGNS AND BARRICADES WERE PLACED AROUND DISCHARGE AREA
Impact:	LIGHT SOLIDS AND DEBRIS OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 08:58 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

3343 BROWNSBORO RD **GROUND** 41416 SMH Sewer Manhole MUDDY FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 939462 08/04/09 12:30 PM **FRENCH FRENCH FORCE** 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 03:00 DISCHARGE **MAJEURE** PM

CAPACITY DISCHAGE -

**WATERS** 

# Spot Inspections:

Discharge Amount:	3,750 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN
Clean Up:	CLEAN UP WORK ORDER #939604 HAS BEEN CREATED FOR I&FP TO CLEAN THIS MANHOLE.
Control Zone:	NO CONTROL ZONE SET UP; PERMANENT OVERFLOW SIGNS LOCATED ALONG STREAM
Impact:	SOME SOLIDS AND DEBRIS OBSERVED AT TIME OF OVERFLOW
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP

08/05/09 03:52 PM	DISPUB	NO PUBLIC NOTIFICATION ACTIONS WERE TAKEN; PERMANENT OVERFLOW WARNING SIGNS POSTED DOWNSTREAM
08/05/09 03:58 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 44396 1635 BELMAR DR MUDDY FORK GROUND

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935754 07/29/09 07:26 AM MITCHELL **GRIFFITH** DOCUMENTED 04/04/08 LACK OF SYSTEM UNAUTHORIZED 07/29/09 09:30

DISCHARGE CAPACITY DISCHAGE - AM

WATERS

# Spot Inspections:

Discharge Amount:	15,000 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN
Clean Up:	CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS HAVE BEEN PLACED AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS OBSERVED AROUND DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE SANITARY DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 07:26 AM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS AND DOOR HANGERS TO AVOID CONTACT WITH DISCHARGE CONTENT
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition

Region

Completed



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER

OHIO RIVER WEST

Result

Activity Code / Description
DISREV: RAIN EVENT
938195
08/04/09
10:35 AM
MITCHELL
GRIFFITH
DOCUMENTED
04/04/08
LACK OF

DISCHARGE

LACK OF SYSTEM UNAUTHORIZED 08/04/09 06:10 CAPACITY DISCHAGE - PM

TERS

WATERS

# Spot Inspections:

Discharge Amount:	144,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941742
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS PLACED AROUND IMPACTED AREA
Impact:	LIGHT SOLIDS OBSERVED DUE TO THE MAGNITUDE OF THE STORM
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 11:26 AM	DISPUB	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISHARGED CONTENT
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 45443 4600 SHELBYVILLE RD MIDDLE FORK STREAM

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 939785 08/04/09 06:29 PM LEVITZ LEVITZ FORCE 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 10:00

DISCHARGE MAJEURE CAPACITY DISCHAGE - PM WATERS

# Spot Inspections:

Discharge Amount:	24,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	NONE NEEDED DUE TO MAGNITUDE OF RAIN EVENT
Control Zone:	NO CONTROL ZONE SETUP
Impact:	SEWER WATER OBSERVED OVERFLOWING FROM MANHOLE. NO SOLIDS OR DEBRIS OBSERVED AT TIME OF OVERFLOW.
Repair:	SOLUTION IS INCLUDED IN THE ISSDP

08/06/09 11:05 AM	DISPUB	PERMANENT SIGNS PLACED IN THE AREA
08/06/09 01:10 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

1132 ROSTREVOR CIR **GROUND** 45835 SMH Sewer Manhole MIDDLE FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 936000 07/29/09 11:20 AM SIVADO **GRIFFITH** DOCUMENTED 09/02/03 LACK OF SYSTEM UNAUTHORIZED 07/29/09 03:10 DISCHARGE CAPACITY DISCHAGE -PM

**WATERS** 

Spot Inspections:

Discharge Amount:	240,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP
Control Zone:	SITE IS MARKED WITH PERMANENT SIGNS
Impact:	NO IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 12:41 PM	DISPUB	PUBLIC IS NOTIFIED THROUGH PERMANENT SIGNS TO AVOID CONTACT WITH DISCHARGED CONTENT AT THIS LOCATION
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT

**WO**# 938627

<u>Initiated</u> 08/04/09 01:15 PM Initiated By **FIELDS** 

**Assigned To GRIFFITH** 

**Disch Status** DOCUMENTED Event Date **Problem** 09/02/03

CAPACITY

Result LACK OF SYSTEM UNAUTHORIZED DISCHAGE -

WATERS

Completed 08/05/09 03:42 PM

DISCHARGE

Spot Inspections:

Discharge Amount:	320,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #940905
Control Zone:	PERMANENT SIGNS AND BARRICADES WERE PLACED AROUND DISCHARGE AREA
Impact:	LIGHT DEBRIS AND SOLIDS OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 08:55 PM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT

**WO**# 956923 <u>Initiated</u>

09/21/09 01:43 AM

Initiated By **FIELDS** 

**Assigned To Disch Status GRIFFITH** DOCUMENTED Event Date 09/02/03

**Problem** LACK OF SYSTEM CAPACITY

Result UNAUTHORIZED DISCHAGE -

WATERS

Completed 09/21/09 10:46

AM

DISCHARGE

# Spot Inspections:

Discharge Amount:	490,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #958074
Control Zone:	BARRICADES AND CAUTION TAPE WERE PLACED AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS AND SOLIDS WERE OBSERVED AROUND DISCHARGE AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

09/21/09 11:06 AM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 47583 202 OXMOOR LN MIDDLE FORK STREAM

BEARGRASS CREEK

Activity Code / Description WO Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938564 08/04/09 03:37 PM FIELDS GRIFFITH DOCUMENTED 02/06/08 LACK OF SYSTEM UNAUTHORIZED 08/05/09 09:10

DISREV: RAIN EVENT 938564 08/04/09 03:37 PM FIELDS GRIFFITH DOCUMENTED 02/06/08 LACK OF SYSTEM UNAUTHORIZED 08/05/09 09:
DISCHARGE CAPACITY DISCHAGE - AM

CHARGE CAPACITY DISCHAGE - WATERS

# Spot Inspections:

Discharge Amount:	54,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP NEEDED
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACED AROUND DISCHARGE AREA
Impact:	NO IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 08:26 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

8021 CHRISTIAN CT **GROUND** 47593 SMH Sewer Manhole MIDDLE FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 935854 07/29/09 09:35 AM SIVADO **GRIFFITH** DOCUMENTED 03/19/08 LACK OF SYSTEM UNAUTHORIZED 07/29/09 02:30 DISCHARGE CAPACITY DISCHAGE -PM

**WATERS** 

# Spot Inspections:

Discharge Amount:	240,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	CAUTION TAPE AND BARRICADES WERE SET UP AT THIS LOCATION
Impact:	LIGHT SOLIDS AND DEBRIS OBSERVED AROUND MANHOLE
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 09:35 AM	DISPUB	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS, TEMPORARY SIGNS, AND BARRICADES
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

WO # 938555 <u>Initiated</u>

08/04/09 04:03 PM

Initiated By **FIELDS** 

**Assigned To GRIFFITH** 

**Disch Status** DOCUMENTED Event Date **Problem** LACK OF SYSTEM 03/19/08

CAPACITY

Result UNAUTHORIZED DISCHAGE -

Completed 08/04/09 09:33 PM

WATERS

# Spot Inspections:

Discharge Amount:	111,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941852
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	VERY LITTLE IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 08:10 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

47604 8016 SHELBYVILLE RD **GROUND** SMH Sewer Manhole MIDDLE FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 935861 07/29/09 09:45 AM SIVADO **GRIFFITH** DOCUMENTED 03/19/08 LACK OF SYSTEM UNAUTHORIZED 07/29/09 02:30 DISCHARGE PM

CAPACITY DISCHAGE -

**WATERS** 

# Spot Inspections:

Discharge Amount:	34,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	BARRICADES AND CAUTION TAPE HAVE BEEN PLACED AROUND SITE
Impact:	LIGHT SOLIDS AND DEBRIS ARE OBSERVED AROUND DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 09:45 AM	DISPUB	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS, TEMPORARY SIGNS, AND BARRICADES TO AVOID CONTACT WITH DISCHARGED CONTENT AT THIS LOCATION
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 48885 2201 GERALD CT SOUTH FORK STREAM

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938666 08/04/09 07:23 PM MITCHELL GRIFFITH FORCE 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/05/09 04:45

DISCHARGE MAJEURE CAPACITY DISCHAGE - AM WATERS

# Spot Inspections:

Discharge Amount:	648,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #940882 CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS WERE PLACED AROUND DISCHARGE AREA
Impact:	VERY LITTLE IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 09:30 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMORARY SIGNS AND DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 48897 3600 DOWNING WAY SOUTH FORK STREAM

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 939977 08/05/09 06:00 PM SINGLETON WRIGHT DOCUMENTED 04/04/08 LACK OF SYSTEM UNAUTHORIZED 08/06/09 01:40

DISCHARGE CAPACITY DISCHAGE - PM

WATERS

#### Spot Inspections:

Discharge Amount:	5,900 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP

08/05/09 06:00 PM	DISPUB	TEMPORARY SIGNS POSTED
08/07/09 01:09 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

3603 BARDSTOWN RD **GROUND** 49672 SMH Sewer Manhole SOUTH FORK

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 938533 08/04/09 01:08 PM JOHNSON JR **GRIFFITH** DOCUMENTED 12/15/07 LACK OF SYSTEM UNAUTHORIZED 08/04/09 09:40 DISCHARGE

CAPACITY DISCHAGE -PM

**WATERS** 

# Spot Inspections:

Discharge Amount:	120,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941841
Control Zone:	TEMPORARY SIGNS AND BARRICADES WERE PLACED AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 07:48 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 49673 3623 BARDSTOWN RD SOUTH FORK CATCH BASIN

BEARGRASS CREEK

Activity Code / Description WO # Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

 DISREV: RAIN EVENT
 938529
 08/04/09 01:05 PM
 JOHNSON JR
 GRIFFITH
 DOCUMENTED
 04/04/08
 LACK OF SYSTEM
 UNAUTHORIZED
 08/04/09 08:18

DISCHARGE CAPACITY DISCHAGE - PM WATERS

# Spot Inspections:

Discharge Amount:	120,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP REQUIRED
Control Zone:	DOOR HANGERS, TEMPORARY SIGNS, AND CONES PLACE AROUND IMPACTED AREA
Impact:	NO IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 07:44 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 51160 3305 INDIAN CREEK CT SOUTH FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938466 08/04/09 12:07 PM MITCHELL GRIFFITH DOCUMENTED 04/04/08 LACK OF SYSTEM UNAUTHORIZED 08/05/09 06:02

DISCHARGE CAPACITY DISCHAGE - AM

WATERS

Spot Inspections:

Discharge Amount:	351,360 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941627
Control Zone:	DOOR HANGERS AND BARRICADES PLACED AT LOCATION
Impact:	LITTLE DEBRIS OBSERVED AROUND IMPACTED AREA
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 02:46 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMP SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

4200 LEE AVE **GROUND** 51301 SMH Sewer Manhole SOUTH FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 938748 08/04/09 10:27 AM MITCHELL **GRIFFITH** DOCUMENTED 09/20/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 05:39 DISCHARGE PM

CAPACITY DISCHAGE -

**WATERS** 

# Spot Inspections:

Discharge Amount:	144,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941616
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS WERE PLACED AROUND DISCHARGE AREA
Impact:	VERY LITTLE IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION WAS NOTICED DURING CURRENT RAIN EVENT AND WILL BE MONITORED FOR REPAIR

08/05/09 01:37 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 09:35 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Region

**WEST** 

WATERS



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER

**Activity Code / Description** WO # <u>Initiated</u> **Initiated By Assigned To Disch Status** Event Date **Problem** Result Completed Condition **GRIFFITH** LACK OF SYSTEM 957877 09/20/09 09:10 PM MITCHELL DOCUMENTED 09/20/09 UNAUTHORIZED 09/21/09 12:31 DISREV: RAIN EVENT CAPACITY DISCHARGE DISCHAGE -AM

# Spot Inspections:

Discharge Amount:	21,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #958038
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND IMPACTED AREA
Impact:	LIGHT SOLIDS AND DEBRIS WERE OBSERVED AROUND DISCHARGE SITE
Repair:	THIS IS A NEW LOCATION FOUND DURING THE RAIN EVENT OF AUG 4, 2009. LOCATION WILL BE MONITORED AND INSPECTED FOR REPAIR

09/21/09 10:32 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 51594 1418 TREVILIAN WAY SOUTH FORK DITCH

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935823 07/29/09 06:50 AM MITCHELL **GRIFFITH** DOCUMENTED 09/12/06 LACK OF SYSTEM UNAUTHORIZED 07/29/09 10:00

DISCHARGE CAPACITY DISCHAGE - AM

WATERS

# Spot Inspections:

Discharge Amount:	27,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	TEMPORARY SIGNS AND DOOR HANGERS WERE POSTED AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS OBSERVED AROUND IMPACTED AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 06:50 AM	DISPUB	PUBLIC HAS BEEN NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID CONTACT WITH DISCHARGED CONTENT
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

WATERS

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center** Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Activity Code / Description WO**# <u>Initiated</u> **Initiated By Assigned To Disch Status Event Date Problem** Result Completed Condition **GRIFFITH** LACK OF SYSTEM 08/04/09 09:51 938492 08/04/09 02:28 AM MITCHELL DOCUMENTED 09/12/06 UNAUTHORIZED DISREV: RAIN EVENT CAPACITY DISCHAGE -PM

DISCHARGE

# Spot Inspections:

Discharge Amount:	42,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941800
Control Zone:	DOOR HANGERS AND TEMP SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS OBSERVED NEAR DISCHARGE SITE
Repair:	THIS LOCATION IS IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 02:56 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMP SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGE
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID Water Quality Treatement Center** KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT

DISCHARGE

**WO**# 956864

<u>Initiated</u> 09/20/09 10:00 PM **Initiated By** MITCHELL

**Assigned To GRIFFITH** 

**Disch Status** DOCUMENTED **Event Date Problem** 09/12/06

Result LACK OF SYSTEM UNAUTHORIZED CAPACITY DISCHAGE -

Completed 09/21/09 12:44

AM

WATERS

# Spot Inspections:

Discharge Amount:	18,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER # 957945
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND IMPACTED AREA
Impact:	LIGHT SOLIDS AND DEBRIS WERE OBSERVED AROUND DISCHARGE SITE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

09/20/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 09:28 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
09/20/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 65633 4640 BARBOUR LN LITTLE GOOSE CREEK STREAM

WO # Activity Code / Description **Initiated Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 936045 07/29/09 01:10 PM MARKS JR LARUE DOCUMENTED 04/04/08 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 04:35 DISCHARGE **CAPACITY** DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	10,250 GAL
Cause:	RAIN EVENT CAUSED DISCHARGE
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

07/29/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 PM	DISPUB	Temporary signs posted
07/29/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Region

**WEST** 



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

WATERS

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER

**Activity Code / Description WO**# <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition LACK OF SYSTEM 938703 08/04/09 03:40 PM **ELDER** RHEINLAENDER DOCUMENTED 04/04/08 UNAUTHORIZED 08/05/09 02:00 DISREV: RAIN EVENT DISCHARGE JR CAPACITY DISCHAGE -AM

Spot Inspections:

Discharge Amount:	102,000 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE & DEBRIS OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR.

08/05/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 03:40 PM	DISPUB	TEMPORARY SIGNS POSTED
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER

Receiving Stream of Treatment Center Region
OHIO RIVER WEST

Activity Code / Description
DISDW: DRY WEATHER
DISCHARGE

<u>WO #</u> 956729 <u>Initiated</u> 09/19/09 12:45 PM

Initiated By ELDER Assigned To BROOKS Disch Status

DOCUMENTED

Event Date Prob

e Problem ELECTRICAL

PROBLEMS AT MSD

Result
UNAUTHORIZED
DISCHAGE -

Completed 09/19/09 01:35

PM

WATERS

Spot Inspections:

Discharge Amount:	2,500 GAL
Cause:	CONTROL CIRCUIT FUSE BLOWN CAUSING SEAL WATER PUMP TO FAIL CAUSING SEWAGE PUMPS TO SHUT DOWN
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS PLACED AROUND AREA
Impact:	SEWAGE & DEBRIS ON GROUND
Repair:	L.KNOOP REPLACED FUSE & CHANGED CONTROL CIRCUIT & RETURNED PUMPS TO SERVICE, STOPPING DISCHARGE @ 13:35. ADDITIONALLY WILL CHANGE SEAL WATER PUMP

09/19/09 02:23 PM	DISPUB	Temporary signs posted around area. Notified K. Slaughter so RS would be notified & web page could be updated.
09/19/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 66349 3726 FINCASTLE RD CAMP TAYLOR DITCH GROUND

WO # Activity Code / Description **Initiated Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938775 08/04/09 10:44 AM MITCHELL **GRIFFITH** DOCUMENTED 03/04/08 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 06:20 DISCHARGE **CAPACITY** DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	77,760 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941603
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND DISHARGE AREA
Impact:	VERY LITTLE IMPACT OBSERVED DUE TO THE MAGNITUDE OF STORM
Repair:	SITE FOUND DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 10:47 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 11:22 AM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

4600 CHAMPIONS TRACE LN STREAM 72571-X SMH Sewer Manhole SOUTH FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935657 07/29/09 07:27 AM MITCHELL **GRIFFITH** DOCUMENTED 11/29/01 LACK OF SYSTEM UNAUTHORIZED 07/30/09 09:26

DISCHARGE CAPACITY DISCHAGE -AM

**WATERS** 

# Spot Inspections:

Discharge Amount:	1,829,875 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	NO CONTROL ZONE NEEDED-MSD PROPERTY
Impact:	LIGHT DEBRIS AND SOLIDS OBSERVED AROUND IMPACTED AREA
Repair:	THIS LOCATION IS IN THE ITERIM SANITARY SEWER DISCHARGE PLAN

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 07:27 AM	DISPUB	PUBLIC IS NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONATACT WITH DISCHARGED CONTENT
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 938414

<u>Initiated</u> 08/04/09 09:29 AM Initiated By GRIFFITH

**Assigned To GRIFFITH** 

**Disch Status** DOCUMENTED Event Date **Problem** 11/29/01

Result LACK OF SYSTEM CAPACITY

UNAUTHORIZED DISCHAGE -

Completed Condition 08/06/09 09:15

AM

WATERS

# Spot Inspections:

Discharge Amount:	7,278,984 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP NEEDED. REMOTE LOCATION ON MSD PROPERTY
Control Zone:	PERMANENT SIGNS IN PLACE IN AREA
Impact:	LIGHT DEBRIS OBSERVED
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 02:24 PM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DISCHARGE
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

**Activity Code / Description** DISREV: RAIN EVENT

DISCHARGE

WO # 956838

<u>Initiated</u> 09/20/09 10:09 PM Initiated By GRIFFITH

**Assigned To GRIFFITH** 

**Disch Status** DOCUMENTED Event Date **Problem** 11/29/01

LACK OF SYSTEM CAPACITY

Result Completed UNAUTHORIZED 09/21/09 06:08 DISCHAGE -

WATERS

AM

Spot Inspections:

Discharge Amount:	1,060,533 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	NONE NEEDED-SUMBERGED PIPE
Control Zone:	NONE NEEDED-MSD PROPERTY
Impact:	NONE OBSERVED-PIPE SUBMERGED
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

09/20/09 11:21 PM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
09/20/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/20/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SSL Sewer Service Line 85052D 4341 PRUITT CT SOUTH FORK GROUND

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 939120 08/04/09 12:30 PM JOHNSON JR **GRIFFITH FORCE** 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 07:57

DISCHARGE CAPACITY DISCHAGE - PM

WATERS

# Spot Inspections:

Discharge Amount:	2,400 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP REQUIRED
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND DISCHARGES AREA
Impact:	NO IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	LOCATION DISCOVERED DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 01:49 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 02:38 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SSL Sewer Service Line 85055 4345 PRUITT CT

WO # Activity Code / Description <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 939036 08/04/09 12:32 PM JOHNSON JR **GRIFFITH** LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 08:00 РМ DISCHARGE CAPACITY DISCHAGE -WATERS

## Spot Inspections:

Discharge Amount:	2,400 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941543
Control Zone:	TEMPORARY SIGNS WERE PLACED AROUND DISCHARGED AREA
Impact:	LIGHT DEBRIS OBSERVED DUE TO THE MAGNITUDE OF THE STORM
Repair:	SITE LOCATED DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 01:40 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 02:13 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SSL Sewer Service Line 85065 4307 PRUITT CT

WO # Activity Code / Description <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 939115 08/04/09 12:05 PM JOHNSON JR **GRIFFITH** LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 07:45 РМ DISCHARGE CAPACITY DISCHAGE -WATERS

## Spot Inspections:

Discharge Amount:	2,400 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP REQUIRED
Control Zone:	TEMPORARY SIGNS WERE PLACED AROUND DISCHARGED AREA
Impact:	NO IMPACT OBSERVED DUE TO THE MAGNITUDE OF STORM
Repair:	LOCATION DISCOVERED DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 01:44 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 02:35 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SSL Sewer Service Line 85075 4317 PRUITT CT

WO # Activity Code / Description <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 939048 08/04/09 12:00 PM JOHNSON JR **GRIFFITH** LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 07:50 РМ DISCHARGE CAPACITY DISCHAGE -WATERS

Spot Inspections:

Discharge Amount:	2,400 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP REQUIRED
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND DISCHARGE AREA
Impact:	NO IMPACT OBSERVED DUE TO THE MAGNITUDE OF STORM
Repair:	LOCATION DISCORVERED DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 01:55 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 02:32 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SSL Sewer Service Line 85076 4319 PRUITT CT

WO # Activity Code / Description <u>Initiated</u> Initiated By **Assigned To Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 939042 08/04/09 12:00 PM JOHNSON JR **GRIFFITH** LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 07:52 РМ DISCHARGE CAPACITY DISCHAGE -WATERS

## Spot Inspections:

Discharge Amount:	2,100 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941550
Control Zone:	TEMPORARY SIGNS WERE PLACED AROUND DISCHARGE AREA
Impact:	LIGHT DEBRIS OBSERVED AROUND IMPACTED AREA
Repair:	LOCATION DISCOVERED DUREING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 01:51 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 02:25 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

8021 CHRISTIAN CT 90700 **CATCH BASIN** SMH Sewer Manhole MIDDLE FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 935847 07/29/09 09:20 AM SIVADO **GRIFFITH** DOCUMENTED 03/19/08 LACK OF SYSTEM UNAUTHORIZED 07/29/09 02:10

DISCHARGE CAPACITY DISCHAGE -PM **WATERS** 

# Spot Inspections:

Discharge Amount:	34,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	CAUTION TAPE, BARRICADES, AND TEMPORARY SIGNS HAVE BEEN POSTED AT THIS LOCATION
Impact:	LIGHT DEBRIS OBSERVED AROUND IMPACTED AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 09:20 AM	DISPUB	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS TO AVOID CONTACT WITH DISCHARGED CONTENT
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to SMH Sewer Manhole 91624 8410 SAUREL DR GOOSE CREEK GROUND

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 938704 08/04/09 05:40 PM MARKS JR RHEINLAENDE FORCE 08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 02:50 R JR DISCHARGE **MAJEURE CAPACITY** DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	3,650 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS WERE POSTED
Impact:	PERSONAL HYGIENE PRODUCTS & SEWAGE WERE OBSERVED
Repair:	THIS SITE WAS FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

08/05/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 05:40 PM	DISPUB	TEMPORARY SIGNS WERE POSTED
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 91782 2515 WOODSIDE RD LONGVIEW CREEK GROUND

WO # Activity Code / Description **Initiated** Initiated By Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 938062 08/04/09 10:48 AM **ELDER** RHEINLAENDE FORCE 08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 01:50 R JR РМ DISCHARGE **MAJEURE CAPACITY** DISCHAGE -WATERS

## Spot Inspections:

Discharge Amount:	18,000 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN
Clean Up:	NO CLEAN UP REQUIRED, NO SOLIDS OR DEBRIS OBSERVED
Control Zone:	PERMANENT SIGNS IN PLACE AT MANHOLE
Impact:	SEWER WATER OBSERVED OVERFLOWING MANHOLE
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP

08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 10:48 AM	DISPUB	PERMANENT SIGNS POSTED
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 91783 2607 PHOENIX HILL DR LONGVIEW CREEK GROUND

WO # Activity Code / Description **Initiated** Initiated By Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 938051 08/04/09 10:48 AM **ELDER** RHEINLAENDE FORCE 08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 01:50 R JR DISCHARGE **MAJEURE CAPACITY** DISCHAGE -PMWATERS

#### Spot Inspections:

Discharge Amount:	4,500 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	NO CLEAN UP REQUIRED, NO SOLIDS AND FLOATABLES OBSERVED.
Control Zone:	PERMANENT SIGNS IN PLACE IN AREA
Impact:	SEWAGE ON THE GROUND
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP.

08/04/09 11:04 AM	DISPUB	PERMANENT SIGNS IN AREA
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 99259 3536 FINCASTLE RD CAMP TAYLOR DITCH GROUND

WO # Activity Code / Description **Initiated Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935750 07/29/09 07:36 AM MITCHELL **GRIFFITH** DOCUMENTED 07/29/09 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 09:51 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

## Spot Inspections:

Discharge Amount:	1,800 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	A CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS HAVE BEEN PLACED AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS WAS OBSERVED AROUND DISCHARGE SITE
Repair:	SITE FOUND DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 07:36 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISHCARGED CONTENT
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



WATERS



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center** Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Activity Code / Description WO**# <u>Initiated</u> **Initiated By Assigned To Disch Status Event Date Problem** Result Completed Condition **GRIFFITH** LACK OF SYSTEM 08/04/09 06:40 938175 08/04/09 11:08 AM MITCHELL DOCUMENTED 07/29/09 UNAUTHORIZED DISREV: RAIN EVENT CAPACITY DISCHAGE -PM

DISCHARGE

# Spot Inspections:

Discharge Amount:	144,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941722
Control Zone:	DOOR HANGERS AND TEMPORARY SIGNS PLACE AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 11:08 AM	DISPUB	PUBLIC WAS NOTIFIED THROUGH DOOR HANGERS AND TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTET
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole 99277 3696 FINCASTLE RD SOUTH FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938781 08/04/09 10:59 AM MITCHELL GRIFFITH FORCE 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 06:30

DISCHARGE MAJEURE CAPACITY DISCHAGE - PM

WATERS

# Spot Inspections:

Discharge Amount:	4,320 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941569
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE PLACED AROUND DISCHARGE AREA
Impact:	LIGHT IMPACT OBSERVED DUE TO MAGNITUDE OF THE STORM
Repair:	SITE FOUND DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 01:48 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 11:28 AM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SSL Sewer Service Line BU05074039 3305 BENT CREEK CT

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 939024 08/04/09 01:47 PM MITCHELL **GRIFFITH** LACK OF SYSTEM **UNAUTHORIZED** 08/05/09 12:47 DISCHARGE CAPACITY DISCHAGE -AM WATERS

## Spot Inspections:

Discharge Amount:	144,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941681
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND DISCHARGE AREA
Impact:	LIGHT IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS LOCATION WAS FOUND DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 01:48 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SSL Sewer Service Line BU05091039 3303 TROUT CREEK DR SOUTH FORK GROUND

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 938870 08/04/09 01:40 PM MITCHELL GRIFFITH FORCE 08/04/09 LACK OF SYSTEM UNAUTHORIZED 08/04/09 09:36

DISCHARGE MAJEURE CAPACITY DISCHAGE - PM WATERS

# Spot Inspections:

Discharge Amount:	144,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941692
Control Zone:	TEMPORARY SIGNS WERE PLACED AROUND DISCHARE AREA
Impact:	LIGHT DEBRIS AND SOLIDS OBSERVED AROUND IMPACTED AREA
Repair:	SITE WAS FOUND DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALUATED FOR REPAIR

08/05/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 01:38 PM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole CS0018 1800 NIGHTINGALE RD SOUTH FORK STREAM

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISDW: DRY WEATHER 936580 07/30/09 01:48 PM SINGLETON SMITH REPAIRED - 09/28/09 POWER OUTAGE UNAUTHORIZED 07/30/09 10:03

DISCHARGE ISSUE (LG&E) DISCHAGE - PM
RESOLVED WATERS

# Spot Inspections:

Discharge Amount:	342,000 GAL
Cause:	LG&E TRANSFORMER AT NIGHTINGALE PUMP STATION FAILED
Clean Up:	NO CLEAN UP REQUIRED DUE TO ELEVATED CREEK LEVEL.
Control Zone:	PERMANENT & TEMPORARY OVERFLOW WARNING SIGNS IN PLACE ALONG STREAM
Impact:	NO VISUAL IMPACT
Repair:	LG&E REPLACED THE TRANSFORMERS

07/30/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/31/09 02:00 PM	DISPUB	Permanent & temporary signs posted
07/30/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



KPDES# **Facility ID** KY0022411 (Cont'd) MSD0278

**Water Quality Treatement Center MORRIS FORMAN** 

**Receiving Stream of Treatment Center OHIO RIVER** 

**Activity Code / Description** DISREV: RAIN EVENT

DISCHARGE

**WO**# 958654

<u>Initiated</u> 09/23/09 12:32 AM

Initiated By SINGLETON

**Assigned To SPENCER** 

**Disch Status** REPAIRED -ISSUE

RESOLVED

**Event Date** 09/28/09

**Problem** ELECTRICAL PROBLEMS AT MSD

Result UNAUTHORIZED DISCHAGE -

Completed Condition 09/23/09 12:53

Region

**WEST** 

AM

WATERS

# Spot Inspections:

Discharge Amount:	5,088 GAL
Cause:	TRIPPED BREAKER FOR PUMP #1
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEANUP
Control Zone:	PIPE DISCHARGE SUBMERGED- NO CONTROL ZONE
Impact:	NO IMPACT OBSERVED
Repair:	RESET PUMP BREAKER

09/23/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/23/09 12:32 PM	DISPUB	Permanent overflow advisory signs are in place along stream, no additional public notification was made.



WATERS



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description WO**# <u>Initiated</u> Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition BRAZEL ELECTRICAL 961755 09/28/09 11:49 AM MARKS JR REPAIRED -09/28/09 UNAUTHORIZED 09/28/09 12:19 DISDW: DRY WEATHER DISCHARGE ISSUE PROBLEMS AT MSD DISCHAGE -PM

RESOLVED

Spot Inspections:

Discharge Amount:	8,576 GAL
Cause: ELECTRICAL CONTROLS PROBLEM	
Clean Up:	NO CLEAN UP REQUIRED SUBMERGED DISCHARGE PIPE
Control Zone:	PERMANENT AND TEMPORARY SIGNS POSTED
Impact: SLIGHT DISCOLORATION OF STREAM	
Repair:	REPAIRED MOTOR CONTROLER WITH SPARE PARTS

09/28/09 01:18 PM	DISPUB	public notified by msd website and temporary signs
09/28/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole CSO019 816 N 34TH ST OHIO RIVER STREAM

WO # **Activity Code / Description Initiated** Initiated By Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISDW: DRY WEATHER 933317 07/27/09 02:45 PM **FRENCH** HUMPHREY REPAIRED -07/27/09 MECHANICAL FAILURE UNAUTHORIZED 07/27/09 04:05 DISCHARGE ISSUE DISCHAGE -PM**RESOLVED** WATERS

#### Spot Inspections:

Discharge Amount:	1,200,000 GAL
Cause:	MECHANICAL FAILURE OF PUMPS. THERE ARE THREE 75HP PUMPS. TWO PUMPS FAILED RECENTLY AND ARE OFF-SITE BEING REPAIRED. THE REMAINING PUMP FAILED.
Clean Up:	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY TO RIVER
Control Zone:	NO CONTROL ZONE SETUP - PIPES DISCHARGE UNDERWATER, DIRECTLY TO RIVER
Impact:	NONE OBSERVED - OUTLETS SUBMERGED
Repair:	ONE PUMP PLACED BACK IN SERVICE AT 4:00PM 7/27/09, SECOND, BACKUP PUMP PLACED IN SERVICE AT 6:00PM 7/27/09

07/27/09 09:36 AM	DISPUB	Public Notified through Project WIN website and listserve email notification and updates to the media.
07/27/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/28/09 05:09 PM	DISSNO	Manually sent supplemental notification at 5:00 ahead of automatic notification. Notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/27/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SMH Sewer Manhole CS0088 1733 BROWNSBORO RD SOUTH FORK STREAM

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISDW: DRY WEATHER 943613 08/13/09 07:30 AM BRIGHT BRIGHT REPAIRED - 08/13/09 OBSTRUCTION-NOT UNAUTHORIZED 08/13/09 03:15

DISCHARGE ISSUE GREASE / ROOTS DISCHAGE - PM
RESOLVED WATERS

# Spot Inspections:

Discharge Amount:	500 GAL
Cause:	DISCOVERED A WHEEL BARROW TIRE IN LINE
Clean Up:	NO CLEAN UP PERFORMED-PIPE DISCHARGES UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	DISCOLORATION OF STREAM
Repair:	REMOVED WHEELBARROW TIRE

08/13/09 05:23 PM	DISPUB	ADVISED ALL POSSIBLE IMPACTED PROPERTIES IN THE SURROUNDING AREA IN PERSON
08/13/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

1834 MELLWOOD AVE STREAM CSO154 SMH Sewer Manhole MUDDY FORK

BEARGRASS CREEK

**Activity Code / Description** WO# **Initiated** Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISDW: DRY WEATHER 943615 08/13/09 11:00 AM **BRIGHT BRIGHT** REPAIRED -08/13/09 ROOTS UNAUTHORIZED 08/13/09 06:09 MAIN

DISCHARGE ISSUE DISCHAGE -

**RESOLVED WATERS** 

# Spot Inspections:

Discharge Amount:	1,500 GAL
Cause:	ROOTS IN MAIN SEWER
Clean Up:	NO CLEAN UP PERFORMED- PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	DISCOLORATION OF STREAM
Repair:	WORK ORDER 943859 - ROOT CUT THE MAIN SEWER

08/13/09 05:30 PM	DISPUB	ADVISED ALL POSSIBLE IMPACTED PROPERTIES IN THE SURROUNDING AREA IN PERSON
08/13/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSMH Sewer ManholeCSO1951200 S 4TH STOHIO RIVERSTREAM

WO # **Activity Code / Description** <u>Initiated</u> Initiated By Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISDW: DRY WEATHER 947859 08/27/09 12:00 PM MULLER **SCHAFTLEIN** REPAIRED -08/27/09 STRUCTURAL **UNAUTHORIZED** 08/27/09 05:20 DISCHARGE ISSUE **FAILURE** DISCHAGE -PM**RESOLVED** WATERS

## Spot Inspections:

Discharge Amount:	6,600 GAL
Cause:	SEWER LINE COLLAPSE ON OAK ST
Clean Up:	SITE CLEANED AS NEEDED, BUT OVERFLOW HAS REACHED A SUBMERGED OUTFALL IN THE RIVER
Control Zone:	SITE BARRICADED
Impact:	LINE COLLAPSED - FLOWING INTO THE CRD
Repair:	DISCHARGE HAS STOPPED AND CONTRACTORS ARE MAKING REPAIRS TO SEWER.

08/27/09 04:51 PM	DISPUB	SITE BARRICADED AND WEBSITE UPDATED WITH INFORMATION
08/27/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSSL Sewer Service LineKK148150194108 LEE AVECAMP TAYLOR DITCHGROUND

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 936113 07/29/09 09:12 AM MITCHELL **GRIFFITH** DOCUMENTED 07/29/09 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 01:30 DISCHARGE **CAPACITY** DISCHAGE -PMWATERS

## Spot Inspections:

Discharge Amount:	258 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	CLEAN-UP WORK ORDER WILL BE CREATED FOR I&FP FOR THIS LOCATION
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS WERE PLACED AT IMPACTED AREA
Impact:	VERY LIGHT IMPACT OBSERVED AROUND DISCHARGE AREA
Repair:	SITE FOUND DURING RAIN EVENT RECON-WILL BE MONITERED AND EVALUATED FOR REPAIR

07/29/09 09:12 AM	DISPUB	ADVISED CUSTOMER ON SITE AND THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
07/29/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022411 (Cont'd) Facility ID MSD0278

Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT

DISCHARGE

<u>WO #</u> 938784 <u>Initiated</u> 08/04/09 10:32 AM Initiated By MITCHELL Assigned To Disconnection 
GRIFFITH DOC

Disch Status

DOCUMENTED

Event Date Problem
07/29/09 LACK OF SYSTEM

CAPACITY

Result UNAUTHORIZED DISCHAGE -

WATERS

Completed 08/04/09 10:01

PM

Spot Inspections:

Discharge Amount:	1,200 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #941882
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND THE DISCHARGED AREA
Impact:	LIGHT IMPACT OF SOLIDS AND DEBRIS OBSERVED AROUND DISCHARGE AREA
Repair:	SITE (CLEAN-OUT) FOUND DURING RAIN EVENT RECON-WILL BE MONITORED AND EVALURATED FOR REPAIR

08/05/09 01:52 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 11:34 AM	DISPUB	PUBLIC NOTIFIED THROUGH TEMPORARY SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
08/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD0007-PS 334 MOCKINGBIRD VALLEY RD MOCKINGBIRD VALLEY MUDDY FORK DITCH

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938673 08/04/09 08:30 AM **ELDER** RHEINLAENDE DOCUMENTED 03/20/02 LACK OF SYSTEM UNAUTHORIZED 08/05/09 12:30

DISCHARGE R JR CAPACITY DISCHAGE - PM

WATERS

Spot Inspections:

Discharge Amount:	9,999 GAL
Cause:	STATION FLOODED DUE TO STORM IN THE AREA
Clean Up:	NO DEBRIS DUE TO STATION FLOODING
Control Zone:	PERMANENT SIGNS POSTED IN AREA
Impact:	NO VISUAL IMPACT DUE TO FLOODING
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

08/05/09 11:22 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 08:30 AM	DISPUB	PERMANENT SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

3246 RADIANCE RD STREAM MSD0012-PS HIGHGATE SPRINGS SLS Sewer Lift Station SOUTH FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935716 07/29/09 07:40 AM **ELDER** WHITTAKER DOCUMENTED 12/16/00 LACK OF SYSTEM UNAUTHORIZED 07/29/09 11:55

DISCHARGE SR CAPACITY DISCHAGE -AM

**WATERS** 

Spot Inspections:

Discharge Amount:	97,500 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	NO DEBRIS- PIPE DISCHARGE SUBMERGED
Control Zone:	PIPE DISCHARGE SUBMERGED- NO CONTROL ZONE
Impact:	NO IMPACT OBSERVED
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 07:40 AM	DISPUB	Permanent signs posted
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description WO**# <u>Initiated</u> Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition RIES LACK OF SYSTEM 939740 08/04/09 09:38 AM SINGLETON DOCUMENTED 12/16/00 UNAUTHORIZED 08/06/09 06:05 DISREV: RAIN EVENT CAPACITY DISCHARGE DISCHAGE -AM WATERS

# Spot Inspections:

Discharge Amount:	3,931,200 GAL
Cause:	LACK OF SEWER CAPACITY
Clean Up:	NO DEBRIS OBSERVED
Control Zone:	DISCHARGE PIPE SUBMERGED- NO CONTROL ZONE SET UP
Impact:	NO IMPACT OBSERVED- DISCHARGE PIPE SUBMERGED
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN.

08/06/09 01:21 PM	DISPUB	NOTIFICATION MADE THROUGH PERMANENT SIGNS POSTED NEAR OVERFLOW LOCATION.
08/06/09 01:22 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/06/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Condition



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0022411 (Cont'd) Facility ID MSD0278

Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT

DISCHARGE

<u>WO #</u> 956936 <u>Initiated</u> 09/20/09 10:42 PM Initiated By ELDER Assigned To WRIGHT Disch Status

DOCUMENTED

Event Date Problem
12/16/00 LACK OF SYS

LACK OF SYSTEM CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

WATERS

Completed 09/21/09 12:37

AM

# Spot Inspections:

Discharge Amount:	21,870 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	NO IMPACT OBSERVED- PIPE DISCHARGE SUBMERGED
Control Zone:	PIPE DISCHARGE SUBMERGED- NO CONTROL ZONE
Impact:	NO IMPACT OBSERVED- PIPE DISCHARGE SUBMERGED
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN.

09/21/09 07:53 AM	DISPUB	NOTIFICATION MADE THROUGH PERMANENT SIGNS POSTED NEAR OVERFLOW LOCATION.
09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSLS Sewer Lift StationMSD0015-PS341 MAC BRAE RDNORTHERN DITCHPOND CREEKGROUND

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 936233 07/29/09 01:30 PM MARKS JR **PATTERSON FORCE** 08/04/09 **ELECTRICAL UNAUTHORIZED** 07/29/09 01:30 DISCHARGE **MAJEURE** PROBLEMS AT MSD DISCHAGE -PMWATERS

# Spot Inspections:

Discharge Amount:	50 GAL
Cause:	THREE PUMPS CYCLED AT THE SAME TIME
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	PUMP BEING REPAIRED

07/29/09 05:43 PM	DISPUB	msd notified public through its website and temporary signs
07/29/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description WO**# <u>Initiated</u> Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition **FLORENCE** LACK OF SYSTEM 08/04/09 08:00 938285 08/04/09 10:30 AM SINGLETON FORCE 08/04/09 UNAUTHORIZED DISREV: RAIN EVENT CAPACITY DISCHARGE **MAJEURE** DISCHAGE -PM WATERS

# Spot Inspections:

Discharge Amount:	228,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	AREA RAKED & SANITIZED
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	DEBRIS & SOLIDS OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS IN THE INTEGRATED OVERFLOW ABATEMENT PLAN

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 10:30 AM	DISPUB	TEMPORARY SIGNS WERE POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSLS Sewer Lift StationMSD0016-PS213 SCOTTSDALE BLVDSCOTTSDALE #1NORTHERN DITCHGROUND

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 938661 08/04/09 05:15 PM SINGLETON **FERRIELL FORCE** 08/04/09 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 06:10 РМ DISCHARGE **MAJEURE CAPACITY** DISCHAGE -WATERS

# Spot Inspections:

Discharge Amount:	1,375 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	NO DEBRIS OBSERVED
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED DUE TO MAGNITUDE OF STORM
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR.

08/04/09 05:15 PM	DISPUB	MSD ADVISED CUSTOMER ON SITE AND POSTED TEMPORARY SIGNS
08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD0023-PS 501 MOCKINGBIRD VALLEY RD MELLWOOD AVENUE MUDDY FORK STREAM

BEARGRASS CREEK

Activity Code / Description WO # Initiated Initiated By Assigned To Disch Status Event Date Problem Result Completed Condition

DISREV: RAIN EVENT 935814 07/29/09 08:40 AM SINGLETON KAISER DOCUMENTED 01/02/04 LACK OF SYSTEM UNAUTHORIZED 07/30/09 12:20

DISCHARGE CAPACITY DISCHAGE - AM WATERS

# Spot Inspections:

Discharge Amount:	999,999,999 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	NO DEBRIS
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN

07/29/09 08:40 AM	DISPUB	Temporary signs posted
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

**Activity Code / Description WO**# <u>Initiated</u> Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition LACK OF SYSTEM 07/31/09 11:45 937198 07/31/09 09:30 AM SINGLETON KAISER DOCUMENTED 01/02/04 UNAUTHORIZED DISREV: RAIN EVENT CAPACITY DISCHARGE DISCHAGE -AM WATERS

# Spot Inspections:

Discharge Amount:	16,500 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE & DEBRIS OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

07/31/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/31/09 11:45 AM	DISPUB	Temporary signs posted
07/31/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

WATERS



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# **Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center** Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Activity Code / Description WO**# <u>Initiated</u> Initiated By **Assigned To Disch Status Event Date Problem** Result Completed Condition LACK OF SYSTEM 08/06/09 01:00 938672 08/04/09 12:00 AM **ELDER** RHEINLAENDER DOCUMENTED 01/02/04 UNAUTHORIZED DISREV: RAIN EVENT JR CAPACITY DISCHAGE -AM

DISCHARGE

# Spot Inspections:

Discharge Amount:	9,999 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO AREA FLOODING - STATION SUBMERGED
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS WERE POSTED
Impact:	SEWAGE & DEBRIS WERE OBSERVED
Repair:	THIS SITE WAS FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

08/05/09 11:19 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/05/09 03:00 PM	DISPUB	TEMPORARY SIGNS WERE POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Factor KY0022411 (Cont'd) M

Facility ID MSD0278

Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT

DISCHARGE

<u>WO #</u> 942573 <u>Initiated</u> 08/11/09 01:40 AM Initiated By SINGLETON Assigned To HOWARD Disch Status

DOCUMENTED

<u>Event Date</u> <u>Pr</u> 01/02/04 LA

LACK OF SYSTEM
CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

Completed Condition 08/11/09 03:00

HAGE - PM

WATERS

# Spot Inspections:

Discharge Amount:	4,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.

08/11/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/11/09 01:40 AM	DISPUB	TEMPORARY SIGNS POSTED
08/11/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSLS Sewer Lift StationMSD0042-PS1701 SONNE AVESONNE AVEPADDY RUNGROUND

WO # Completed Activity Code / Description <u>Initiated</u> Initiated By Assigned To **Disch Status Event Date Problem** Result Condition DISREV: RAIN EVENT 938279 08/04/09 10:46 AM SINGLETON **KESSEL** DOCUMENTED 12/16/00 LACK OF SYSTEM **UNAUTHORIZED** 08/04/09 09:00 РМ DISCHARGE **CAPACITY** DISCHAGE -WATERS

# Spot Inspections:

Discharge Amount:	20,220 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	DEBRIS OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS IN THE INTEGRATED OVERFLOW ABATEMENT PLAN.

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 10:46 AM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES# **Water Quality Treatement Center Receiving Stream of Treatment Center** Facility ID Region KY0022411 (Cont'd) MSD0278 **MORRIS FORMAN OHIO RIVER WEST** 

**Facility Type** Facility ID **Facility Address** If Pump Station, Name of Pump Station: **Receiving Stream** Discharge to

806 PINE WAY STREAM MSD0057-LS ANCHOR ESTATES #2 SLS Sewer Lift Station MIDDLE FORK

BEARGRASS CREEK

**Activity Code / Description** WO# Initiated Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition

DISREV: RAIN EVENT 935726 07/29/09 08:02 AM **ELDER VIERLING** DOCUMENTED 12/16/00 LACK OF SYSTEM UNAUTHORIZED 07/29/09 08:07 DISCHARGE CAPACITY DISCHAGE -AM

**WATERS** 

Spot Inspections:

Discharge Amount:	250 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 08:07 AM	DISPUB	temporary signs posted
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022411 (Cont'd) MSD0278 MORRIS FORMAN OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD0183-PS 3450 GLENVIEW AVE GLENVIEW HILLS OHIO RIVER DITCH

WO # Activity Code / Description <u>Initiated</u> Initiated By Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935725 07/29/09 07:45 AM SINGLETON LARUE DOCUMENTED 03/20/02 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 10:30 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

## Spot Inspections:

Discharge Amount:	250 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED AROUND AFFECTED AREA
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR

07/29/09 07:45 AM	DISPUB	Temporary signs posted around affected area
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



KPDES# **Facility ID Water Quality Treatement Center MORRIS FORMAN** KY0022411 (Cont'd) MSD0278

**Receiving Stream of Treatment Center OHIO RIVER** 

Region **WEST** 

Condition

**Activity Code / Description** DISREV: RAIN EVENT

WO # 936529 <u>Initiated</u>

07/30/09 11:25 AM

Initiated By MARKS JR

**Assigned To** LARUE

**Disch Status** DOCUMENTED **Event Date Problem** POWER OUTAGE 03/20/02

(LG&E)

Result UNAUTHORIZED DISCHAGE -

WATERS

Completed 07/30/09 11:50

AM

DISCHARGE

Spot Inspections:

The state of the s	
Discharge Amount:	250 GAL
Cause:	LGE POWER FALIURE
Clean Up:	MSD CLEANED AND SANITIZED AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	SEWAGE AND SOLIDS OBSERVED
Repair:	MSD HAULED FROM STATION UNTIL POWER RESTORED

07/30/09 01:18 PM	DISPUB	msd notified public by website and signs
07/30/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # F KY0022411 (Cont'd) M

Facility ID MSD0278

Water Quality Treatement Center MORRIS FORMAN

Receiving Stream of Treatment Center OHIO RIVER

Region WEST

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

<u>WO #</u> 938072 <u>Initiated</u> 08/04/09 09:00 PM Initiated By MARKS JR Assigned To LARUE Disch Status

DOCUMENTED

Event Date Problem 03/20/02 POWER

e Problem
POWER OUTAGE
(LG&E)

Result
UNAUTHORIZED
DISCHAGE -

WATERS

Completed 08/05/09 12:30

AM

# Spot Inspections:

Discharge Amount:	10,500 GAL
Cause:	LG&E POWER FAILURE
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	RAW SEWAGE OBSERVED
Repair:	LG&E RESTORED POWER

08/04/09 09:15 PM	DISPUB	MSD NOTIFIED PUBLIC WITH ITS WEB SITE AND TEMPORARY SIGNS
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0098540 MSD0289 CEDAR CREEK CEDAR CREEK CENT

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSSL Sewer Service Line1602646023 COOPER CHAPEL RDFISHPOOL CREEKGROUND

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To Disch Status **Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 936228 07/29/09 08:15 AM MARKS JR **PATTERSON** DOCUMENTED 06/03/06 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 10:00 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

## Spot Inspections:

Discharge Amount:	5,250 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS WERE POSTED
Impact:	SOLIDS & SEWAGE WERE OBSERVED
Repair:	HAULED WO#936779

07/29/09 05:43 PM	DISPUB	msd notified public throuigh web site
07/29/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# KY0098540 (Cont'd) **Facility ID** MSD0289

**Water Quality Treatement Center CEDAR CREEK** 

**Receiving Stream of Treatment Center CEDAR CREEK** 

Region CENT

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 940821 <u>Initiated</u>

08/04/09 12:00 PM

Initiated By SINGLETON

**Assigned To** OTTO

**Disch Status** DOCUMENTED **Event Date** 06/03/06

**Problem** LACK OF SYSTEM CAPACITY

Result UNAUTHORIZED DISCHAGE -

WATERS

Completed 08/05/09 03:00

AM

Spot Inspections:

Discharge Amount:	27,000 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE & DEBRIS OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR.

0	8/04/09 12:00 PM	DISPUB	TEMPORARY SIGNS POSTED
0	8/07/09 01:10 PM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0098540 (Cont'd) Facility ID MSD0289

Water Quality Treatement Center CEDAR CREEK

Receiving Stream of Treatment Center CEDAR CREEK

Region CENT

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

<u>WO #</u> 961488

Initiated 09/27/09 12:11 AM Initiated By MARKS JR Assigned To KESSEL <u>Disch Status</u> DOCUMENTED Event Date Problem
06/03/06 LACK OF

<u>Problem</u>
LACK OF SYSTEM
CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

WATERS

Completed 09/27/09 01:00

AM

# Spot Inspections:

Discharge Amount:	1,800 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	PERSONAL HYGIENE PRODUCTS, DEBRIS & SEWAGE OBSERVED.
Repair:	HAULING STATION TO PREVENT FURTHER DISCHARGE. #961581

09/26/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/27/09 12:11 AM	DISPUB	Temporary signs posted.
09/26/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0098540 (Cont'd) MSD0289 CEDAR CREEK CENT

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSPL Sewer Treatment PlantMSD02898605 CEDAR CREEK RDCEDAR CREEKGROUND

WO # **Activity Code / Description Initiated** Initiated By Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 956949 09/21/09 01:30 AM **ELDER** WRIGHT REPAIRED -09/21/09 BYPASS AT WQTC **UNAUTHORIZED** 09/21/09 01:45 DISCHARGE ISSUE DISCHAGE -AM **RESOLVED** WATERS

#### Spot Inspections:

Discharge Amount:	500 GAL
Cause:	OVERFLOWED OXIDATION DITCH DUE TO ELEVATED FLOWS DURING RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	DEBRIS CONTAINED ON MSD PROPERTY. WATER TO WUS.
Impact:	SOLIDS OBSERVED
Repair:	RAISED CENTER WELL GATE & LOWERED BYPASS GATE TO REMOVE WATER LEVEL IN OX. DITCH.

09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 09:58 AM	DISPUB	No public notification required, solids and debris contained to WQTC.





KPDES #Facility IDWater Quality Treatement CenterReceiving Stream of Treatment CenterRegionKY0039021MSD0290BANCROFTGOOSE CREEKEAST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SPL Sewer Treatment Plant MSD0290 7610 OLD ORCHARD CIR GOOSE CREEK STREAM

WO # **Activity Code / Description** <u>Initiated</u> **Initiated By** Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISDW: DRY WEATHER 944513 08/17/09 11:35 AM MARKS JR LARUE REPAIRED -08/17/09 BYPASS AT WQTC **UNAUTHORIZED** 08/17/09 11:45 DISCHARGE ISSUE DISCHAGE -AM **RESOLVED** WATERS

## Spot Inspections:

Discharge Amount:	250 GAL
Cause:	MECHNICAL PROBLEM WITH CLARIFIER COLLECTOR ARM
Clean Up:	CONTRACTOR CLEANED AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SOLIDS SEEN IN CREEK
Repair:	MAINTENANCE IS REPAIRED COLLECTOR DRIVE AND HAULING TANKS TO PREVENT FURTHER DISCHARGE #944509

08/17	7/09 03:32 PM	DISPUB	TEMPORARY SIGNS POSTED TO WARN PUBLIC
08/17	7/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0029114 MSD0292 HUNTING CREEK SOUTH HARRODS CREEK EAST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SLS Sewer Lift Station MSD1063-PS 6210 DEEP CREEK CT DEEP CREEK HARRODS CREEK DITCH

WO # Activity Code / Description <u>Initiated</u> **Initiated By** Assigned To **Disch Status Event Date Problem** Result Completed Condition DISREV: RAIN EVENT 935766 07/29/09 08:15 AM MARKS JR COOMER DOCUMENTED 12/16/00 LACK OF SYSTEM **UNAUTHORIZED** 07/29/09 09:00 DISCHARGE **CAPACITY** DISCHAGE -AM WATERS

## Spot Inspections:

Discharge Amount:	450 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMP SIGNS POSTED
Impact:	SEWAGE OBSERVED
Repair:	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REAPIRS

07/29/09 09:41 AM	DISPUB	public notified by msd web site and temporary signs
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



KPDES # KY0029114 (Cont'd)

Facility ID MSD0292

Water Quality Treatement Center HUNTING CREEK SOUTH

JR

Receiving Stream of Treatment Center HARRODS CREEK

Region EAST

Activity Code / Description
DISREV: RAIN EVENT

DISCHARGE

<u>WO #</u> 938494 <u>Initiated</u> 08/04/09 12:00 PM Initiated By ELDER Assigned To Disch Status
RHEINLAENDER DOCUMENTED

Event Date Problem

12/16/00 LACK OF SYSTEM
CAPACITY

Result
UNAUTHORIZED
DISCHAGE -

Completed Condition 08/04/09 01:15

PM

WATERS

Spot Inspections:

Discharge Amount:	5,625 GAL
Cause:	LACK OF SYSTEM CAPACITY
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE & PERSONAL HYGIENE PRODUCTS OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL BE MONITORED & EVALUATED FOR REPAIR.

08/04/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 12:00 PM	DISPUB	TEMPORARY SIGNS POSTED
08/04/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0042226 MSD0403 CHENOWETH RUN CHENOWETH RUN CENT

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to SMN Sewer Main 80351D-AG 14307 WAKEFIELD PL FLOYDS FORK GROUND

**Activity Code / Description** WO # **Initiated** Initiated By Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISDW: DRY WEATHER 952859 09/05/09 10:00 AM **ELDER** MILLS REPAIRED -09/05/09 STRUCTURAL **UNAUTHORIZED** 09/05/09 10:45 DISCHARGE ISSUE **FAILURE** DISCHAGE -AM **RESOLVED** WATERS

## Spot Inspections:

Discharge Amount:	300 GAL
Cause:	MSD1169-PS, LAKE FOREST PS, FORCE MAIN BREAK @14303 WAKEFIELD PL
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS PLACED AROUND AREA
Impact:	SEWAGE ON THE GROUND
Repair:	WORK ORDER 952852 - REPAIRED THE FORCE MAIN

# Notifications:

09/05/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/05/09 01:00 PM	DISPUB	Temporary signs placed around effected area
09/05/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 132
Total Work Orders Printed: 198



Appendix B-2 - Discharge Work Orders – BYPASS







KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0022420 MSD0202 HITE CREEK HITE CREEK EAST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSPL Sewer Treatment PlantMSD02025500 HITT RDHITE CREEKSTREAM

WO # **Activity Code / Description Initiated Initiated By** Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISDW: DRY WEATHER 948358 08/29/09 07:00 AM MARKS JR DUNN JR REPAIRED -08/29/09 BYPASS AT WQTC **UNAUTHORIZED** 08/29/09 07:20 DISCHARGE ISSUE DISCHAGE -AM **RESOLVED** WATERS

## Spot Inspections:

Discharge Amount:	25,000 GAL
Cause:	OBSTRUCTION IN DISCHARGE LINE FROM SAND FILTER TO UV SYSTEM
Clean Up:	MSD WILL CLEAN AND SANITIZE AREA
Control Zone:	AREA TAPED OFF AND SIGNS POSTED
Impact:	NO IMPACT OR DEBRIS OBSERVED TREATED WATER WITHOUT UV PROCESS
Repair:	USING PUMP AROUND FOR ADDITIONAL STORAGE UNTIL REPAIRS ARE COMPLETED

08/29/09 07:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/31/09 12:26 PM	DISPUB	PUBLIC NOTIFIED BY WEBSITE AND SIGNS





Report Selections: Excluding PPI, CSO, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES #
KY0022420 (Cont'd)

Facility ID MSD0202

Water Quality Treatement Center HITE CREEK

Receiving Stream of Treatment Center HITE CREEK

Region EAST

Activity Code / Description
DISDW: DRY WEATHER
DISCHARGE

<u>WO #</u> 948395 Initiated 08/29/09 03:17 PM Initiated By MARKS JR Assigned To DUNN JR <u>Disch Status</u> REPAIRED -ISSUE

RESOLVED

Event Date Problem
08/29/09 BYPASS AT WQTC

Result
UNAUTHORIZED
DISCHAGE -

Completed 08/29/09 06:00

PM

WATERS

Spot Inspections:

Discharge Amount:	10,000 GAL
Cause:	OBSTRUCTION IN LINE BETWEEN SAND FILTERS AND UV SYSTEM
Clean Up:	MSD CLEANED AND SANITIZED AREA
Control Zone:	TAPE AND SIGNS ARE POSTED
Impact:	NO IMPACT OBSERVED WATER IS TREATED ONLY MISSING UV SYSTEM
Repair:	WILL CONT REPAIRS AND PUMP AROUND TILL REPAIRS ARE COMPLETE

08/29/09 06:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/31/09 12:27 PM	DISPUB	PUBLIC NOTIFIED BY WEBSITE AND SIGNS POSTED





KPDES# Facility ID Water Qu KY0025194 MSD0255 JEFFERS

Water Quality Treatement Center JEFFERSONTOWN

Receiving Stream of Treatment Center CHENOWETH RUN

Region CENT

Facility Type F

Facility ID

Facility Address

If Pump Station, Name of Pump Station:

Receiving Stream

Discharge to

SPL Sewer Treatment Plant

MSD0255

10725 OLD TAYLORSVILLE RD

CHENOWETH RUN

STREAM

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

<u>WO #</u> 961491 <u>Initiated</u> 09/27/09 12:30 AM Initiated By MARKS JR Assigned To MILLS Disch Status

DOCUMENTED

**Event Date** 01/14/07 B

Problem
BYPASS AT WQTC

Result
UNAUTHORIZED

Completed 09/27/09 02:45

eted Condition

DISCHAGE -

WATERS

AM

# Spot Inspections:

Discharge Amount:	100 GAL
Cause:	RAIN EVENT CAUSED LACK OF SYSTEM CAPACITY
Clean Up:	CONTRACTOR CLEANED & SANITIZED THE AREA; MSD LIMED.
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SOILDS SEWAGE AND DEBRIS OBSERVED
Repair:	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP.

09/27/09 01:40 AM	DISPUB	msd notified public with temporary signs and web site
09/27/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/27/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0078956 MSD0277 DEREK R. GUTHRIE OHIO RIVER WEST

Facility Type Facility ID Facility Address If Pump Station, Name of Pump Station: Receiving Stream Discharge to

SPL Sewer Treatment Plant MSD0277 11621 LOWER RIVER RD OHIO RIVER STREAM

WO # **Activity Code / Description** <u>Initiated</u> **Initiated By** Assigned To Disch Status Event Date **Problem** Result Completed Condition DISDW: DRY WEATHER 955750 09/16/09 03:25 AM MARKS JR LAMBDIN JR DOCUMENTED 10/17/06 BYPASS AT WQTC **UNAUTHORIZED** 09/16/09 03:28 DISCHARGE DISCHAGE -AM WATERS

#### Spot Inspections:

Discharge Amount:	153,000 GAL
Cause:	#2 BISULFITE PUMP NOT PUMPING ENOUGH
Clean Up:	NO DEBRIS
Control Zone:	PIPE DISCHARGE SUBMERGED NO CONTROL ZONE
Impact:	NO IMPACT OBSERVED
Repair:	STARTED #1 BISULFITE PUMP RETOOK CL2 READING

09/16/09 12:47 PM	DISPUB	Bypass stopped within 3 minutes. Public notice was not posted on the website because overflow was directly into the Ohio River and was quickly diluted.  (Per BB)
09/16/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0098540 MSD0289 CEDAR CREEK CEDAR CREEK CENT

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSPL Sewer Treatment PlantMSD02898605 CEDAR CREEK RDCEDAR CREEKGROUND

WO # Activity Code / Description **Initiated** Initiated By Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISREV: RAIN EVENT 956949 09/21/09 01:30 AM **ELDER** WRIGHT REPAIRED -09/21/09 BYPASS AT WQTC **UNAUTHORIZED** 09/21/09 01:45 DISCHARGE ISSUE DISCHAGE -AM **RESOLVED** WATERS

#### Spot Inspections:

Discharge Amount:	500 GAL
Cause:	OVERFLOWED OXIDATION DITCH DUE TO ELEVATED FLOWS DURING RAIN EVENT
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	DEBRIS CONTAINED ON MSD PROPERTY. WATER TO WUS.
Impact:	SOLIDS OBSERVED
Repair:	RAISED CENTER WELL GATE & LOWERED BYPASS GATE TO REMOVE WATER LEVEL IN OX. DITCH.

09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/21/09 09:58 AM	DISPUB	No public notification required, solids and debris contained to WQTC.





KPDES # Facility ID Water Quality Treatement Center Receiving Stream of Treatment Center Region
KY0039021 MSD0290 BANCROFT GOOSE CREEK EAST

Facility TypeFacility IDFacility AddressIf Pump Station, Name of Pump Station:Receiving StreamDischarge toSPL Sewer Treatment PlantMSD02907610 OLD ORCHARD CIRGOOSE CREEKSTREAM

WO # **Activity Code / Description Initiated Initiated By** Assigned To **Disch Status** Event Date **Problem** Result Completed Condition DISDW: DRY WEATHER 944513 08/17/09 11:35 AM MARKS JR LARUE REPAIRED -08/17/09 BYPASS AT WQTC **UNAUTHORIZED** 08/17/09 11:45 DISCHARGE ISSUE DISCHAGE -AM **RESOLVED** WATERS

# Spot Inspections:

Discharge Amount:	250 GAL
Cause:	MECHNICAL PROBLEM WITH CLARIFIER COLLECTOR ARM
Clean Up:	CONTRACTOR CLEANED AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SOLIDS SEEN IN CREEK
Repair:	MAINTENANCE IS REPAIRED COLLECTOR DRIVE AND HAULING TANKS TO PREVENT FURTHER DISCHARGE #944509

## Notifications:

08/17/09 03:32 PM	DISPUB	TEMPORARY SIGNS POSTED TO WARN PUBLIC
08/17/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 5
Total Work Orders Printed: 6



Appendix B-3 - Discharge Work Orders - BLENDING







KPDES # KY0025194 Facility ID MSD0255

Water Quality Treatement Center JEFFERSONTOWN Receiving Stream of Treatment Center CHENOWETH RUN

Region CENT

Facility Type

Facility ID

Facility Address

If Pump Station, Name of Pump Station:

Receiving Stream

Discharge to

SPL Sewer Treatment Plant

MSD0255

10725 OLD TAYLORSVILLE RD

CHENOWETH RUN

STREAM

Activity Code / Description
DISREV: RAIN EVENT

DISCHARGE

<u>WO #</u> 932248 <u>Initiated</u> 07/22/09 04:58 PM Initiated By ELDER Assigned To Disch Status

LANGFORD DOCUMENTED

01/14/07

te Problem

BLENDING AT JTOWN

WQTC

Result
UNAUTHORIZED

Completed 07/22/09 05:01

eted <u>Condition</u>

DISCHAGE - PM

WATERS

Spot Inspections:

pot inspections:		
10,290,000 GPD		
5,910,000 GAL		
402 GAL		
RAIN EVENT IN AREA, HIGH FLOW		
PIPE SUBMERGED,BLEND, NO CLEANUP NECESSARY		
PERMENANT SIGNS AROUND AFFECTED AREA		
NO IMPACT OBSERVED		
NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION		

07/23/09 08:18 AM	DISPUB	Permenant signs along creek
07/23/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Initiated Jul 01, 2009 12:00 AM thru Sep 30, 2009 11:59 PN

Report Selections: Excluding PPI, CSO, Prob Code: BLEND, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# KY0025194 (Cont'd) **Facility ID** MSD0255

**Water Quality Treatement Center JEFFERSONTOWN** 

**Receiving Stream of Treatment Center CHENOWETH RUN** 

Region CENT

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 935691

<u>Initiated</u> 07/29/09 07:53 AM Initiated By **ELDER** 

**Assigned To** STEPHENSON **Disch Status** DOCUMENTED **Event Date** 01/14/07

**Problem BLENDING AT JTOWN** 

**WQTC** 

UNAUTHORIZED DISCHAGE -WATERS

Result

Completed Condition 07/29/09 02:25

PM

# Spot Inspections:

The state of the s		
Peal Plant Flow when Blending:	16,880,000 GPD	
Total Plant Flow when Blending:	7,290,000 GAL	
Discharge Amount:	548,114 GAL	
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	
Clean Up:	NO CLEAN UP REQUIRED	
Control Zone:	SIGNS POSTED AND PUBLIC NOTIFIED BY WEB SITE	
Impact:	NO IMPACT OBSERVED	
Repair:	NEGOTATIONS ARE UNDERWAY TO ALLOW BLENDING AT THIS LOCATION	

07/29/09 08:45 AM	DISPUB	public notified by signs posted and msd web site update
07/29/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
07/29/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





Report Selections: Excluding PPI, CSO, Prob Code: BLEND, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES # KY0025194 (Cont'd) Facility ID MSD0255

Water Quality Treatement Center JEFFERSONTOWN Receiving Stream of Treatment Center CHENOWETH RUN

Region CENT

Activity Code / Description
DISREV: RAIN EVENT
DISCHARGE

<u>WO #</u> 937958 Initiated 08/04/09 10:12 AM Initiated By ELDER Assigned To WRIGHT Disch Status

DOCUMENTED

Event Date Pro

e Problem
BLENDING AT JTOWN

**WQTC** 

UNAUTHORIZED DISCHAGE -WATERS

Result

Completed 08/05/09 02:24

AM

# Spot Inspections:

Peal Plant Flow when Blending:	17,770,000 GPD	
Total Plant Flow when Blending:	14,170,000 GAL	
Discharge Amount:	1,932,553 GAL	
Cause:	LACK OF SYSTEM CAPACITY DUE TO RAIN	
Clean Up:	NO CLEANUP REQUIRED, EFFLUENT RECEIVED PRIMARY AND UV TREATMENT	
Control Zone:	PERMENANT SIGNS POSTED	
Impact:	NO VISUAL IMPACT OBSERVED	
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION	

08/04/09 10:24 AM	DISPUB	PERMANENT SIGNS AROUND AREA & MSD WEBPAGE UPDATES
08/04/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
08/04/09 01:00 AM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov





Report Selections: Excluding PPI, CSO, Prob Code: BLEND, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# KY0025194 (Cont'd) **Facility ID** MSD0255

**Water Quality Treatement Center JEFFERSONTOWN** 

**Receiving Stream of Treatment Center CHENOWETH RUN** 

Region CENT

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 956924

<u>Initiated</u> 09/20/09 10:38 PM Initiated By **ELDER** 

**Assigned To** WRIGHT

**Disch Status** DOCUMENTED **Event Date** 01/14/07

<u>Problem</u> **BLENDING AT JTOWN** 

**WQTC** 

UNAUTHORIZED DISCHAGE -

Result

Completed 09/21/09 02:18

AM

WATERS

# Spot Inspections:

······································		
Peal Plant Flow when Blending:	15,250,000 GPD	
Total Plant Flow when Blending:	9,910,000 GAL	
Discharge Amount:	312,827 GAL	
Cause:	BLENDING DUE TO LACK OF SYSTEM CAPACITY DUE TO RAIN IN AREA	
Clean Up:	NO CLEANUP REQUIRED, EFFLUENT RECEIVED PRIMARY AND UV TREATMENT	
Control Zone:	PERMENANT SIGNS POSTED & TEMPORARY SIGNS PLACED AT EFFLUENT OF TREATMENT PLANT	
Impact:	NO IMPACTS OBSERVED	
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION	

09/21/09 07:22 AM	DISPUB	A PERMANENT SIGN IS POSTED AT THE OUTFALL OF THE TREATMENT PLANT, Temporary signs placed at effluent of treatment plant and internet web site used to inform public
09/21/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



Report Selections: Excluding PPI, CSO, Prob Code: BLEND, Result: WUS, Act Code: DISDW, DISREV, DISSUS

KPDES# KY0025194 (Cont'd) **Facility ID** MSD0255

**Water Quality Treatement Center JEFFERSONTOWN** 

**Receiving Stream of Treatment Center CHENOWETH RUN** 

Region **CENT** 

**Activity Code / Description** DISREV: RAIN EVENT DISCHARGE

**WO**# 961483 Initiated

09/26/09 10:21 PM

Initiated By MARKS JR

**Assigned To** WRIGHT

**Disch Status** DOCUMENTED **Event Date** 01/14/07

**Problem** BLENDING AT JTOWN

**WQTC** 

UNAUTHORIZED **DISCHAGE -**WATERS

Result

Completed 09/27/09 03:19

AM

Spot Inspections:

Peal Plant Flow when Blending:	14,458,000 GPD	
Total Plant Flow when Blending:	9,722,000 GAL	
Discharge Amount:	254,916 GAL	
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA	
Clean Up:	NO CLEAN UP REQUIRED EFFLUENT RECIEVED PRIMARY AND UV TREATMENT	
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA	
Impact:	NO IMPACT OBSERVED - MAGNITUDE OF STORM FLUSHED SOLIDS AND DEBRIS FROM SITE	
Repair:	NOGOTATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION	

#### Notifications:

09/27/09 12:30 AM	DISPUB	MSD notified public with temporary signs and web site
09/26/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
09/26/09 01:00 PM	DISSNO	Supplemental Email notification of unauthorized discharge has been sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 1 Total Work Orders Printed: 5



Appendix C – Annual Average Overflow Volume



# Louisville MSD Existing Condition AAOV

· · · · · · · · · · · · · · · · · · ·	009 IWCS r 9.5) OF Incidents (# OF/YR) 66 30 16 60 12 4 28 0 0 0 33	Change in AAOV (MG/YR) Jan-Oct -331.28 -52.44 -4.07 7.48 0.14 0.00 -9.18 0.00 0.00 0.00 0.00
CSO   CSO NAME   STREAM   Area (Acres)   AAOV (MG/YR)   (MG/YR)   (MG/YR)	OF Incidents (# OF/YR) 66 30 16 60 12 4 28 0 0	(MG/YR) Jan-Oct -331.28 -52.44 -4.07 7.48 0.14 0.00 -9.18 0.00 0.00 0.00
CSO CSO NAME  O15 SOUTHWESTERN PS  OR  7,496.7 1177.03 56 845.75  O16 MILES PARK BYPASS  OR  018 NIGHTINGALE PS  OR  019 34th STREET PS  OR  019 BUCHANAN PS  OR  020 BUCHANAN PS  OR  021 FOURTH ST PS  OR  022 FOURTH ST PS  OR  023 ORI @ 4th ST PS  OR  026 CRD 6th & BROADWAY  O27 CRD 7th & BROADWAY  O28 CRD 6th & YORK  O30 CRD 9th & YORK  OR  O30 CRD 9th & YORK  OR  OR  CRD 9th & YORK  OR  CRD 9th & YORK  OR  OR  OR  OR  OR  OR  OR  OR  OR	Incidents (# OF/YR) 66 30 16 60 12 4 28 0 0	Jan-Oct  -331.28  -52.44  -4.07  7.48  0.14  0.00  -9.18  0.00  0.00  0.00
CSO         CSO NAME         (MG/YR)         (# OF/YR)         (MG/YR)           015         SOUTHWESTERN PS         OR         7,496.7         1177.03         56         845.75           016         MILES PARK BYPASS         OR         82.38         37         29.94           018         NIGHTINGALE PS         SF BGC         49.00         16         44.93           019         34th STREET PS         OR         1,094.0         297.92         60         305.40           020         BUCHANAN PS         OR         86.6         6.46         14         6.60           022         FOURTH ST PS         OR         100.9         0.95         4         0.96           023         ORI @ 4th ST PS         OR         85.96         26         76.78           026         CRD 6th & BROADWAY         OR         8.4         0.00         0         0.00           027         CRD 7th & BROADWAY         OR         10.1         0.00         0         0.00           028         CRD 6th & YORK         OR         6.1         0.00         0         0.00           029         CRD 9th & YORK "A"         OR         Eliminated         Se66         33	(# OF/YR) 66 30 16 60 12 4 28 0 0	-331.28 -52.44 -4.07 7.48 0.14 0.00 -9.18 0.00 0.00 0.00
015         SOUTHWESTERN PS         OR         7,496.7         1177.03         56         845.75           016         MILES PARK BYPASS         OR         82.38         37         29.94           018         NIGHTINGALE PS         SF BGC         49.00         16         44.93           019         34th STREET PS         OR         1,094.0         297.92         60         305.40           020         BUCHANAN PS         OR         86.6         6.46         14         6.60           022         FOURTH ST PS         OR         100.9         0.95         4         0.96           023         ORI @ 4th ST PS         OR         85.96         26         76.78           026         CRD 6th & BROADWAY         OR         8.4         0.00         0         0.00           027         CRD 7th & BROADWAY         OR         10.1         0.00         0         0.00           028         CRD 6th & YORK         OR         6.1         0.00         0         0.00           029         CRD 8th & YORK         OR         34.8         5.66         33         5.66           030         CRD 9th & YORK "A"         OR         Eliminated	30 16 60 12 4 28 0 0	-52.44 -4.07 7.48 0.14 0.00 -9.18 0.00 0.00 0.00
018         NIGHTINGALE PS         SF BGC         49.00         16         44.93           019         34th STREET PS         OR         1,094.0         297.92         60         305.40           020         BUCHANAN PS         OR         86.6         6.46         14         6.60           022         FOURTH ST PS         OR         100.9         0.95         4         0.96           023         ORI @ 4th ST PS         OR         85.96         26         76.78           026         CRD 6th & BROADWAY         OR         8.4         0.00         0         0.00           027         CRD 7th & BROADWAY         OR         10.1         0.00         0         0.00           028         CRD 6th & YORK         OR         6.1         0.00         0         0.00           029         CRD 8th & YORK         OR         34.8         5.66         33         5.66           030         CRD 9th & YORK "A"         OR         Eliminated	16 60 12 4 28 0 0	-4.07 7.48 0.14 0.00 -9.18 0.00 0.00
019         34th STREET PS         OR         1,094.0         297.92         60         305.40           020         BUCHANAN PS         OR         86.6         6.46         14         6.60           022         FOURTH ST PS         OR         100.9         0.95         4         0.96           023         ORI @ 4th ST PS         OR         85.96         26         76.78           026         CRD 6th & BROADWAY         OR         8.4         0.00         0         0.00           027         CRD 7th & BROADWAY         OR         10.1         0.00         0         0.00           028         CRD 6th & YORK         OR         6.1         0.00         0         0.00           029         CRD 8th & YORK         OR         34.8         5.66         33         5.66           030         CRD 9th & YORK "A"         OR         Eliminated	60 12 4 28 0 0	7.48 0.14 0.00 -9.18 0.00 0.00 0.00
020         BUCHANAN PS         OR         86.6         6.46         14         6.60           022         FOURTH ST PS         OR         100.9         0.95         4         0.96           023         ORI @ 4th ST PS         OR         85.96         26         76.78           026         CRD 6th & BROADWAY         OR         8.4         0.00         0         0.00           027         CRD 7th & BROADWAY         OR         10.1         0.00         0         0.00           028         CRD 6th & YORK         OR         6.1         0.00         0         0.00           029         CRD 8th & YORK         OR         34.8         5.66         33         5.66           030         CRD 9th & YORK "A"         OR         Eliminated	12 4 28 0 0	0.14 0.00 -9.18 0.00 0.00
022         FOURTH ST PS         OR         100.9         0.95         4         0.96           023         ORI @ 4th ST PS         OR         85.96         26         76.78           026         CRD 6th & BROADWAY         OR         8.4         0.00         0         0.00           027         CRD 7th & BROADWAY         OR         10.1         0.00         0         0.00           028         CRD 6th & YORK         OR         6.1         0.00         0         0.00           029         CRD 8th & YORK         OR         34.8         5.66         33         5.66           030         CRD 9th & YORK "A"         OR         Eliminated	4 28 0 0 0	0.00 -9.18 0.00 0.00 0.00
023         ORI @ 4th ST PS         OR         85.96         26         76.78           026         CRD 6th & BROADWAY         OR         8.4         0.00         0         0.00           027         CRD 7th & BROADWAY         OR         10.1         0.00         0         0.00           028         CRD 6th & YORK         OR         6.1         0.00         0         0.00           029         CRD 8th & YORK         OR         34.8         5.66         33         5.66           030         CRD 9th & YORK "A"         OR         Eliminated         Section 10.00         0         0.00	28 0 0 0	-9.18 0.00 0.00 0.00
026         CRD 6th & BROADWAY         OR         8.4         0.00         0         0.00           027         CRD 7th & BROADWAY         OR         10.1         0.00         0         0.00           028         CRD 6th & YORK         OR         6.1         0.00         0         0.00           029         CRD 8th & YORK         OR         34.8         5.66         33         5.66           030         CRD 9th & YORK "A"         OR         Eliminated         CRD 9th         CRD	0 0 0	0.00 0.00 0.00
027         CRD 7th & BROADWAY         OR         10.1         0.00         0         0.00           028         CRD 6th & YORK         OR         6.1         0.00         0         0.00           029         CRD 8th & YORK         OR         34.8         5.66         33         5.66           030         CRD 9th & YORK "A"         OR         Eliminated         Image: CRD 9th & YORK "A"         OR         Eliminated         Image: CRD 9th & YORK "A"         OR         Image: CRD 9th & YORK "A"	0	0.00
028         CRD 6th & YORK         OR         6.1         0.00         0         0.00           029         CRD 8th & YORK         OR         34.8         5.66         33         5.66           030         CRD 9th & YORK "A"         OR         Eliminated         Section 1.00         CRD 9th 2.00	0	0.00
029         CRD 8th & YORK         OR         34.8         5.66         33         5.66           030         CRD 9th & YORK "A"         OR         Eliminated         Section 1.0         CRD 9th 2.0         CRD 9th 2.0		
030 CRD 9th & YORK "A" OR Eliminated	33	0.00
		0.00
031 CRD 6th & BRECKINRIDGE OR 3.7 0.00 0 0.00		
	0	0.00
032 CRD 4th & BRECKINRIDGE OR Eliminated		
033 CRD ON YORK E OF 4th OR Eliminated		
034	0	0.00
035 CRD 2nd & BROADWAY NO 1 OR 14.3 0.23 11 0.23	11	0.00
036 CRD 3rd & BROADWAY OR 23.1 0.03 4 0.03	4	0.00
038 CRD 5th & BROADWAY OR 9.5 0.00 0 0.00	0	0.00
049 PRESTON ST OR Eliminated		
050 12th STREET OR 36.3 43.75 42 39.77	41	-3.98
051 11th STREET OR 6.3 4.95 27 3.90	28	-1.05
052 10th STREET OR 8.7 9.81 33 8.66	30	-1.15
053 8th STREET OR 34.1 4.61 23 4.54	23	-0.07
054 7th STREET OR 7.1 0.11 32 0.11	23	0.00
055 6th STREET OR 18.0 21.10 34 19.17	31	-1.93
056 5th STREET OR 22.0 2.91 18 2.81	18	-0.10
057 FIRST STREET OVFL WEIR OR 0.00 0 0.00	0	0.00
058 PRESTON ST OVFL WEIR OR 105.4 121.51 51 124.16	51	2.65
062 LOGAN COMPANY OR 0.00 0 0.00	0	0.00
065 LAMPTON STREET SF BGC Eliminated		
080 PAYNE STREET MF BGC Eliminated		
081 LETTERLE SF BGC Eliminated		
082 BGI AT BGC SF BGC 1.16 24 1.13	24	-0.03
083   RENT ST & BROADWAY CONNEC   SF BGC   38.1   0.00   0   0.00	0	0.00
084 BRENT ST @ BGC SF BGC 125.1 17.96 34 17.94	34	-0.02
086 PAYNE AT SPRING MF BGC 6.1 0.00 0 0.00	0	0.00
087 BLUEHORSE SF BGC Eliminated		
088 MELLWOOD AVE INT SF BGC 18.8 0.58 6 0.58	6	0.00
091         SCHILLER AVE OVFL         SF BGC         15.0         1.62         34         1.62	34	0.00
092         ST CATHERINE @ BGC         SF BGC         7.7         0.00         0         0.00	0	0.00
093         SPRING STREET         SF BGC         20.8         1.81         37         1.81	37	0.00
097         CANTONMENT SIPHON NO 2         SF BGC         16.19         44         16.07	45	-0.12
104 SW PKWY SEWER @ BROADWAY OR 62.0 0.20 5 0.20	5	0.00
105 VESTERN OUTFALL @ BROADWA	19	0.03
106 ROYAL - NEFF SF BGC 11.8 0.34 17 0.34	17	0.00
108 REG N0 1 - NEWBURG SF BGC 485.2 31.83 13 36.07	27	4.24

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# Louisville MSD Existing Condition AAOV

				October 2008 IWCS (ver8.0)		January 2009 IWCS (ver 9.5)		Change in
		RECEIVING	Drainage					AAOV
		STREAM	Area (Acres)	AAOV		AAOV	OF In aid anta	(MG/YR)
CSO	CSO NAME			(MG/YR)	Incidents (# OF/YR)	(MG/YR)	Incidents (# OF/YR)	Jan-Oct
109	REG NO 2 - DEER PARK	SF BGC	95.4	0.27	3	0.27	3	0.00
110	REG NO 3 - GOSS AVE	SF BGC	73.0	30.49	44	30.39	43	-0.10
111	EMERSON STREET SEWER	SF BGC	99.4	0.00	0	0.00	0	0.00
113	ELLISON AVENUE SEWER	SF BGC	67.6	7.74	37	7.74	37	0.00
117	REG NO 11 - DRY RUN	SF BGC	74.2	94.99	41	94.13	41	-0.86
118	REG NO 15 - E BRDWY	SF BGC	354.1	100.49	39	100.17	39	-0.32
119	BRENT STREET SEWER	SF BGC	7.6	12.59	40	12.51	40	-0.08
120	PHOENIX HILL SEWER	SF BGC	16.5	9.24	51	9.24	51	0.00
121	REG NO 18 - GREEN ST	SF BGC	107.2	11.26	28	11.23	28	-0.03
123	REG NO 20 - RUTH-SULGRV	MF BGC	Eliminated					
125	REG NO 24 - GRINSTEAD DR	MF BGC	391.0	48.58	55	48.63	54	0.05
126	REG NO 26 - RAYMOND AVE	MF BGC	35.3	0.55	13	0.55	13	0.00
127	ETLEY AVENUE	MF BGC	192.3	4.63	21	4.63	21	0.00
130	WEBSTER STREET	SF BGC	28.4	0.86	10	0.85	10	-0.01
131	EG NO 33 - MELWD & FRANKFOR	SF BGC	50.3	0.06	3	0.06	3	0.00
132	REG NO 35 - BROWNSBORO	MudF BGC	674.0	149.39	56	149.36	56	-0.03
137	CALVARY CEMETARY	SF BGC	26.7	3.94	37	3.93	37	-0.01
140	LOCUST STREET	MF BGC	75.5	17.01	54	17.01	54	0.00
141	BAXTER AVE @ BGC	SF BGC	7.7	5.07	27	5.06	27	-0.01
143	KENTUCKY ST BLOW-OFF	SF BGC	Eliminated					
144	VANCE ST REGULATOR	MF BGC	16.4	0.00	0	0.00	0	0.00
145	POINT PUMP STATION	SF BGC	Eliminated					
146	SNEADS BRANCH DIVERSION	SF BGC	112.6	50.45	46	52.57	58	2.12
147	SWAN STREET DIVERSION	SF BGC	Eliminated					
148	EASTERN PKWY DIVERSION	SF BGC	24.9	1.27	26	1.27	26	0.00
149	DRY RUN DIVERSION	SF BGC	226.5	56.93	38	56.78	37	-0.15
150	8th ST @ COMMON PLACE	OR	1.8	8.50	35	7.95	32	-0.55
151	REG NO 5 - CASTLEWOOD	SF BGC	219.7	85.00	56	86.01	57	1.01
152	REG NO 7 - SOUTHEASTERN	SF BGC	260.6	76.43	52	76.34	52	-0.09
153	COOPER STREET	SF BGC	41.7	15.67	56	15.66	56	-0.01
154	MELLWOOD @ SCHOEFFEL	MudF BGC	31.0	1.96	16	1.96	16	0.00
155	ROWAN ST @ 12th ST	OR	11.9	2.06	39	2.05	39	-0.01
156	6th & WASHINGTON SAN DIV	OR		0.12	12	0.10	11	-0.02
160	SEWER IN ALLEY SAN DIV	OR	2.0	0.28	28	1.24	76	0.96
161	MARKET ST SAN DIV	OR	2.5	0.01	1	0.001	1	-0.01
162	BEALS BRANCH HW REG	MF BGC	Eliminated					
166	BEALS BRANCH SAN DIV	MF BGC	696.6	10.09	19	10.13	19	0.04
167	BROWNSBORO LAT NO 2	MudF BGC	11.0	1.00	12	0.95	12	-0.05
172	ADAMS STREET	OR	13.7	1.28	31	1.28	31	0.00
178	CRD 9th & YORK "B"	OR	58.0	1.44	16	1.44	16	0.00
179	KENTUCKY ST SEWER OVFL	SF BGC	456.2	0.00	0	0.00	0	0.00
181	CRD 2nd & BROADWAY NO 2	OR	22.6	0.27	11	0.01	3	-0.26
189	NORTHWESTERN SAN DIV	OR	1,148.7	184.41	38	175.86	37	-8.55
190	SEVENTEENTH ST SAN DIV	OR	145.4	36.19	49	36.19	49	0.00
191	ALGONQUIN PKWY SAN DIV	OR	339.7	51.08	30	40.26	21	-10.82
192	CRD S 6th & GARLAND	OR	9.0	0.00	0	0.00	0	0.00

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# Louisville MSD Existing Condition AAOV

		RECEIVING Drainage		October 2008 IWCS (ver8.0)		January 2009 IWCS (ver 9.5)		Change in AAOV
CSO	CSO NAME	STREAM	Area (Acres)	AAOV (MG/YR)	OF Incidents (# OF/YR)	AAOV (MG/YR)	OF Incidents (# OF/YR)	(MG/YR)
193	CRD S 6th & KENTUCKY	OR	22.7	0.04	5	0.04	5	0.00
194	CRD S OAK W OF 4th	OR	Eliminated					
195	CRD S 4th & OAK	OR	7.3	2.19	55	2.19	55	0.00
196	CRD S 3rd & OAK	OR	2.2	0.24	19	0.13	11	-0.11
197	CRD S 3rd S OF OAK	OR	4.5	4.17	53	3.02	47	-1.15
198	CRD S 3rd & ORMSBY	OR	4.4	0.00	5	0.00	2	0.00
199	CRD S 3rd N OF MAGNOLIA	OR	8.6	0.46	45	0.46	45	0.00
200	CRD S 3rd & MAGNOLIA	OR	10.3	4.91	65	4.91	65	0.00
201	CRD S 5th & KENTUCKY	OR	8.3	0.00	0	0.00	0	0.00
202	CRD S ORMSBY W OF 3rd	OR	5.3	0.09	13	0.09	13	0.00
203	CRD S 4th & ORMSBY	OR	14.2	0.00	0	0.00	0	0.00
204	CRD S FIFTH & BRECKINRIDGE	OR	Eliminated					
206	CHEROKEE PARK @ SPRING DR	MF BGC	464.6	8.64	39	19.91	52	11.27
207	2nd & JEFFERSON	OR	2.3	0.05	2	0.04	1	-0.02
208	12th & JEFFERSON	OR	11.2	0.33	11	0.33	11	0.00
209	CHEROKEE PK @ PARK BD RD	MF BGC	Eliminated					
210	45th STREET-GREENWOOD	OR	166.7	503.73	52	197.29	51	-306.44
211	MAIN DIVERSION STRUCTURE	OR	3,554.9	465.55	29	377.61	29	-87.94
SBR	CSOs 142,174,180,182,183,184,185,18	12.15	9	12.14	9	-0.01		

Total 4,092 2,326 3,299 2,359

Total AAOV Difference (MG/YR) 613.94 -793.04
Total AAOV Difference (Percentage) 15% -19%

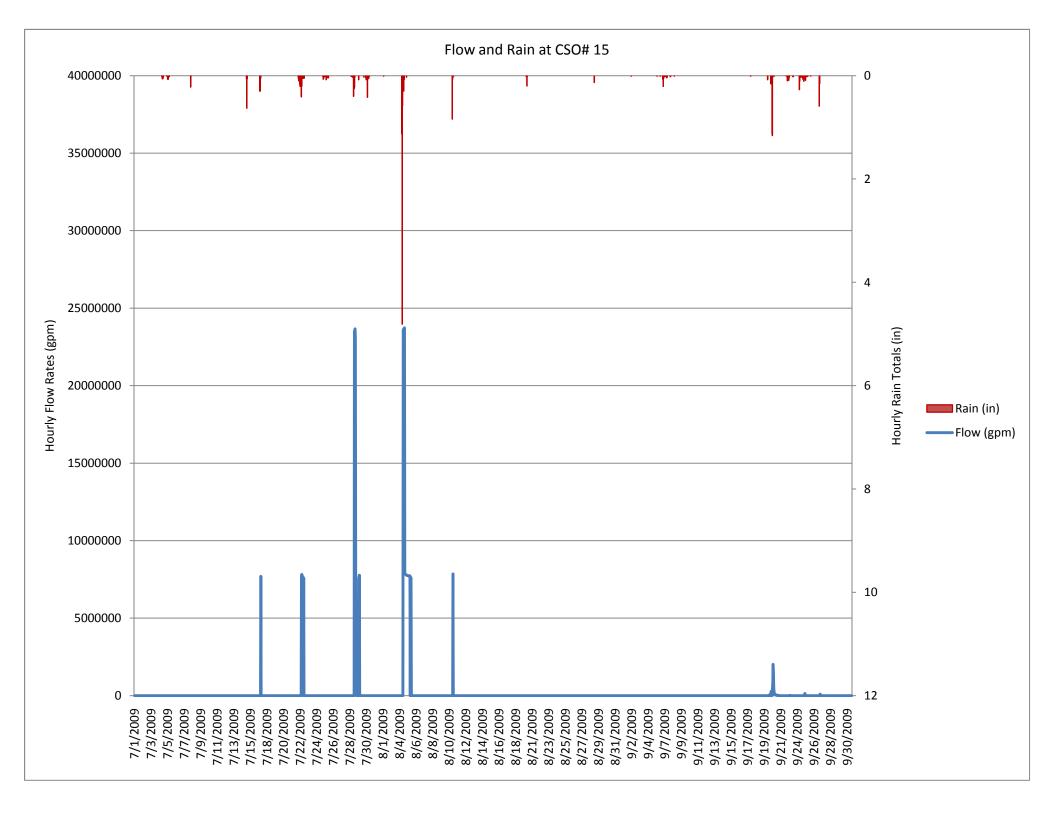
Details of Individual SBR CSOs									
SBR	CSOs 142,174,180,182,183,184,185,186,187,188,205								
142	SBR LOGAN ST @ ST CATHERINE	SF BGC	157.5	0.00	0	0.00	0		
174	SBR GOSS & BOYLE	SF BGC	6.8	37.31	57	37.30	57		
180	SBR ORMSBY AVE RELIEF	SF BGC	221.6	0.27	11	0.27	11		
182	SBR SHELBY & BURNETT	SF BGC	3.6	44.75	44	44.76	44		
183	SBR ALEXANDER & KESWICK	SF BGC	104.8	0.00	0	0.00	0		
184	SBR FETTER & ALEXANDER	SF BGC	108.2	0.43	13	0.43	13		
185	SBR SHELBY & KESWICK	SF BGC	4.7	0.55	7	0.55	7		
186	SBR LOGAN & OAK	SF BGC	7.2	0.00	0	0.00	0		
187	SBR SHELBY & CAMP	SF BGC	13.1	0.00	0	0.00	0		
188	SBR SHELBY & CLAY	SF BGC	11.5	0.03	8	0.03	8		
205	SBR MORGAN STREET RELIEF	SF BGC	9.5	0.00	0	0.00	0		

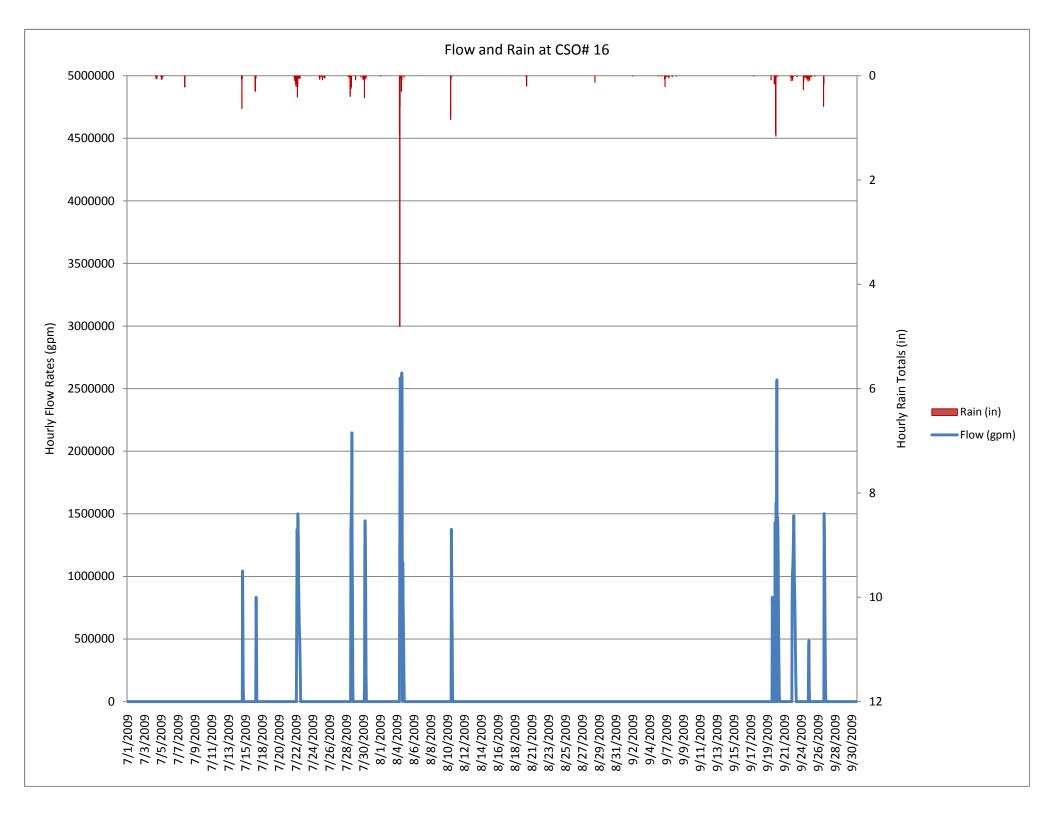
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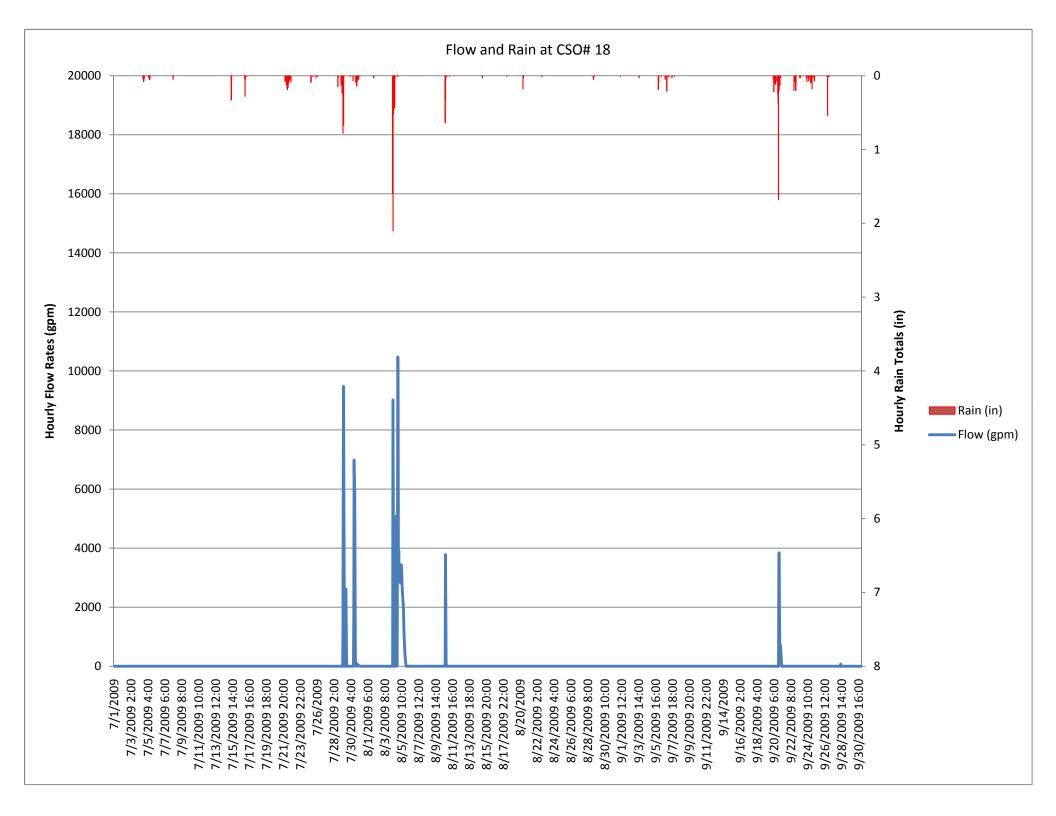


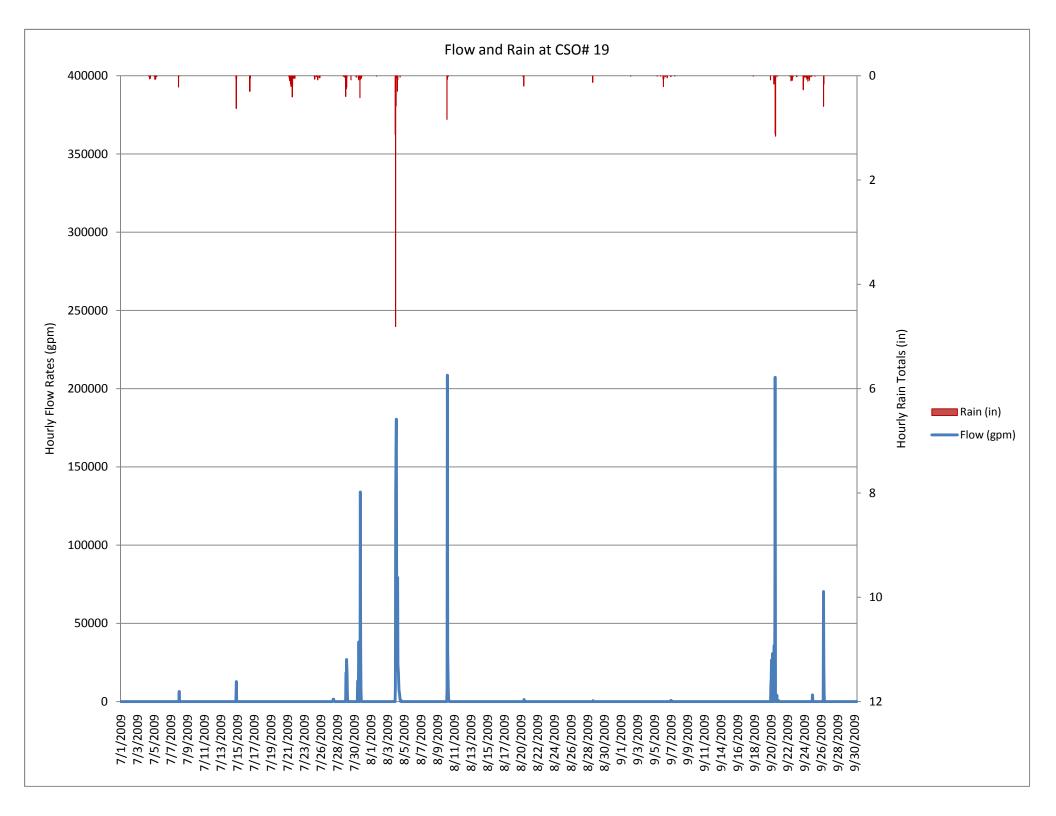
Appendix D - CSO Flow Monitoring Data

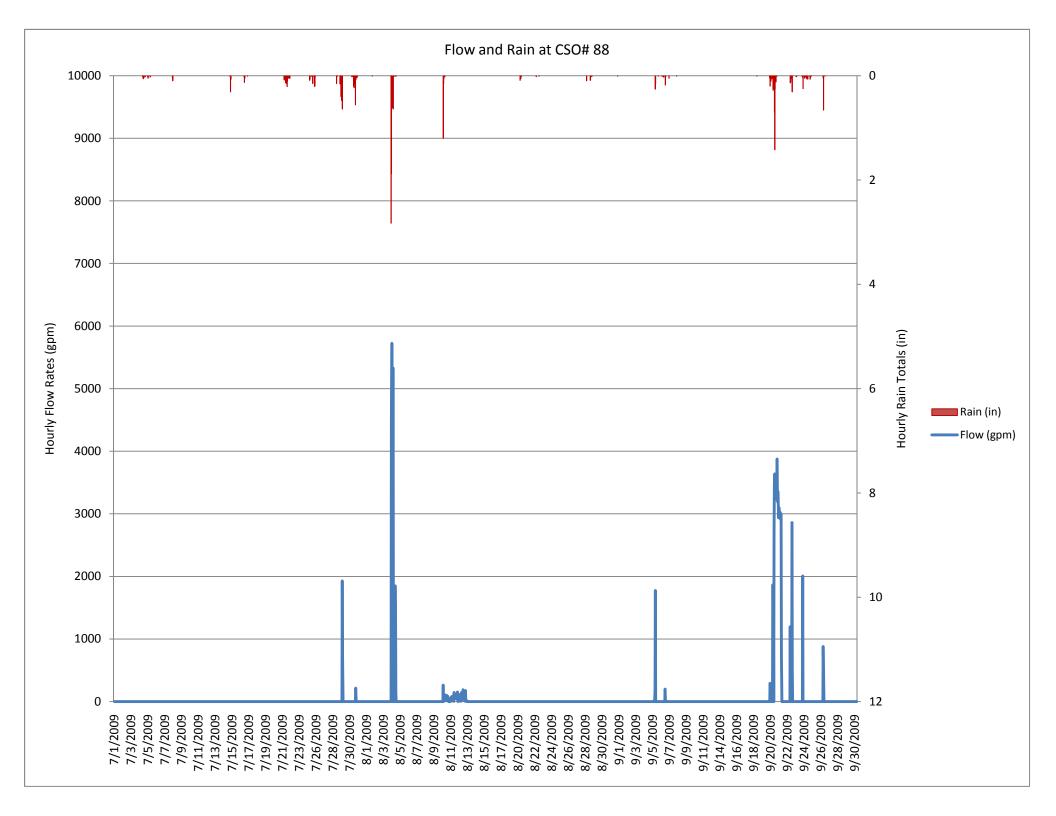


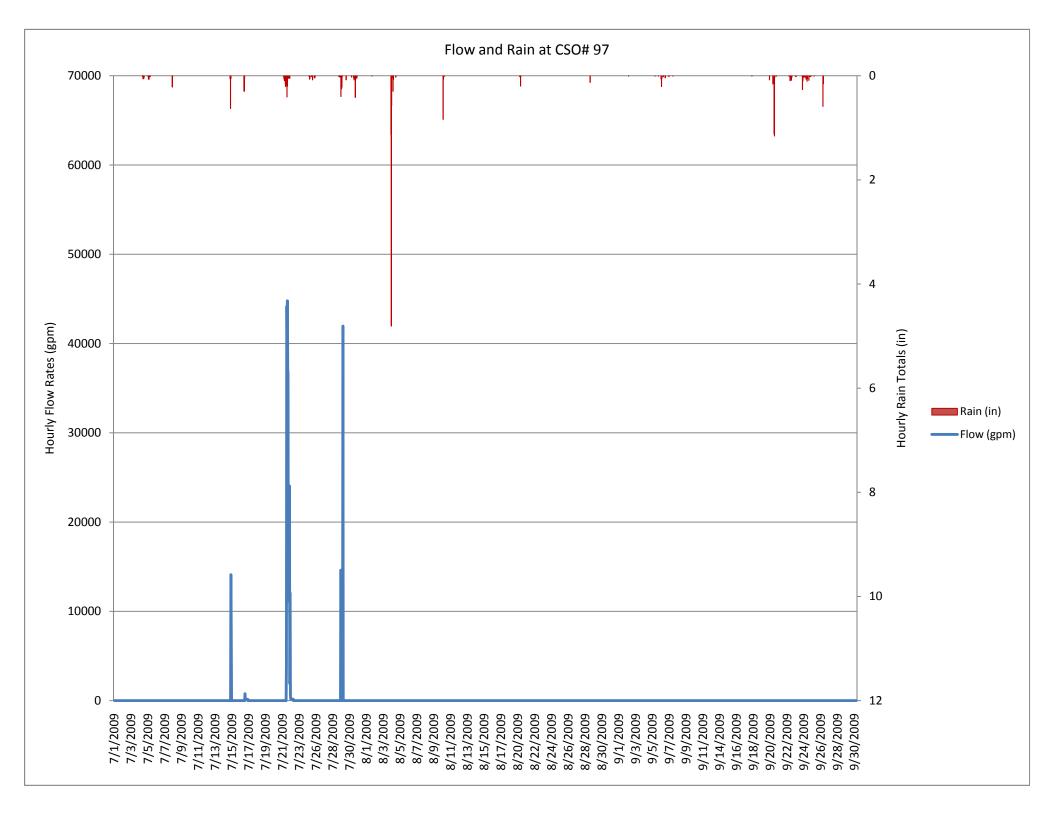


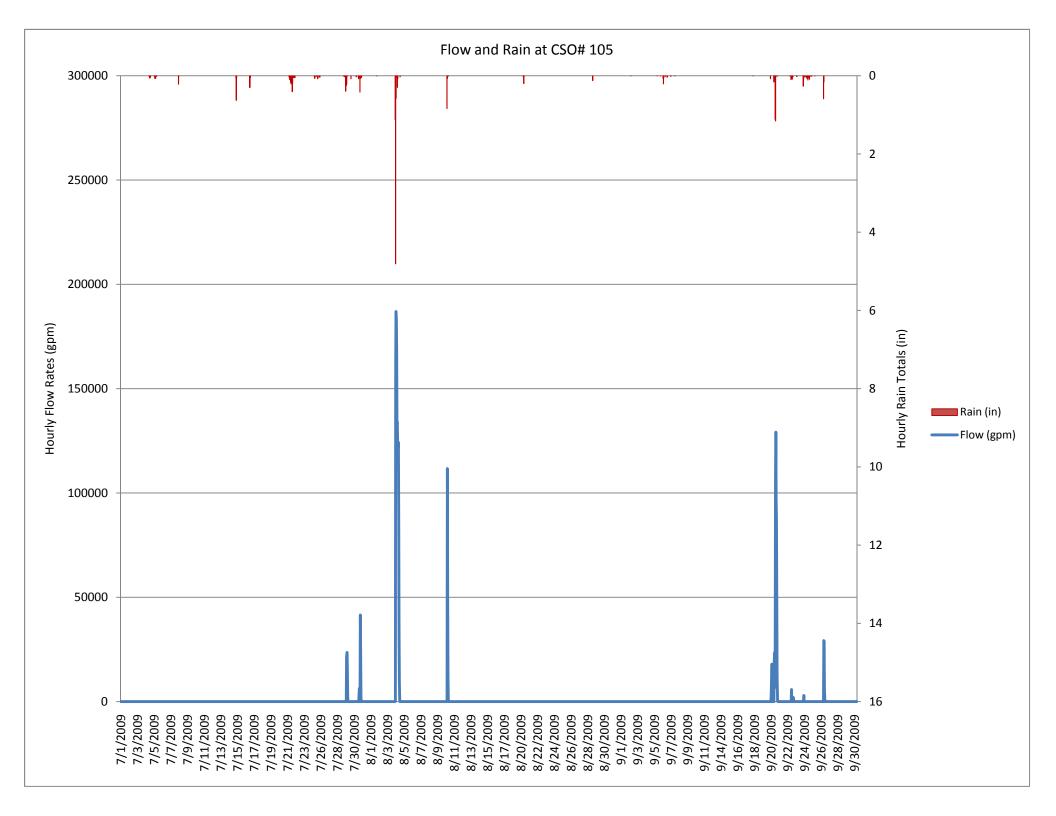


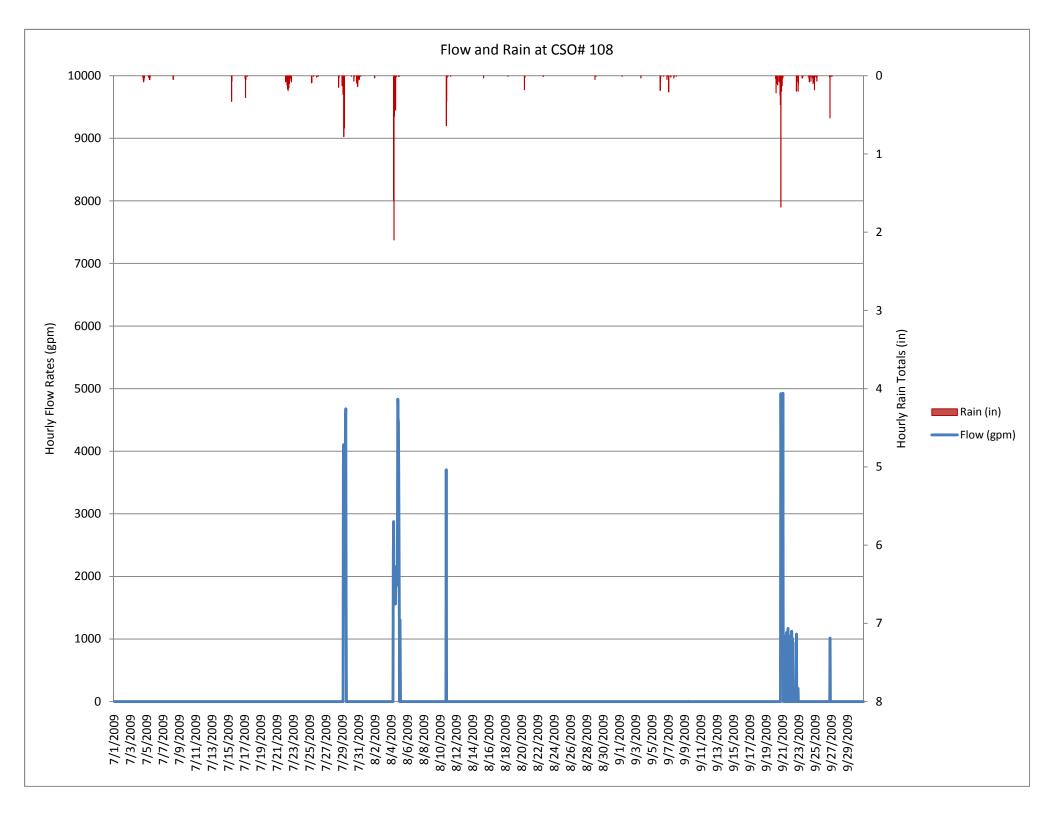


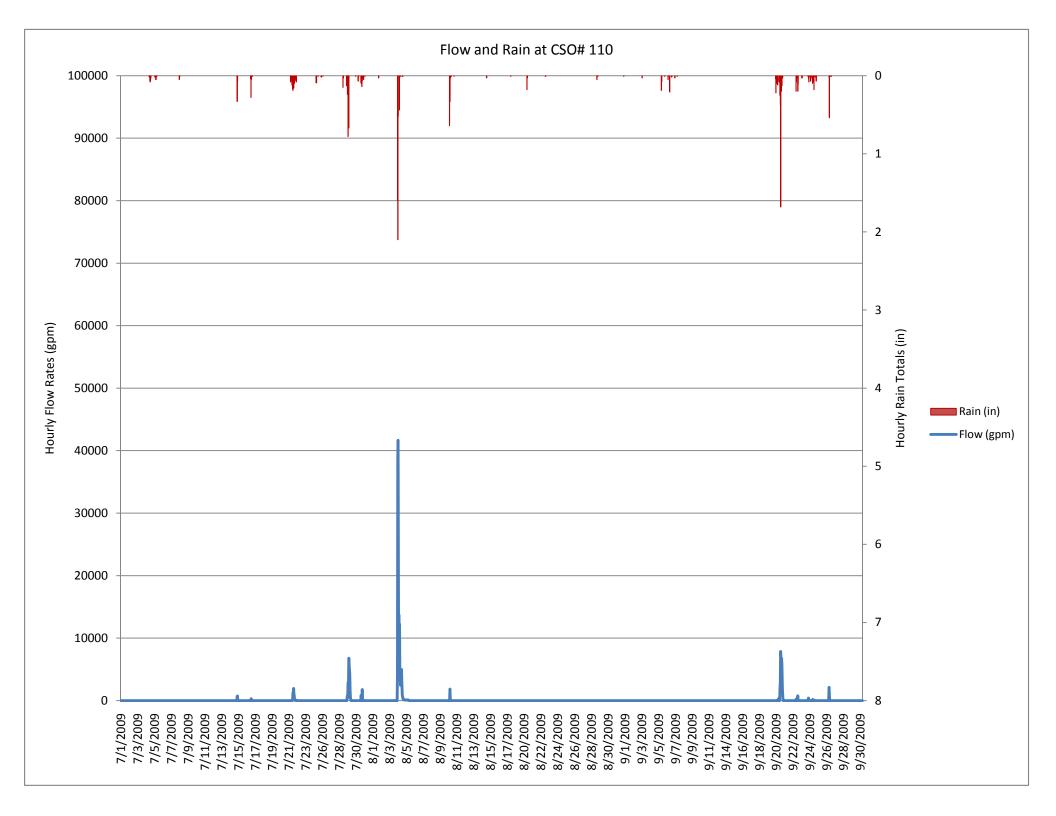


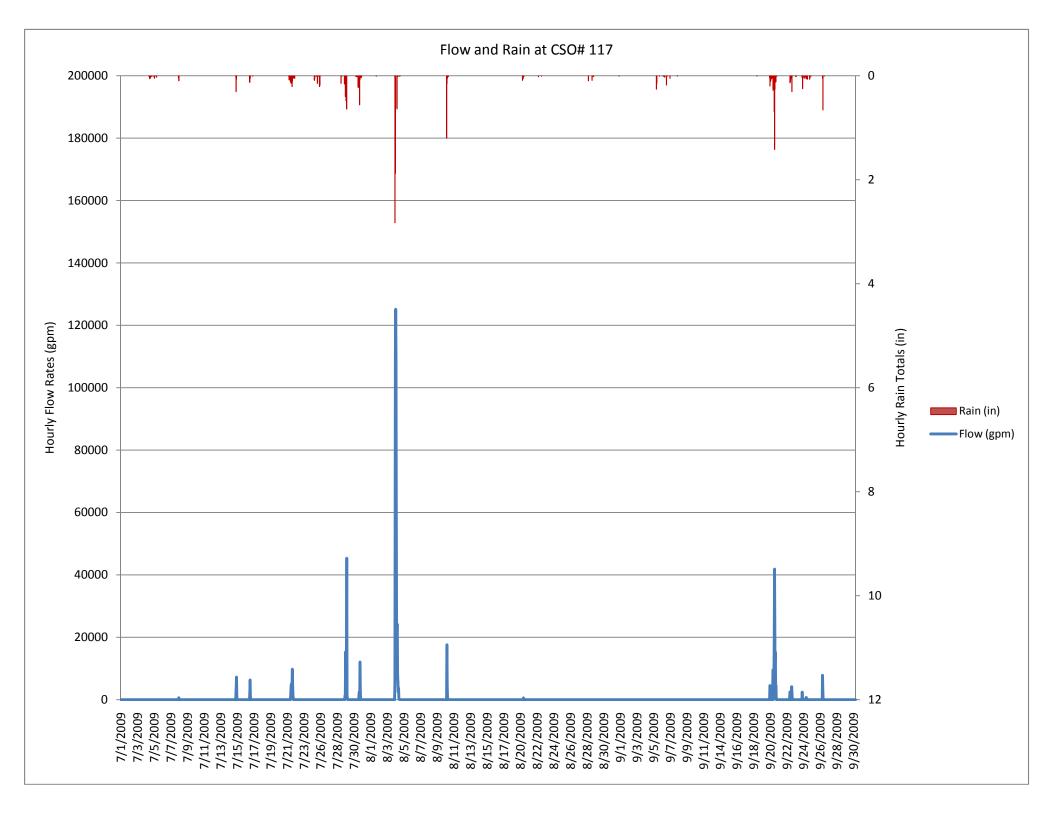


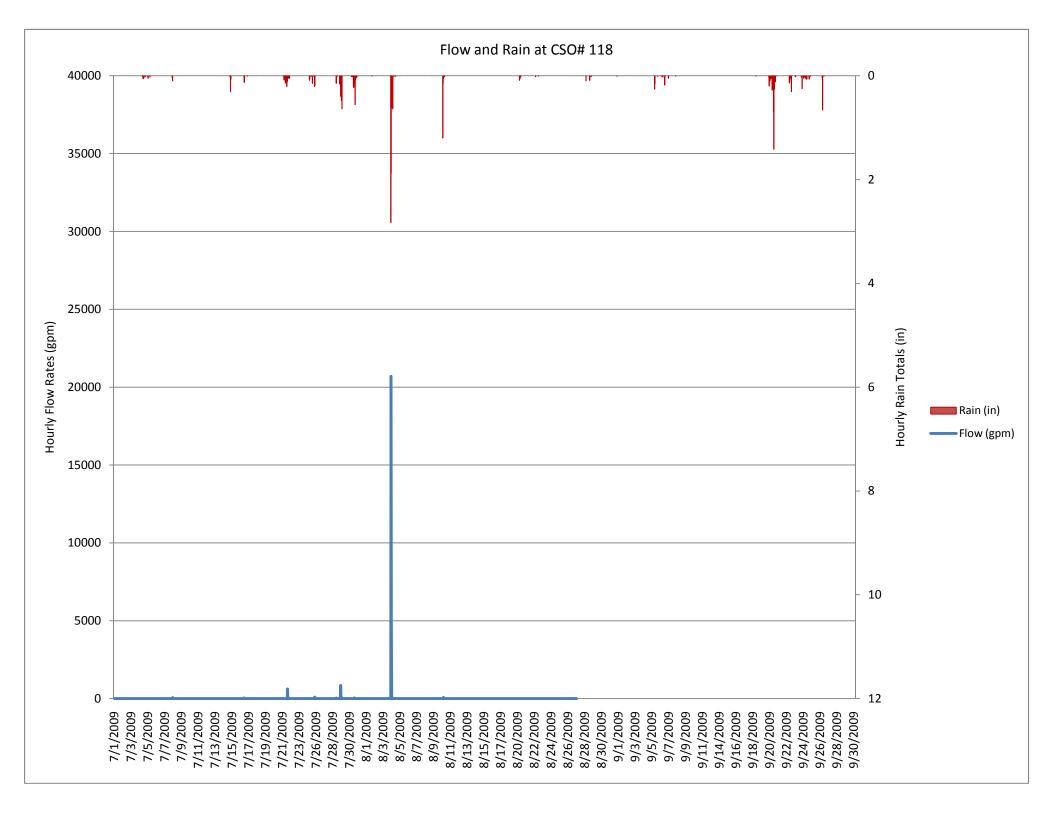


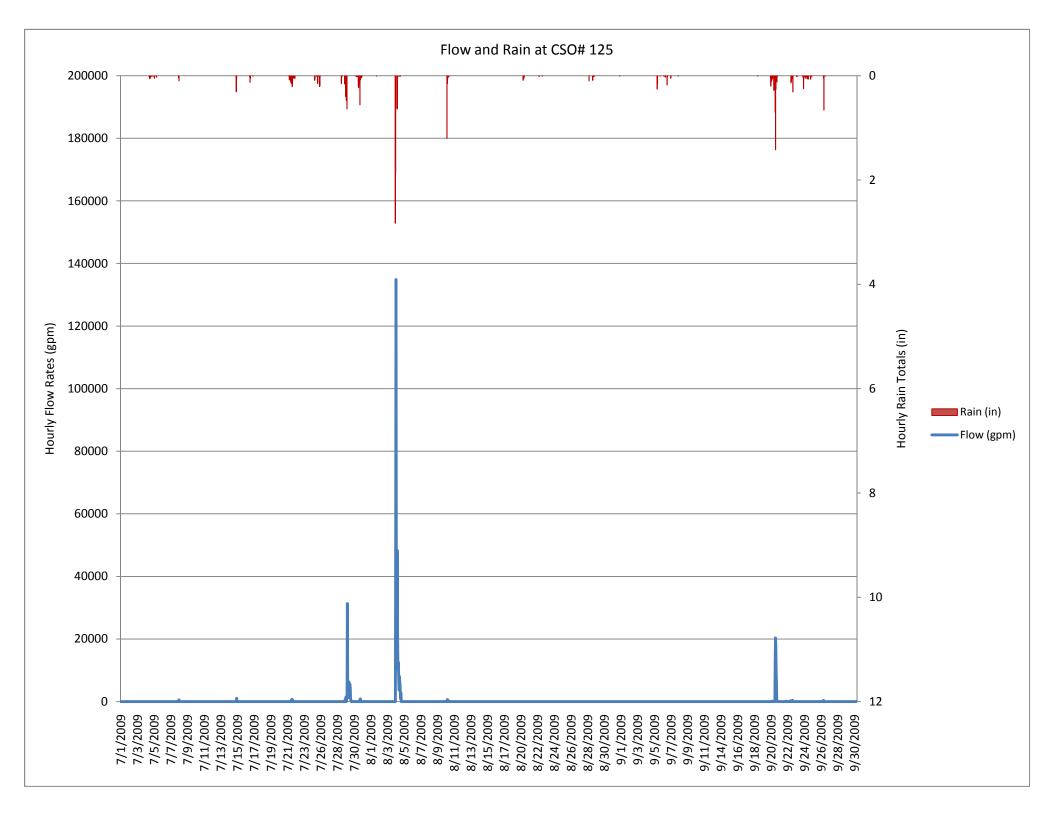


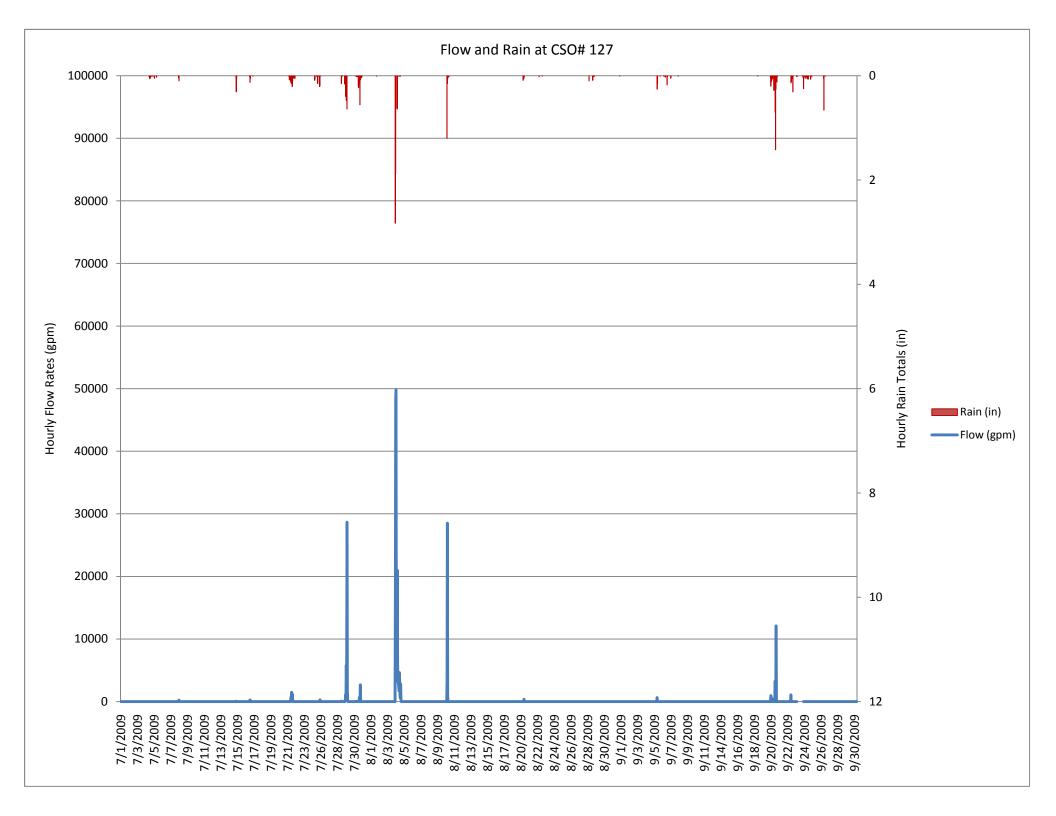


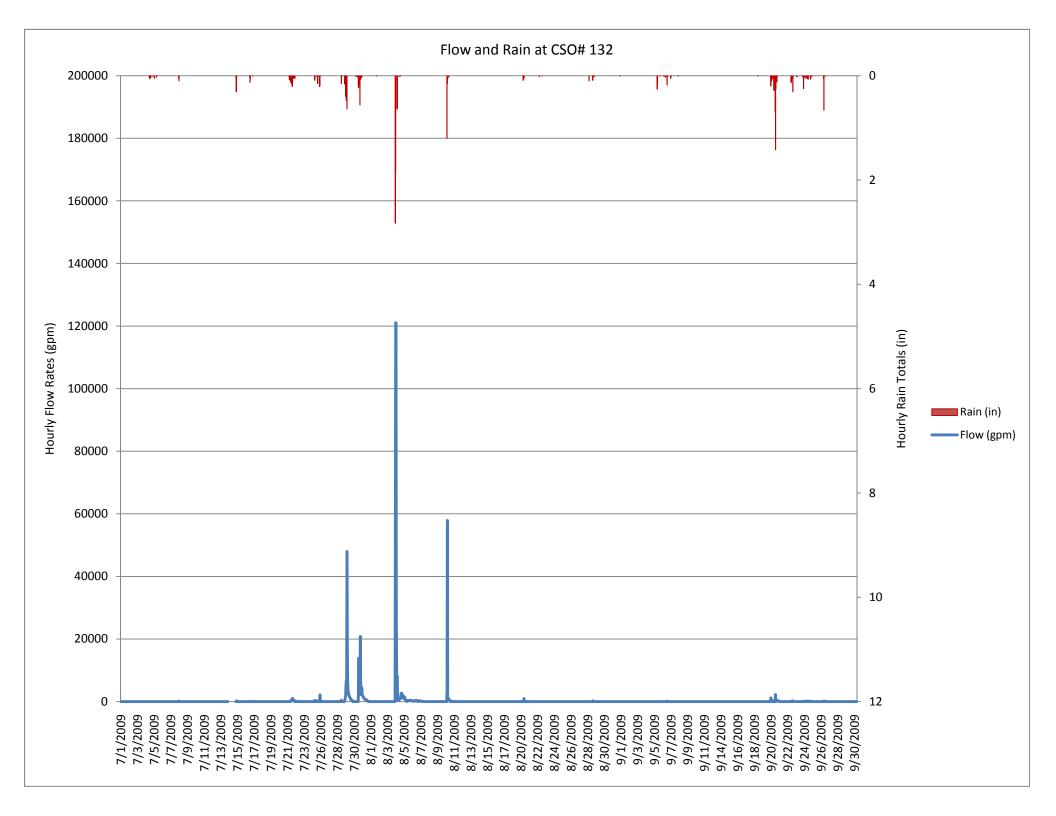


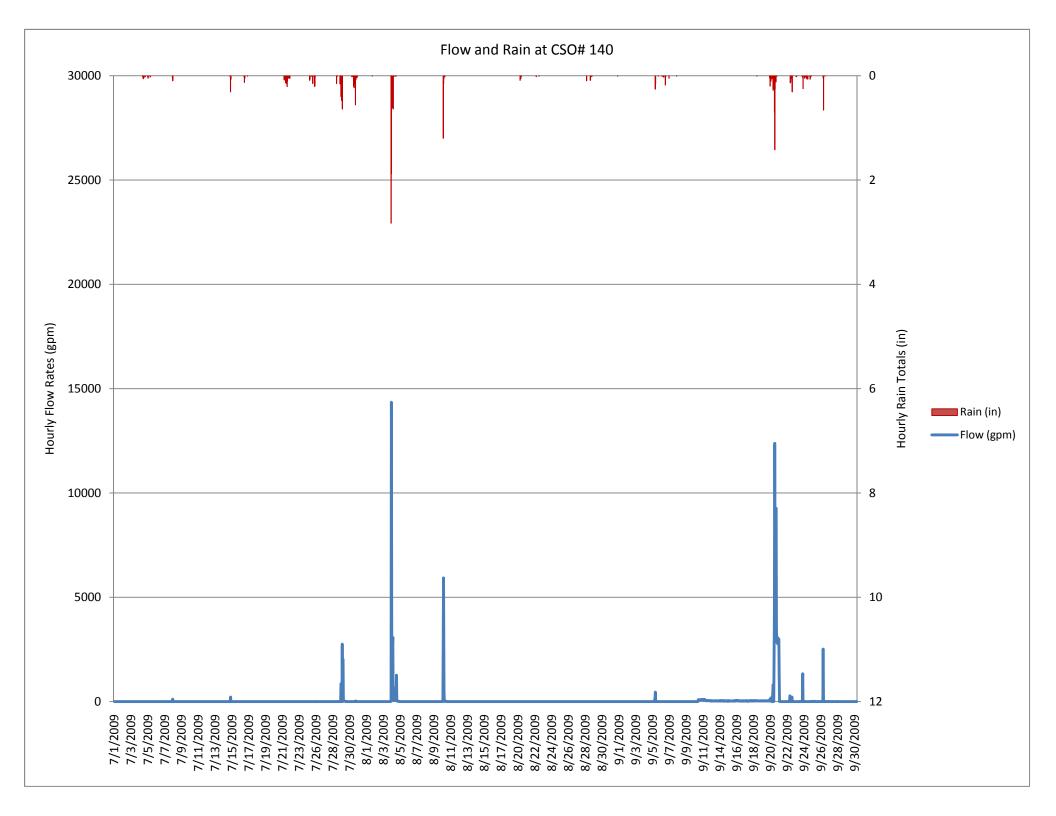


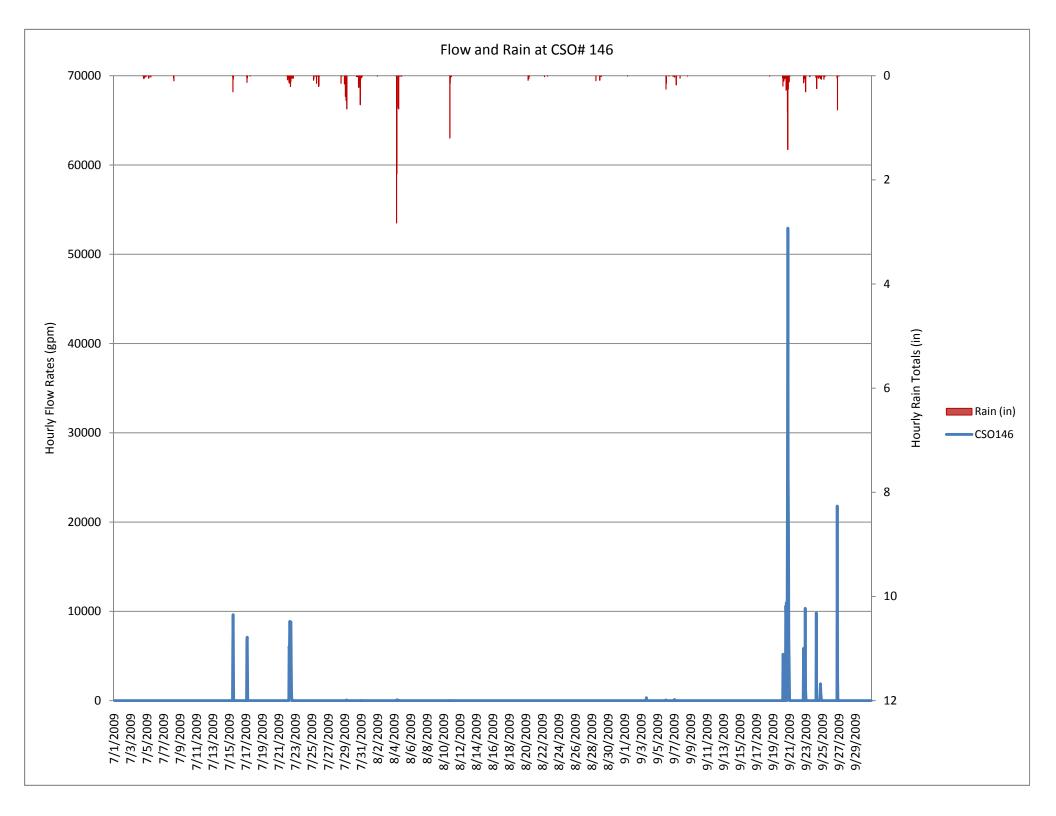


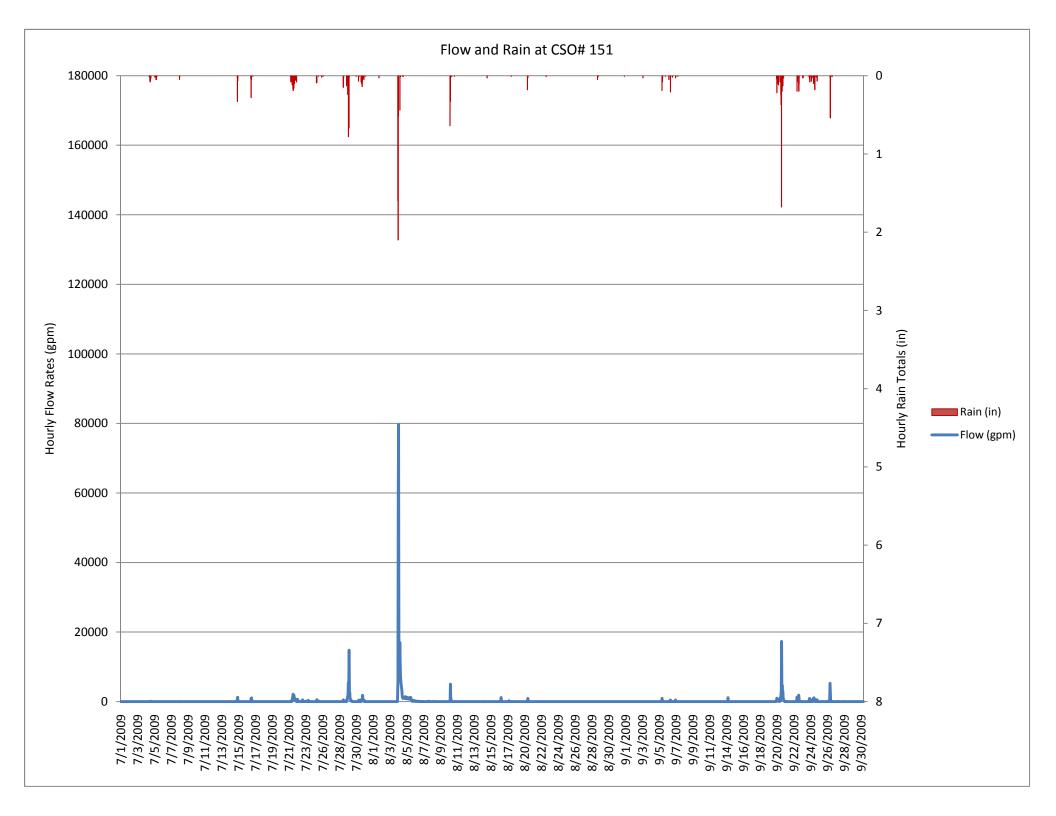


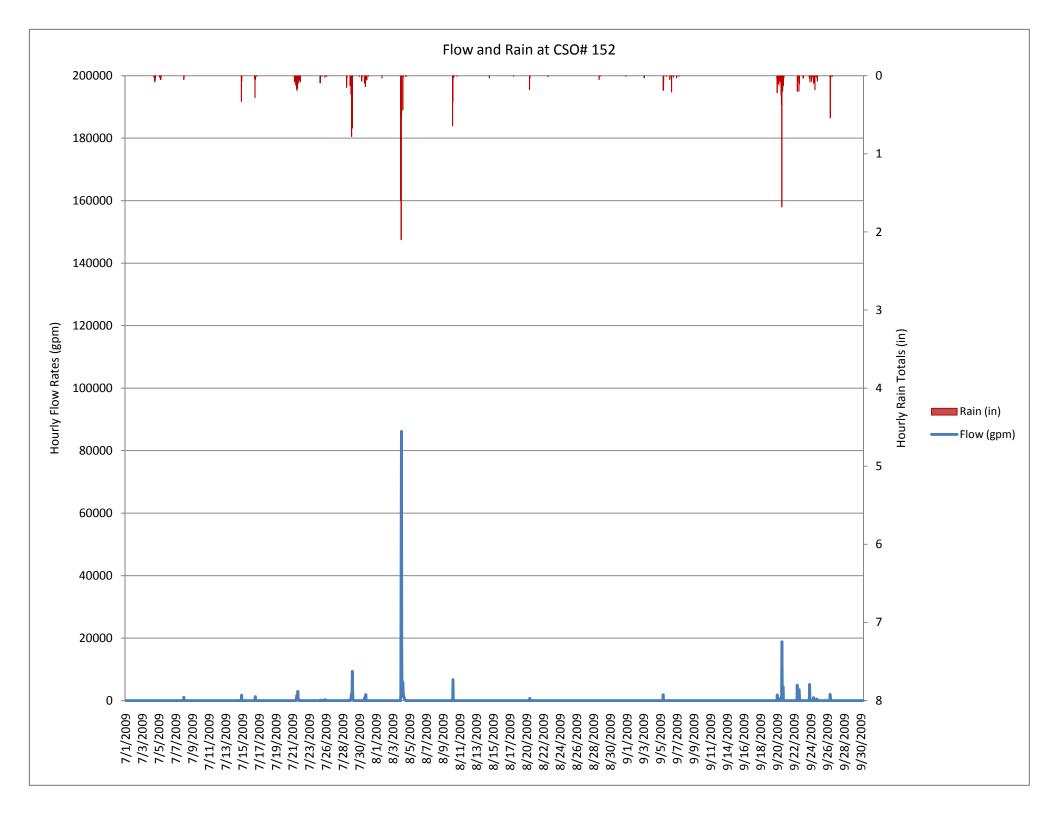


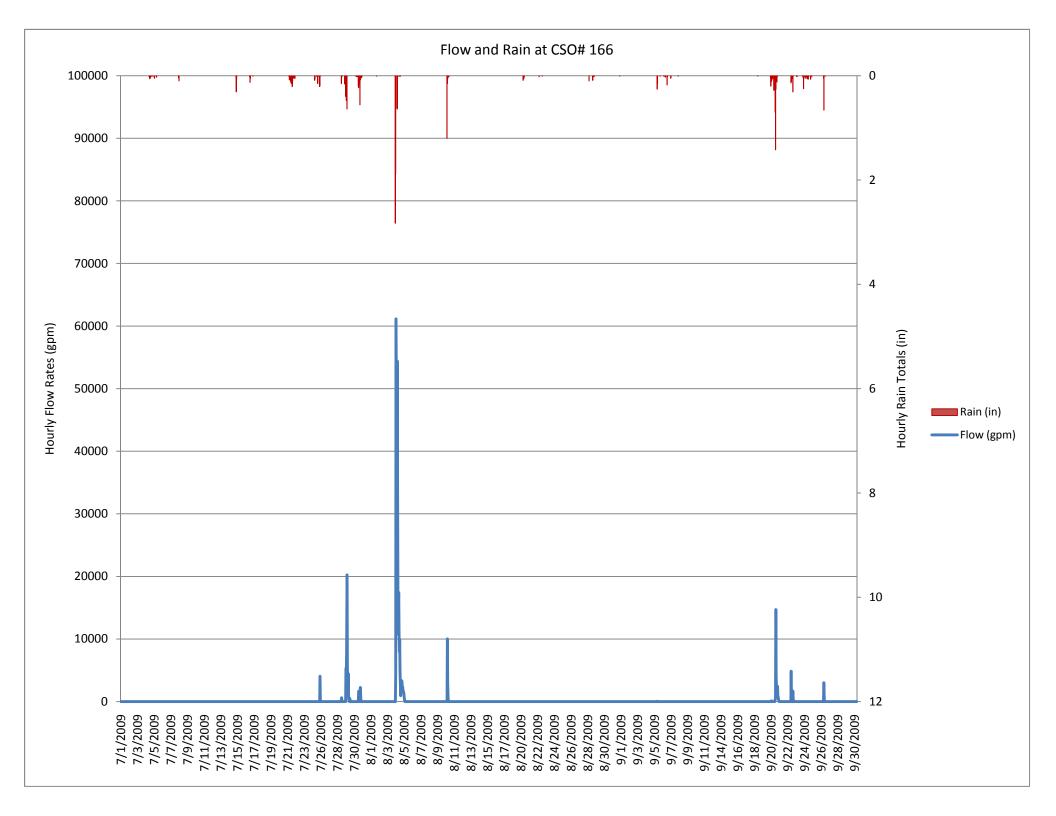


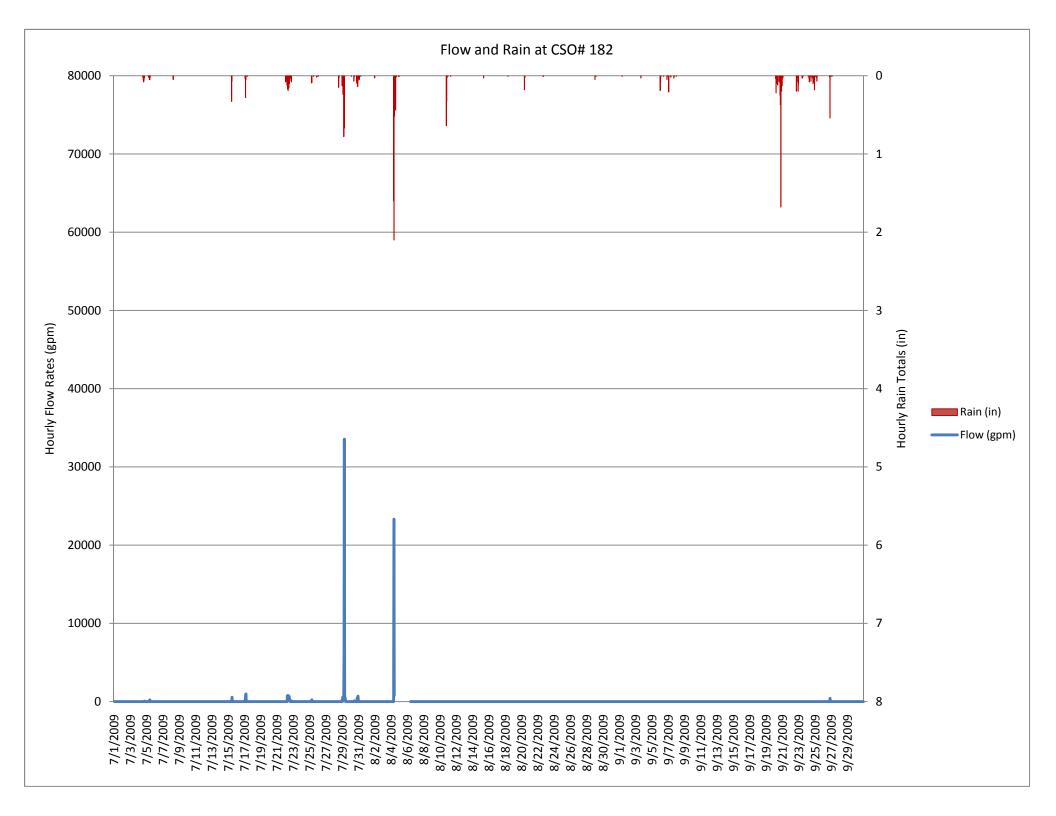


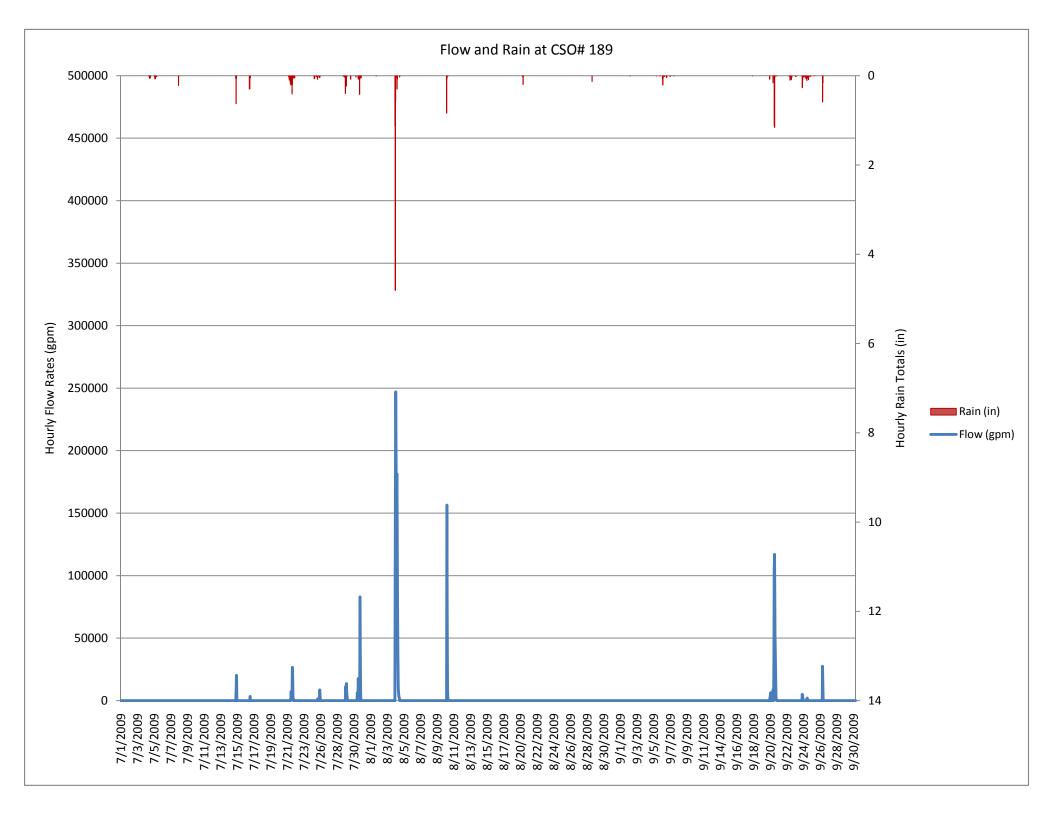


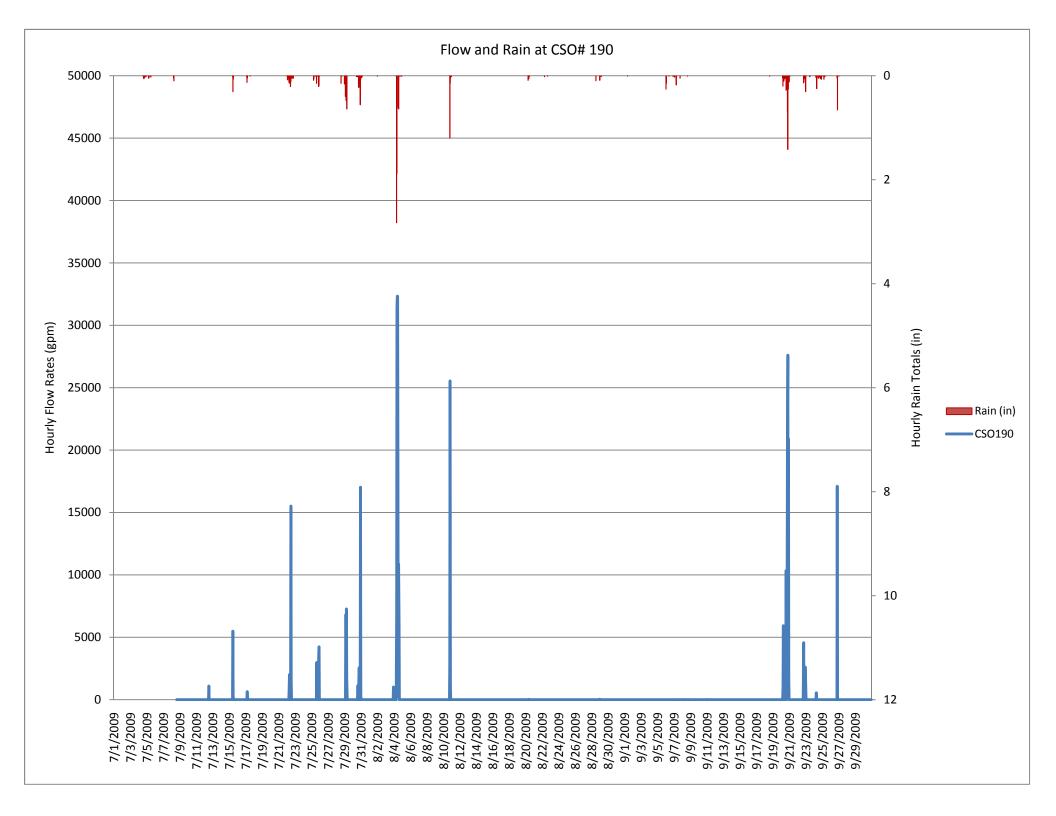


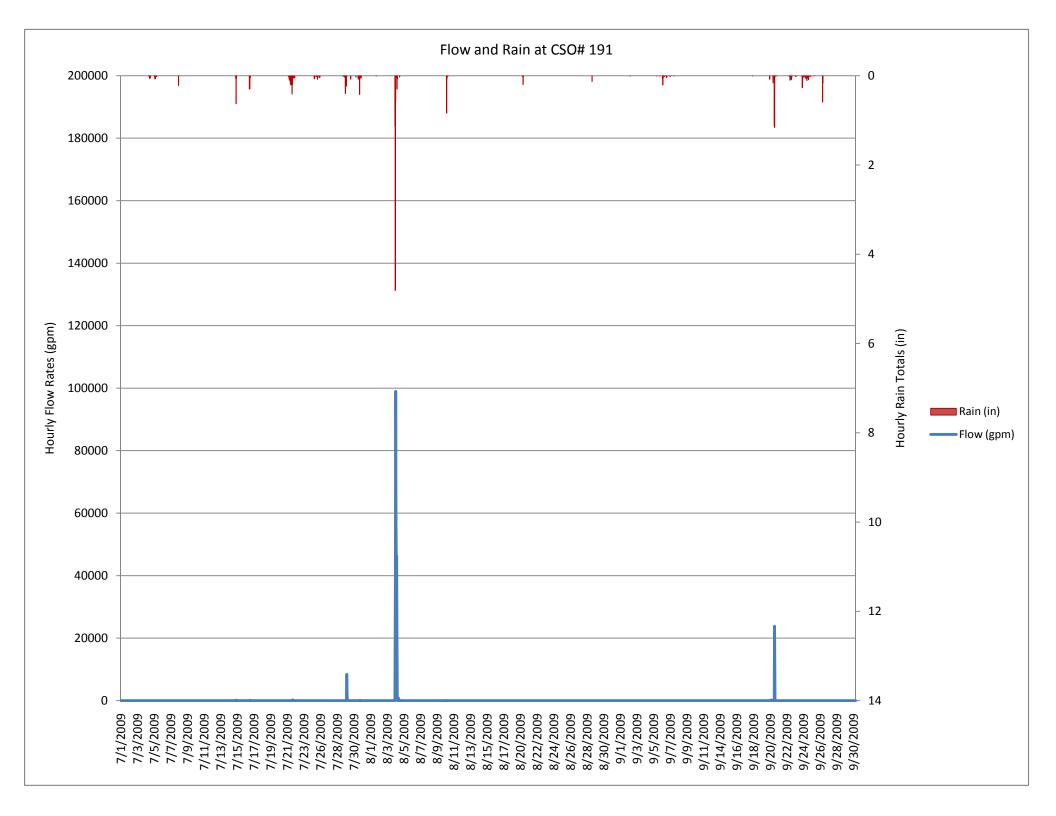


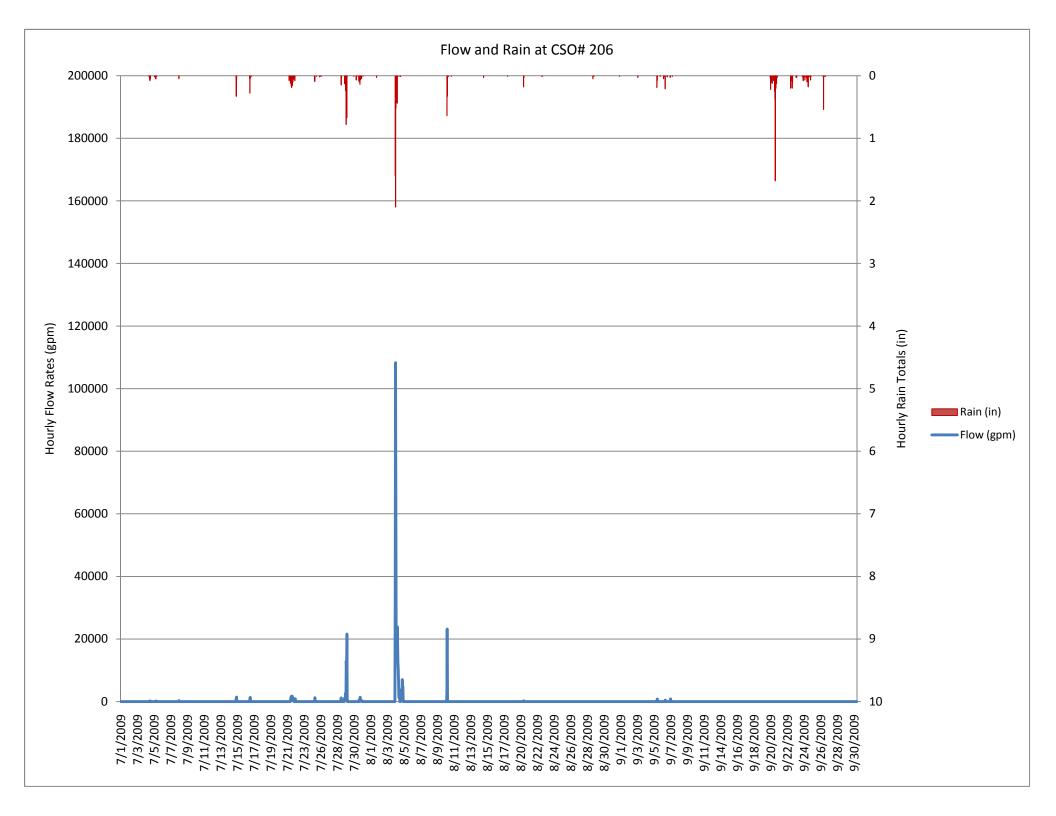


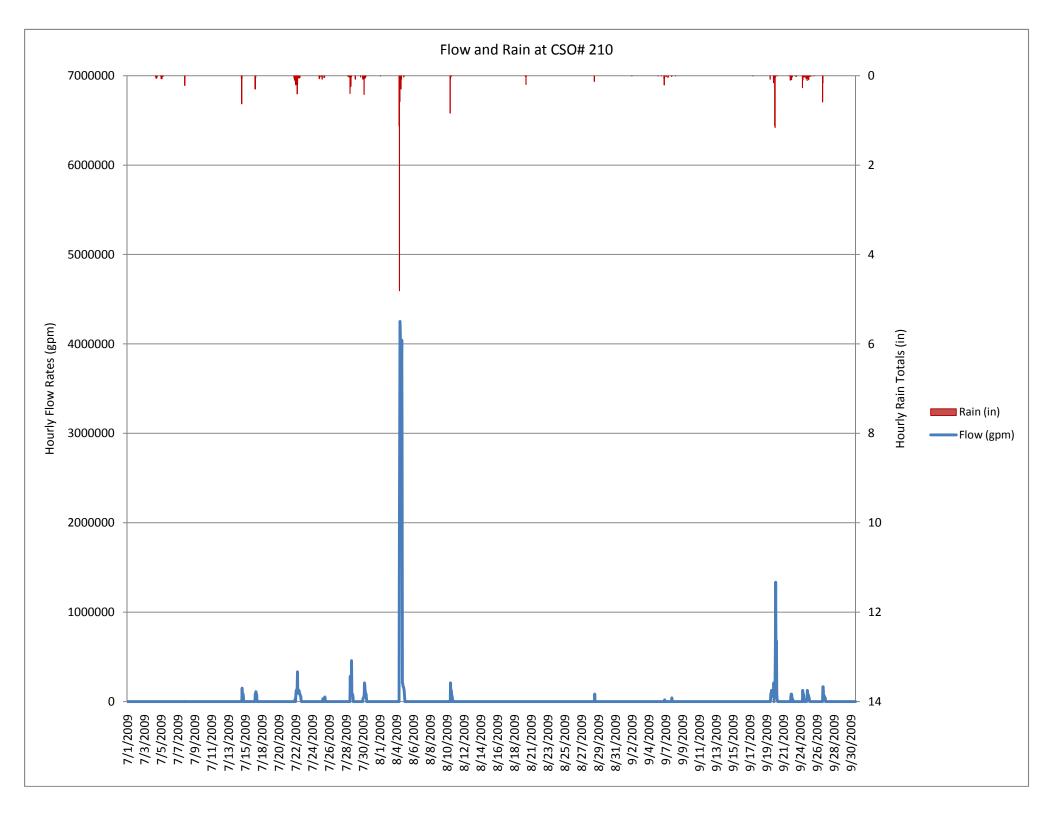


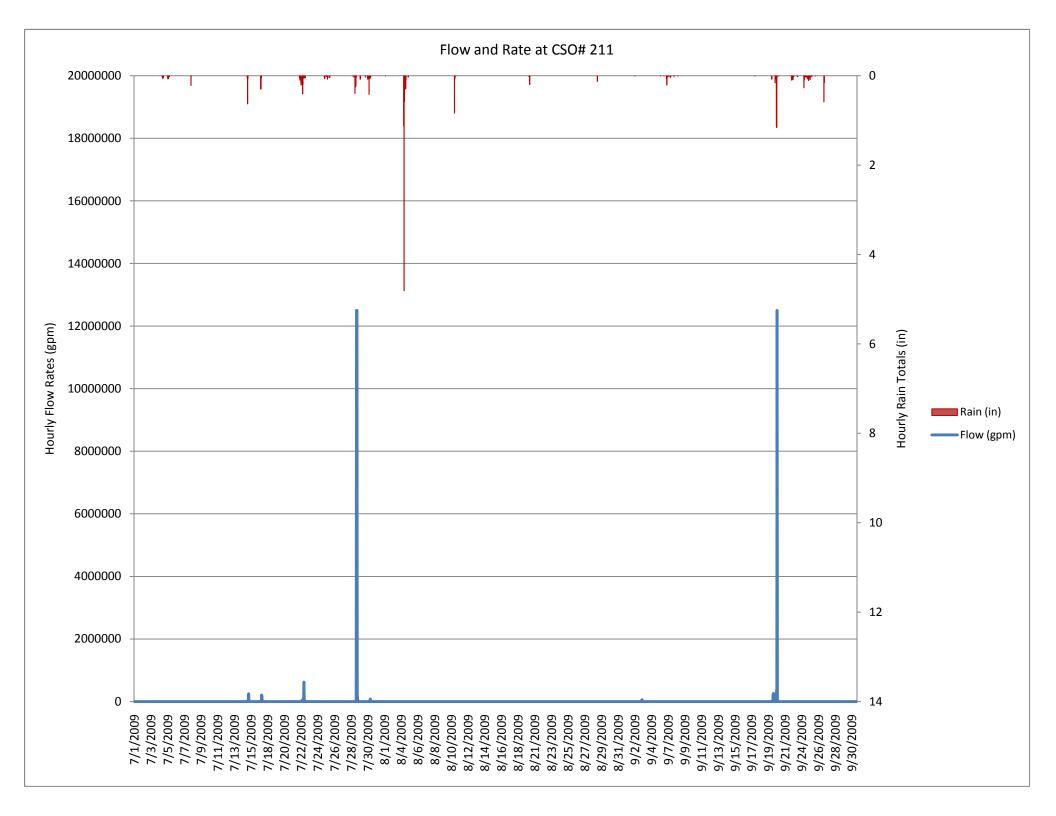














Appendix E – Acronyms



#### **Appendix E - 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
CMOM Capacity Management Operations and Maintenance

CPE Comprehensive Performance Evaluations

CSO Combined Sewer Overflow CSS Combined Sewer System

CSSA Continuing Sewer System Assessment

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

FSE Food Service Establishment

FY Fiscal Year

GCE Grease Control Equipment

GIS Geographical Information System
GLPM Gravity Line Preventive Maintenance

HMI Human Machine Interface

I&FP Infrastructure & Flood Protection (MSD Division)

ICA Interceptor Condition Assessment

ID Identification

I&I Inflow and Infiltration

IMS Information Management SystemIOAP Integrated Overflow Abatement PlanISSDP Interim Sanitary Sewer Discharge Plan

IT Information TechnologyIWD Industrial Waste DepartmentJCPS Jefferson County Public Schools

KDEP Kentucky Department of Environmental Protection KPDES Kentucky Pollutant Discharge Elimination System

KY Kentucky

LE Lateral Extension

LID Low Impact Development

LIMS Laboratory Information Management System

LTC Long Term Control LTCP Long Term Control Plan

LOJIC Louisville and Jefferson County Information Consortium

MDS Main Diversion Structure

#### Appendix E - Acronyms for Project WIN Quarterly Report

MEB Main Equipment Building

MFWTP Morris Forman Wastewater Treatment Plant

MG Million Gallons

MGD Million Gallons Per Day

MO Metro Operations

MOA Memorandum of Agreement
MOR Monthly Operating Report
MOUL Memorandum of Understand

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

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

SSO Sanitary Sewer Overflow SSOP Sanitary Sewer Overflow Plan

SWOR2 Southwestern Outfall Relief - Phase 2

SWPS Southwestern Pump Station
TM Technical Memorandum
TMDL Total Maximum Daily Load

TV Television

UIM Utility Information Management

UK University of Kentucky

USACE US Army Corps of Engineers
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



Appendix F – RTC Report





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

 Period

 From:
 7/1/09

 To:
 9/30/09

Event Number	Wet Weather Event			Rainfall		Wet Weather Storage Volume (MG)								
		End Date Durati		Average*	Max**		SWPS SG		Brady Lake and	Southern	Ohio	Sneads		High River
	Start Date		Duration	TRFD (in)	TRFD (in)	Rain Gauge	Chamber	SWOR2	Executive Inn Storage	Outfall	River Interceptor	Branch	Total	Levels
2009-060	7/15/09 10:55	7/15/09 23:10	12:15	0.469	0.720	TR04	10.95	3.65	1.10	0.00	0.00	0.00	15.70	No
2009-061	7/17/09 3:05	7/17/09 14:05	11:00	0.401	0.650	TR04	12.55	3.90	0.90	0.00	0.00	0.00	17.35	No
2009-062	7/22/09 2:10	7/23/09 9:40	31:30	1.571	1.960	TR04	13.70	4.20	3.30	0.00	0.00	0.00	21.20	No
2009-063	7/25/09 5:35	7/26/09 7:30	25:55	0.441	0.750	TR05	0.00	5.55	0.15	0.00	0.00	0.00	5.70	No
2009-064	7/28/09 13:30	8/1/09 1:25	83:55	3.154	4.160	TR05	26.80	8.25	10.95	0.00	0.00	0.00	46.00	No
2009-066	8/4/09 8:10	8/6/09 20:55	60:45	4.691	6.970	TR04	29.70	0.00	3.55	0.00	0.00	0.00	33.25	No
2009-070	8/20/09 7:45	8/20/09 18:10	10:25	0.314	0.580	TR11	4.95	0.20	0.20	0.00	0.00	0.00	5.35	No
2009-078	9/20/09 5:35	9/22/09 18:25	60:50	2.733	3.590	TR05	13.15	0.00	5.20	0.00	0.00	1.55	19.90	No
Total							111.80	25.75	25.35	0.00	0.00	1.55	164.45	

<sup>\*</sup>Average Total Rainfall Depth Based on Rain Gauge TR04, TR05, TR11, TR12, TR13, TR14 and TR15

**Printed on:** 10/08/2009 11:54 am Page 1 of 1

<sup>\*\*</sup>Maximum Total Rainfall Depth Measurement and its Location during the Wet Weather Event



Appendix G – Phosphorus Data



# **Ken Carla Wastewater Treatment Plant KY0022497 Quarterly Effluent Total Phosphorus Results**

SAMPLE DATE	TEST METHOD	PARAMETER	RESULT	UNIT	LABORATORY
7/2/2009	EPA 200.7	Total Phosphorous via ICP	0.324	mg/l	MSD
	EPA 200.7	Total Phosphorous via ICP		mg/l	MSD
	EPA 200.7	Total Phosphorous via ICP		mg/l	MSD
	EPA 200.7	Total Phosphorous via ICP		mg/l	MSD
		Monthly Average	0.32	mg/l	
8/5/2009	EPA 200.7	Total Phosphorous via ICP	0.06	mg/l	MSD
	EPA 200.7	Total Phosphorous via ICP		mg/l	MSD
	EPA 200.7	Total Phosphorous via ICP		mg/l	MSD
	EPA 200.7	Total Phosphorous via ICP		mg/l	MSD
		Monthly Average	0.06	mg/l	
9/1/2009	EPA 200.7	Total Phosphorous via ICP	0.612	mg/l	MSD
	EPA 200.7	Total Phosphorous via ICP		mg/l	MSD
	EPA 200.7	Total Phosphorous via ICP		mg/l	MSD
	EPA 200.7	Total Phosphorous via ICP		mg/l	MSD
		Monthly Average	0.61	mg/l	

## Timberlake Wastewater Treatment Plant KY0043087 Quarterly Effluent Total Phosphorus Results

SAMPLE DATE	TEST METHOD	PARAMETER	RESULT	UNIT	LABORATORY
7/2/2009	EPA 200.7	Total Phosphorous via ICP	0.595	mg/l	MSD
7/8/2009	EPA 200.7	Total Phosphorous via ICP	0.414	mg/l	MSD
7/15/2009	EPA 200.7	Total Phosphorous via ICP	0.283	mg/l	MSD
7/22/2009	EPA 200.7	Total Phosphorous via ICP	0.338	mg/l	MSD
7/29/2009	EPA 200.7	Total Phosphorous via ICP	0.628	mg/l	MSD
		Monthly Average	0.45	mg/l	
8/5/2009	EPA 200.7	Total Phosphorous via ICP	0.347	mg/l	MSD
8/12/2009	EPA 200.7	Total Phosphorous via ICP	0.365	mg/l	MSD
8/19/2009	EPA 200.7	Total Phosphorous via ICP	0.402	mg/l	MSD
8/26/2009	EPA 200.7	Total Phosphorous via ICP	0.386	mg/l	MSD
		Monthly Average	0.38	mg/l	
9/1/2009	EPA 200.7	Total Phosphorous via ICP	0.353	mg/l	MSD
9/8/2009	EPA 200.7	Total Phosphorous via ICP	0.399	mg/l	MSD
9/15/2009	EPA 200.7	Total Phosphorous via ICP	0.437	mg/l	MSD
9/22/2009	EPA 200.7	Total Phosphorous via ICP	0.359	mg/l	MSD
9/30/2009	EPA 200.7	Total Phosphorous via ICP	0.401	mg/l	MSD
		Monthly Average	0.39	mg/l	

# Hunting Creek South Wastewater Treatment Plant KY0029114 Quarterly Effluent Total Phosphorus Results

SAMPLE DATE	TEST METHOD	PARAMETER	RESULT	UNIT	LABORATORY
7/2/2009	EPA 200.7	Total Phosphorous via ICP	0.416	mg/l	MSD
7/8/2009	EPA 200.7	Total Phosphorous via ICP	0.162	mg/l	MSD
7/15/2009	EPA 200.7	Total Phosphorous via ICP	0.505	mg/l	MSD
7/22/2009	EPA 200.7	Total Phosphorous via ICP	0.348	mg/l	MSD
7/29/2009	EPA 200.7	Total Phosphorous via ICP	0.595	mg/l	MSD
		Monthly Average	0.41	mg/l	
8/5/2009	EPA 200.7	Total Phosphorous via ICP	0.267	mg/l	MSD
8/12/2009	EPA 200.7	Total Phosphorous via ICP	0.247	mg/l	MSD
8/19/2009	EPA 200.7	Total Phosphorous via ICP	0.588	mg/l	MSD
8/26/2009	EPA 200.7	Total Phosphorous via ICP	0.354	mg/l	MSD
		Monthly Average	0.36	mg/l	
9/1/2009	EPA 200.7	Total Phosphorous via ICP	0.424	mg/l	MSD
9/8/2009	EPA 200.7	Total Phosphorous via ICP	0.372	mg/l	MSD
9/15/2009	EPA 200.7	Total Phosphorous via ICP	0.538	mg/l	MSD
9/22/2009	EPA 200.7	Total Phosphorous via ICP	0.619	mg/l	MSD
9/30/2009	EPA 200.7	Total Phosphorous via ICP	0.156	mg/l	MSD
		Monthly Average	0.42	mg/l	

### North Hunting Creek Wastewater Treatment Plant KY0029106 Quarterly Effluent Total Phosphorus Results

SAMPLE DATE	TEST METHOD	PARAMETER	RESULT	UNIT	LABORATORY
7/2/2009	EPA 200.7	Total Phosphorous via ICP	0.397	mg/l	MSD
7/8/2009	EPA 200.7	Total Phosphorous via ICP	0.408	mg/l	MSD
7/15/2009	EPA 200.7	Total Phosphorous via ICP	0.517	mg/l	MSD
7/22/2009	EPA 200.7	Total Phosphorous via ICP	0.671	mg/l	MSD
7/29/2009	EPA 200.7	Total Phosphorous via ICP	0.751	mg/l	MSD
		Monthly Average	0.55	mg/l	
8/5/2009	EPA 200.7	Total Phosphorous via ICP	0.327	mg/l	MSD
8/12/2009	EPA 200.7	Total Phosphorous via ICP	0.459	mg/l	MSD
8/19/2009	EPA 200.7	Total Phosphorous via ICP	0.351	mg/l	MSD
8/26/2009	EPA 200.7	Total Phosphorous via ICP	0.564	mg/l	MSD
		Monthly Average	0.43	mg/l	
9/1/2009	EPA 200.7	Total Phosphorous via ICP	0.419	mg/l	MSD
9/8/2009	EPA 200.7	Total Phosphorous via ICP	0.71	mg/l	MSD
9/15/2009	EPA 200.7	Total Phosphorous via ICP	0.733	mg/l	MSD
9/22/2009	EPA 200.7	Total Phosphorous via ICP	0.557	mg/l	MSD
9/30/2009	EPA 200.7	Total Phosphorous via ICP	0.775	mg/l	MSD
		Monthly Average	0.64	mg/l	

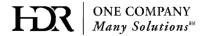
## Shadow Wood Wastewater Treatment Plant KY0031810 Quarterly Effluent Total Phosphorus Results

SAMPLE DATE	TEST METHOD	PARAMETER	RESULT	UNIT	LABORATORY
7/2/2009	EPA 200.7	Total Phosphorous via ICP	0.537	mg/l	MSD
7/8/2009	EPA 200.7	Total Phosphorous via ICP	0.519	mg/l	MSD
7/15/2009	EPA 200.7	Total Phosphorous via ICP	0.708	mg/l	MSD
7/22/2009	EPA 200.7	Total Phosphorous via ICP	0.945	mg/l	MSD
7/29/2009	EPA 200.7	Total Phosphorous via ICP	0.532	mg/l	MSD
		Monthly Average	0.65	mg/l	
8/5/2009	EPA 200.7	Total Phosphorous via ICP	0.237	mg/l	MSD
8/12/2009	EPA 200.7	Total Phosphorous via ICP	0.288	mg/l	MSD
8/19/2009	EPA 200.7	Total Phosphorous via ICP	0.343	mg/l	MSD
8/26/2009	EPA 200.7	Total Phosphorous via ICP	0.33	mg/l	MSD
		Monthly Average	0.30	mg/l	
9/1/2009	EPA 200.7	Total Phosphorous via ICP	0.354	mg/l	MSD
9/8/2009	EPA 200.7	Total Phosphorous via ICP	0.295	mg/l	MSD
9/15/2009	EPA 200.7	Total Phosphorous via ICP	0.364	mg/l	MSD
9/22/2009	EPA 200.7	Total Phosphorous via ICP	0.522	mg/l	MSD
9/30/2009	EPA 200.7	Total Phosphorous via ICP	0.284	mg/l	MSD
		Monthly Average	0.36	mg/l	



Appendix H – Meeting Minutes





#### **Meeting Minutes**

Subject: USACE Flood Pump Station Meeting	
Client: Louisville MSD	
Project: Flood Pump Station Evaluations	Project No: CON0043396
Meeting Date: August 10, 2009	Meeting Location: USACE Offices
Notes by: Gary Boblitt, HDR	

A coordination meeting was held between the USACE and MSD at the USACE offices on the date indicated above. Those in attendance were as follows:

Dan Frank, USACE Richard Pruitt, USACE John Loechle, MSD Derek Guthrie, HDR Mark Robertson, USACE Angela Akridge, MSD Roy Flynn, MSD Gary Boblitt, HDR

The purpose of the meeting was to provide the USACE an understanding of MSD's obligation under the US EPA Consent Decree. Specifically that obligation is to eliminate DWOs at the USACE's Flood Pump Stations (FPSs) located within the combined sewer system. MSD is required to send quarterly and annual reports to the US EPA to document their progress towards compliance with this obligation. MSD is requesting a commitment from USACE that they can meet the project schedules imposed by the US EPA. Dan Frank with the USACE commented that the USACE representatives in attendance at the meeting will commit the USACE to work with MSD to meet the project schedules.

It was explained that there were 10 FPSs requiring some work to meet the US EPA mandate. Five (5) projects require major physical and operational modifications to meet the required mandate and have specific completion dates outlined in the IOAP. These five (5) FPSs and their associated completion dates are as follows:

- 34<sup>th</sup> Street FPS 12/31/12
- 4<sup>th</sup> Street FPS 12/31/12
- 27<sup>th</sup> Street FPS 6/30/13
- Shawnee FPS 6/30/13
- 17<sup>th</sup> Street FPS 12/31/14

A draft schedule of the five projects outlined above is attached.

Five (5) projects require only minor physical modifications and/or operational changes to meet the mandate outlined in the Consent Decree. The USACE indicated that MSD could proceed with these modifications without further reviews and approvals by the USACE since they did not impact the flood protection functions of the facilities. These five (5) FPSs are as follows:

- 5<sup>th</sup> Street FPS
- 10<sup>th</sup> Street FPS
- Starkey FPS
- Western FPS
- Beargrass Creek FPS

A Powerpoint Presentation was used to provide information on the proposed improvements associated with each of the 10 FPSs outlined above. A copy of the Powerpoint presentation is attached.

The 4<sup>th</sup> Street and 34<sup>th</sup> Street FPSs are the two facilities that experience the most frequent and significant DWOs. Final design has been initiated on these two facilities. The plant idle mode of operation will need to be eliminated to prevent DWOs from occurring in the future. The 4<sup>th</sup> Street and 34<sup>th</sup> Street FPSs will be the first projects initiated. A 30% design had been completed for both FPSs and copies were provided to the USACE at the meeting. They will conduct a cursory review and provide comments. MSD/HDR will submit 80% plans and specs to the USACE for their review and approval. The USACE has committed to complete their review within 6 weeks of receipt.

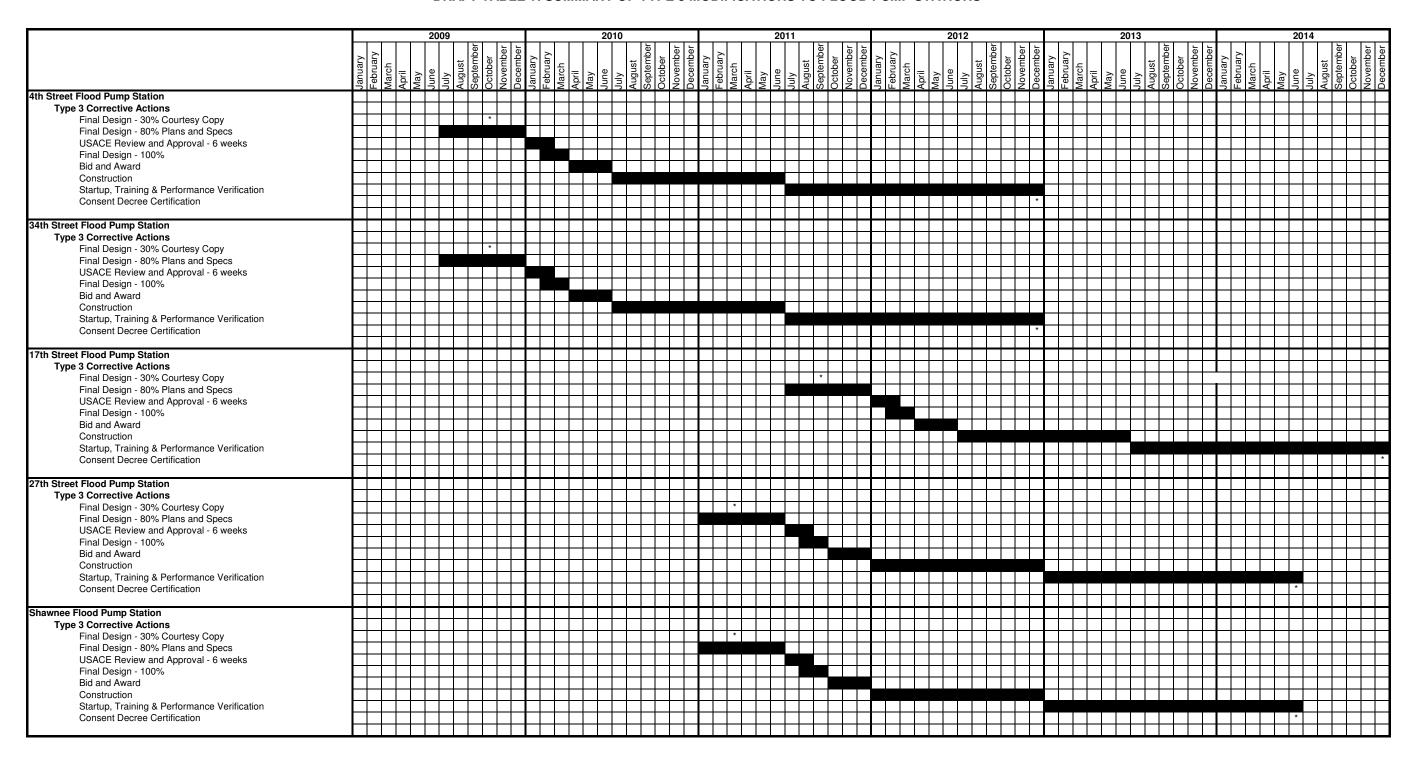
MSD's intent to revise the entire Corps FPS O&M Manual for each FPS to reflect current operations and proposed physical and operational modifications as a result of the elimination of DWOs was discussed. It was agreed that an up-to-date digital copy would be beneficial to all parties. The USACE will provide MSD with a "PDF" version of the entire manual.

The USACE requested that any existing gates where actuators are added or replaced that new stainless steel stems be provided and that the stem nuts be replaced. They also requested that schematics of the recommended operational modifications at each FPS be provided. HDR will prepare and forward to MSD and the USACE.

In summary the following action items were identified with associated completion dates:

- MSD will prepare meeting minutes and forward to the USACE for their review and comment 9/16/09.
- USACE to provide review comments on the minute meetings to MSD 10/5/09.
- Final meeting minutes will be forwarded to US EPA as a record of coordination with the USACE 10/12/09.
- USACE will provide comments on the 4<sup>th</sup> Street and 34<sup>th</sup> Street FPS Preliminary Design Report 10/15/09.
- USACE will provide MSD a "PDF" of the entire Corps FPS O&M Manual 10/31/09.

#### DRAFT TABLE 1: SUMMARY OF TYPE 3 MODIFICATIONS TO FLOOD PUMP STATIONS



## USACE Flood Pump Stations Meeting August 10, 2009

Presented by



## Meeting Purpose

 Review US EPA Mandate to Eliminate DWOs at the USACE FPSs.

## Meeting Outcomes

- Commitment from the USACE that they can meet the schedules imposed by the US EPA.
- Define USACE's role in finalizing and implementing changes at the FPSs.
- Establish MSD and USACE POCs

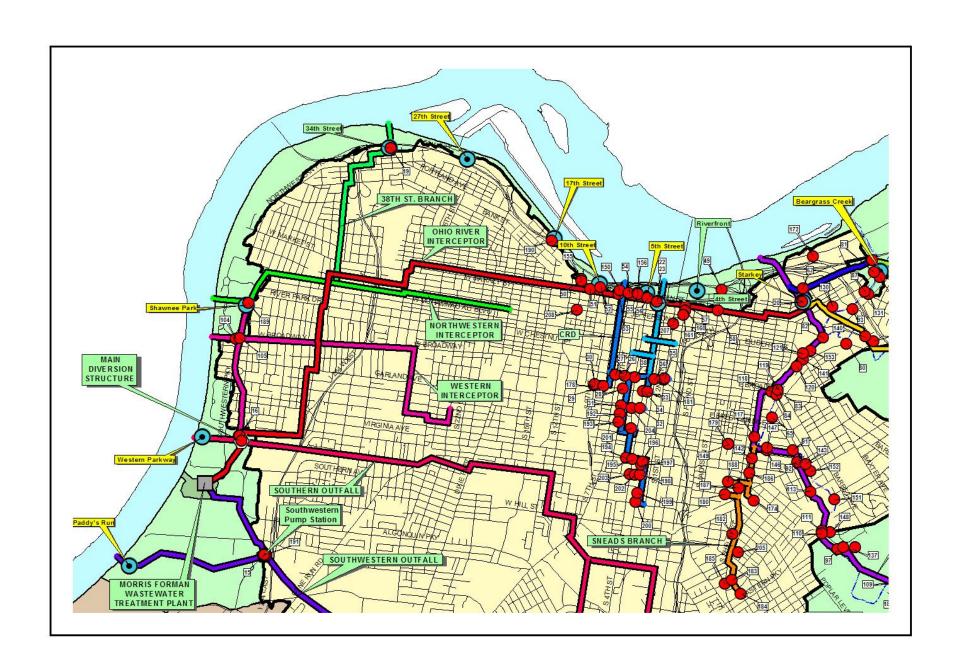
## Overview

- DWOs Overflows that occur during flood conditions when dry on the landside.
- IOAP identifies 5 Specific FPS Projects with defined compliance dates.
- Consent Decree specifies progressive fines up to \$5,000 per day for non-compliance.

# Flood Pump Stations in the Combined Sewer Area

- 34<sup>th</sup> Street FPS
- 4<sup>th</sup> Street FPS
- 27<sup>th</sup> Street FPS
- Shawnee FPS
- 17<sup>th</sup> Street FPS
- 5<sup>th</sup> Street FPS

- 10<sup>th</sup> Street FPS
- Starkey FPS
- Western FPS
- Beargrass Creek FPS
- Paddy's Run FPS

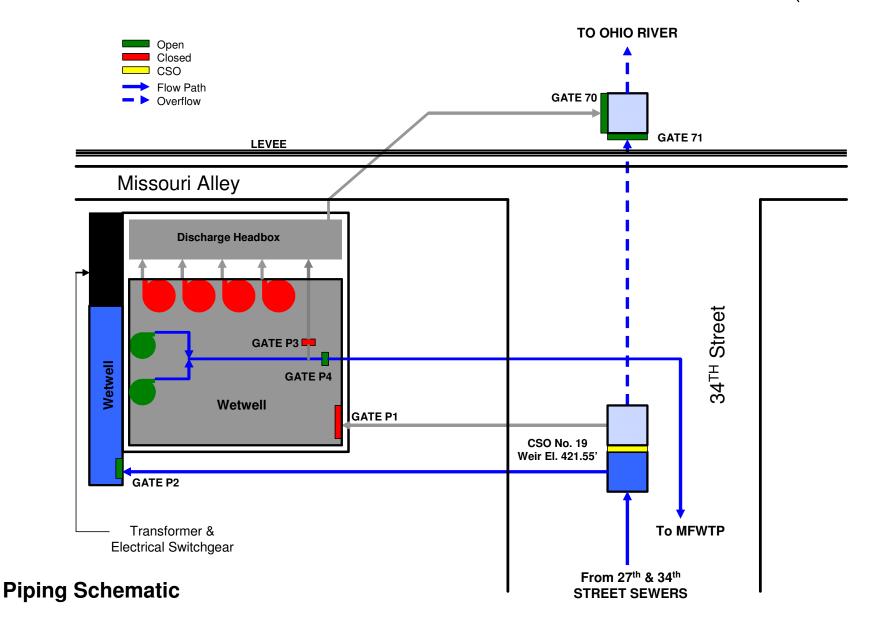


## **Project Types**

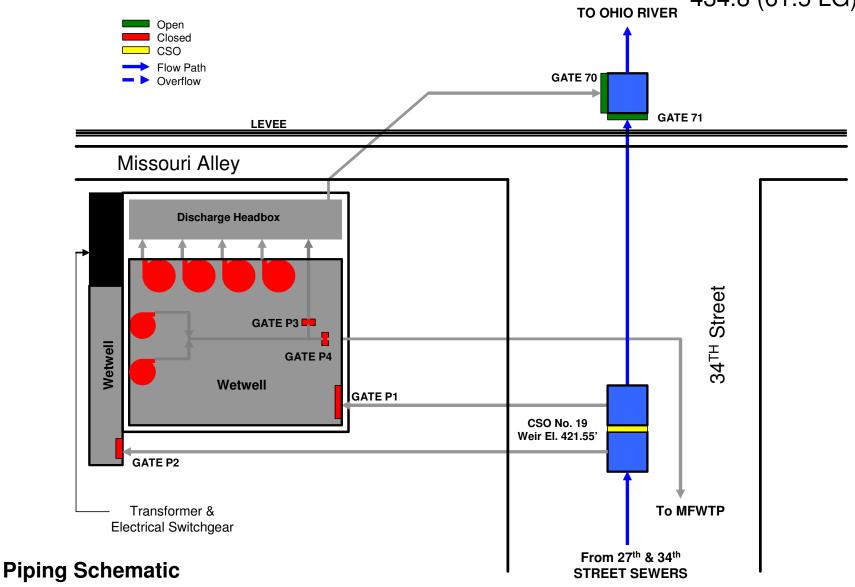
- Type 1 Operational modifications only.
- Type 2 Minor physical modifications and operational modifications.
- Type 3 Major physical modifications and operational modifications.

- Type 3 Project
- Proposed Physical Modifications
  - Automate Gate 71 with New Electric Actuator
  - Provide instrumentation
  - Provide means to return approximately 32,800 gallons of trapped water upstream of the CSO dam.
- Proposed Operational Modifications
  - Revise operational procedures for minor flood (plant idle) mode to eliminate DWOs.
- Capital Budget = \$856,700
- IOAP(CD) Completion Date = 12/31/2012

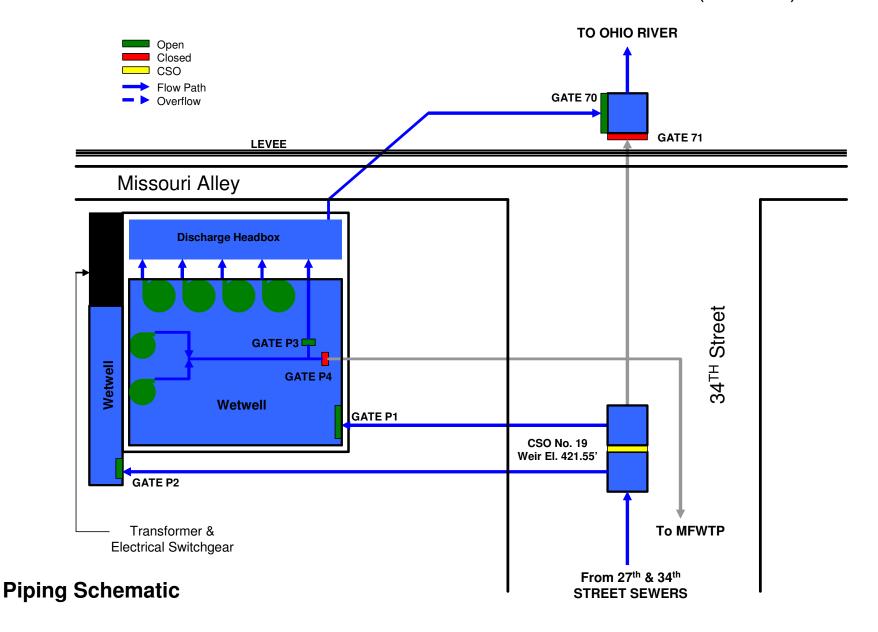
Sanitary Mode Below 421.8 (48.5 LG)

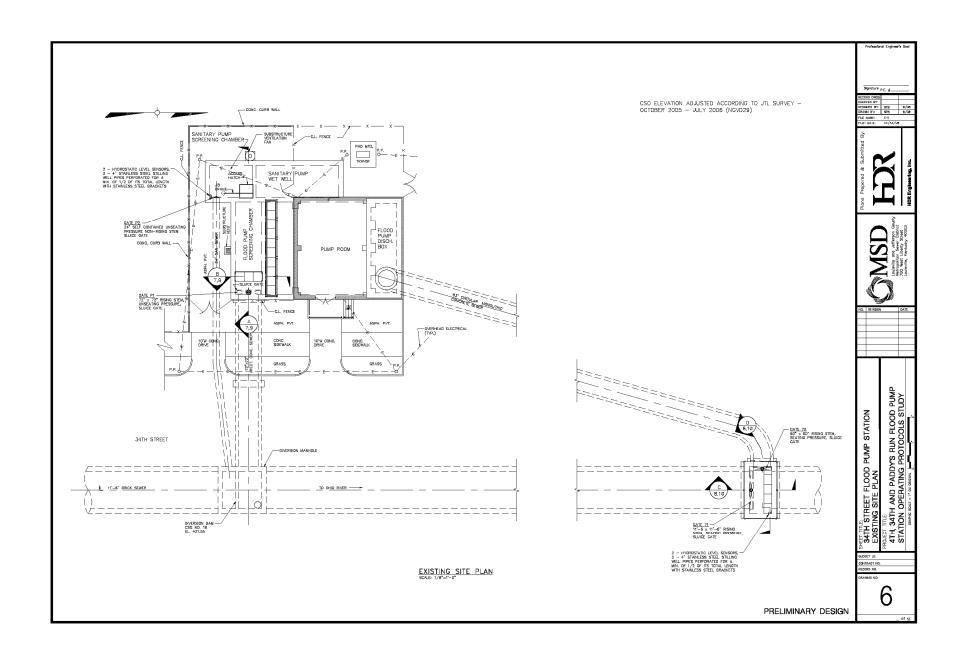


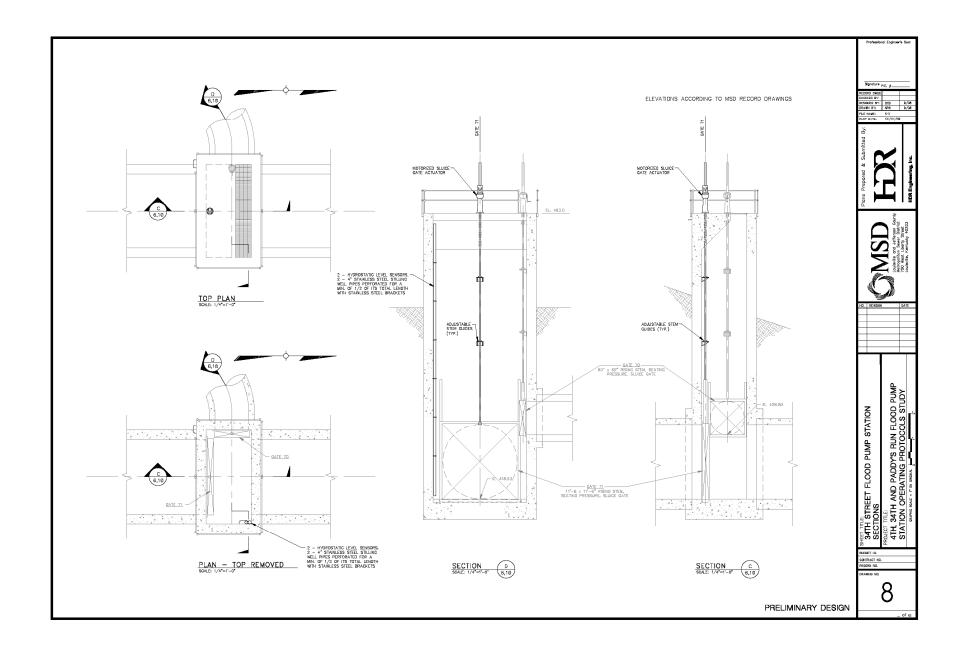
Plant Idle Mode 421.8 (48.5 LG) to 434.8 (61.5 LG)

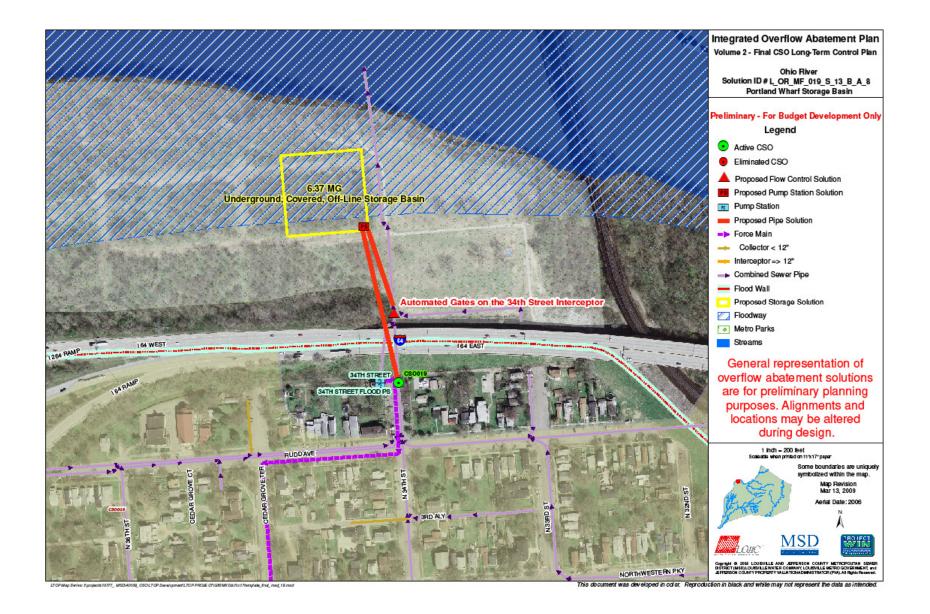


Flood Mode 434.8 (61.5 LG) and Above



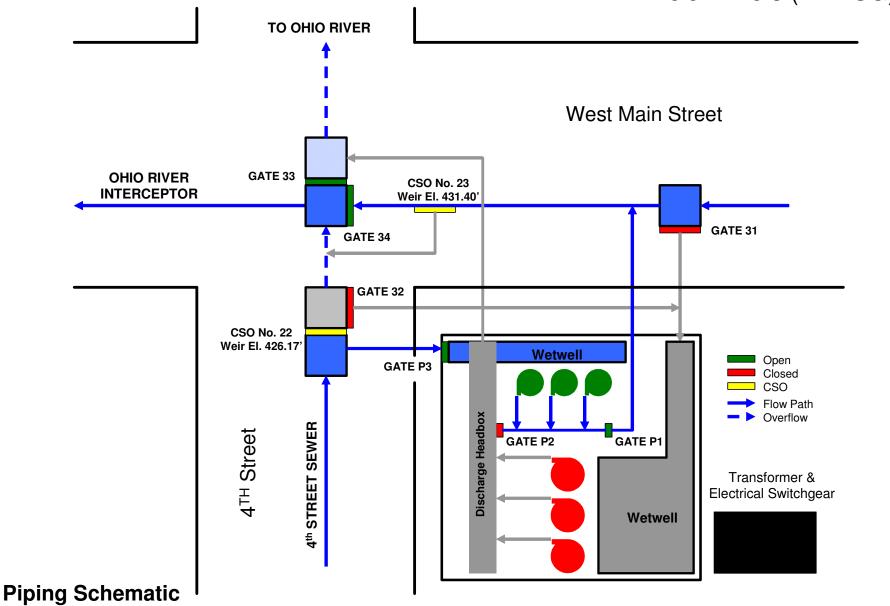




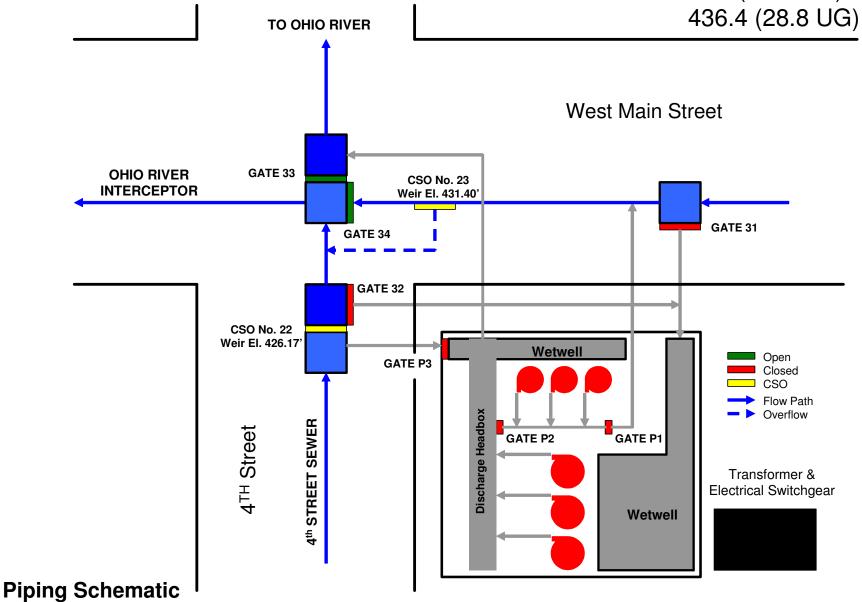


- Type 3 Project
- Proposed Physical Modifications
  - Automate Gates 33 and P3
  - Provide instrumentation
  - Provide means to return approximately 8,600 gallons of trapped water upstream of the CSO dam.
- Proposed Operational Modifications
  - Revise operational procedures for minor flood (plant idle) mode to eliminate DWOs.
- Capital Budget = \$944,000
- IOAP(CD) Completion Date = 12/31/2012

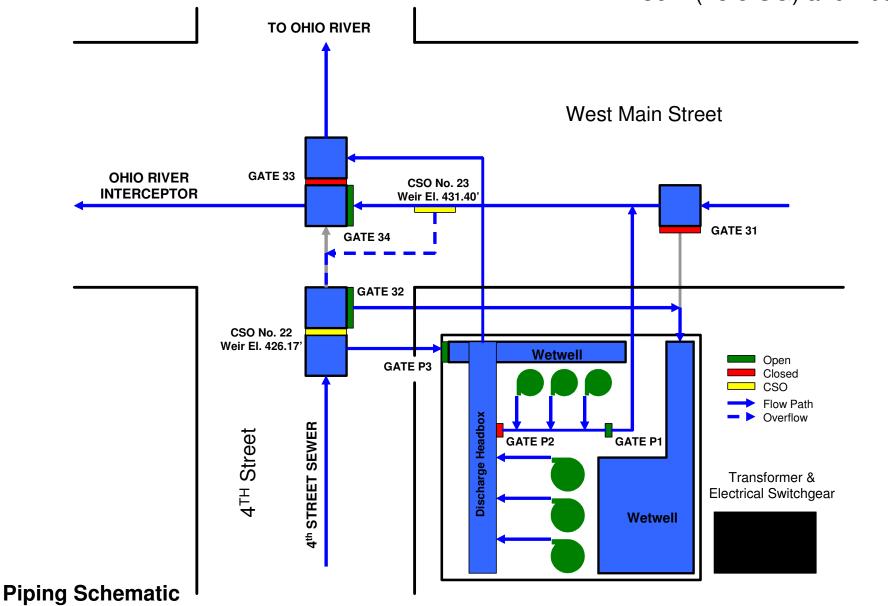
Sanitary Mode Below 425.3 (17.7 UG)

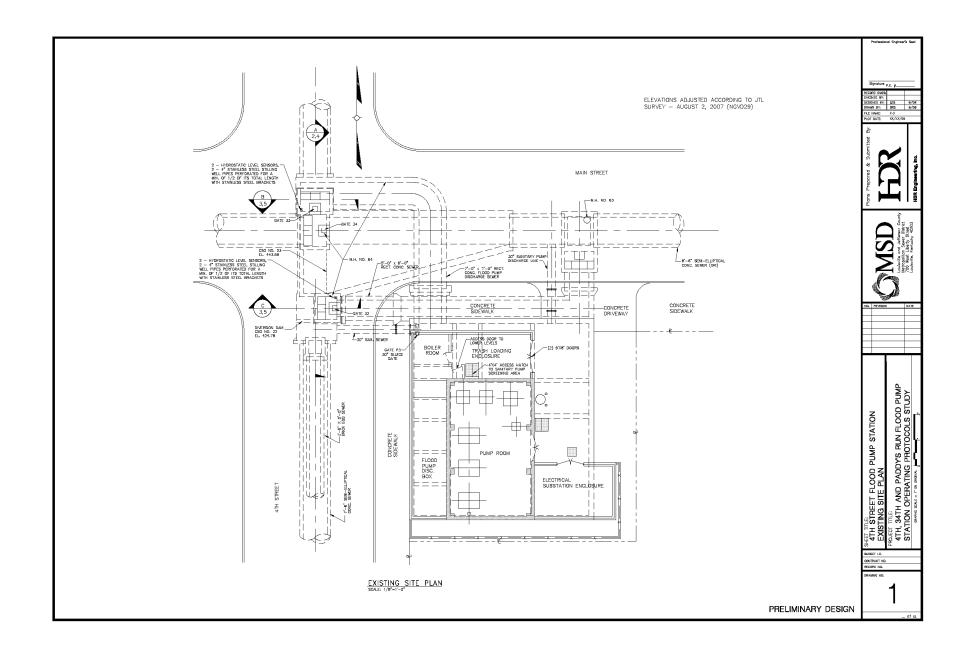


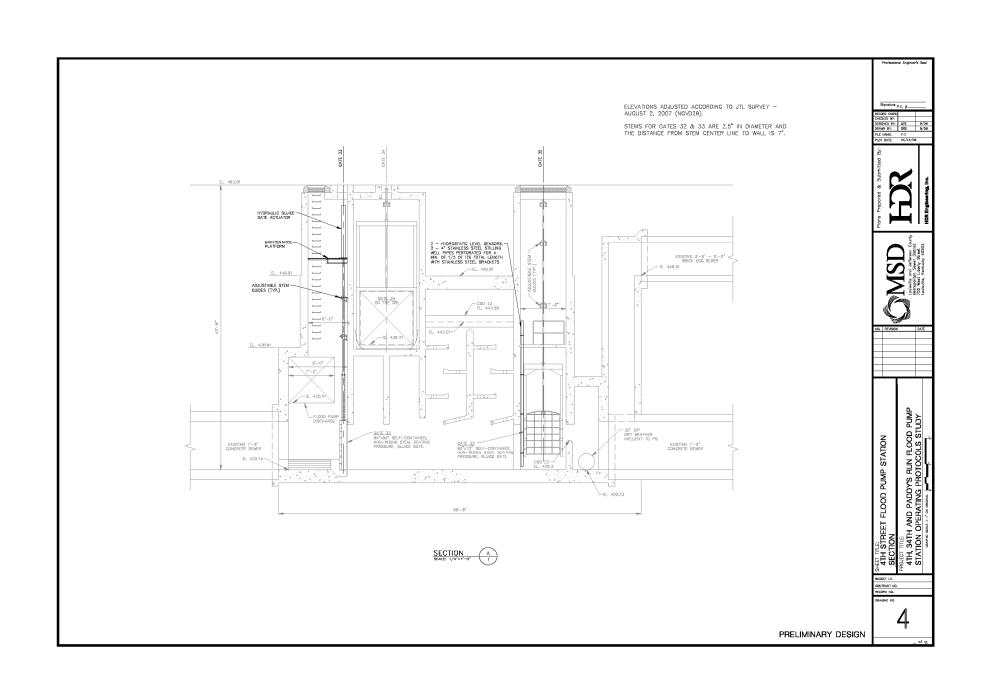
Plant Idle Mode 425.3 (17.7 UG) to 436.4 (28.8 UG)

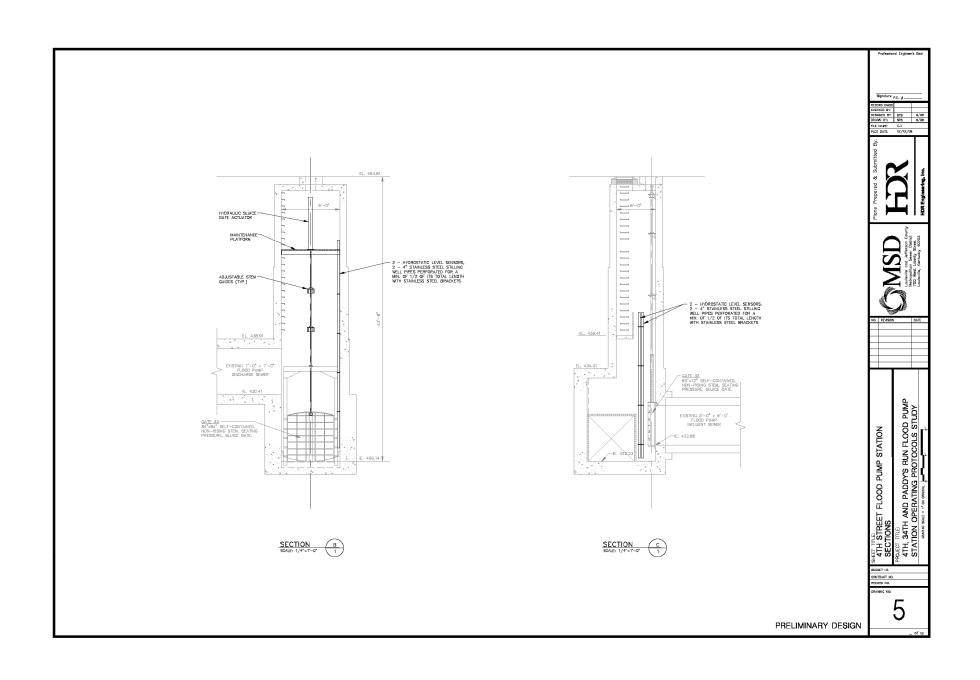


Flood Mode 436.4 (28.8 UG) and Above



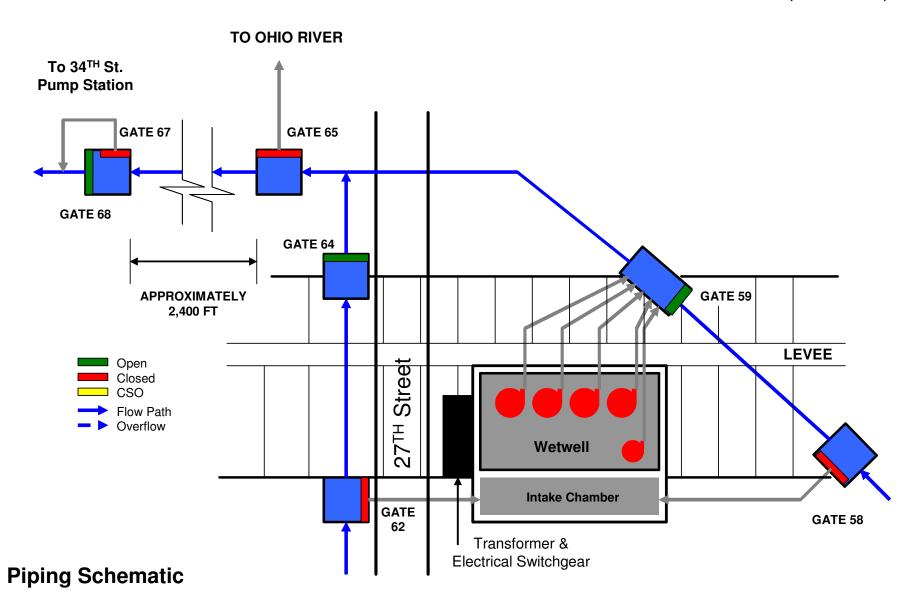




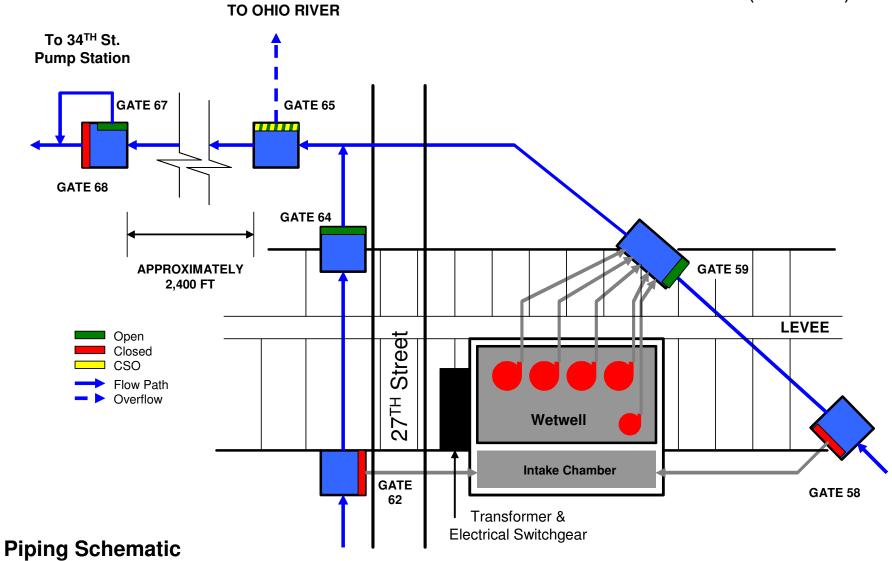


- Type 3 Project
- Gate 65 should be designated a CSO.
- Proposed Physical Modifications
  - Automate Gates 65 and 68 with remote control stations located at the PS.
  - Consider adding telemetry to enable remote operation from the MFWTP Control Room.
- Proposed Operational Modifications
  - Minor Flood Mode close Gate 65 during dry weather to ensure that DWOs do not occur.
  - Flood Mode- close Gate 65 and open Gate 67 or 68 during dry weather to ensure that DWOs do not occur.
- Capital Budget = \$475,800
- IOAP(CD) Completion Date = 6/30/2013

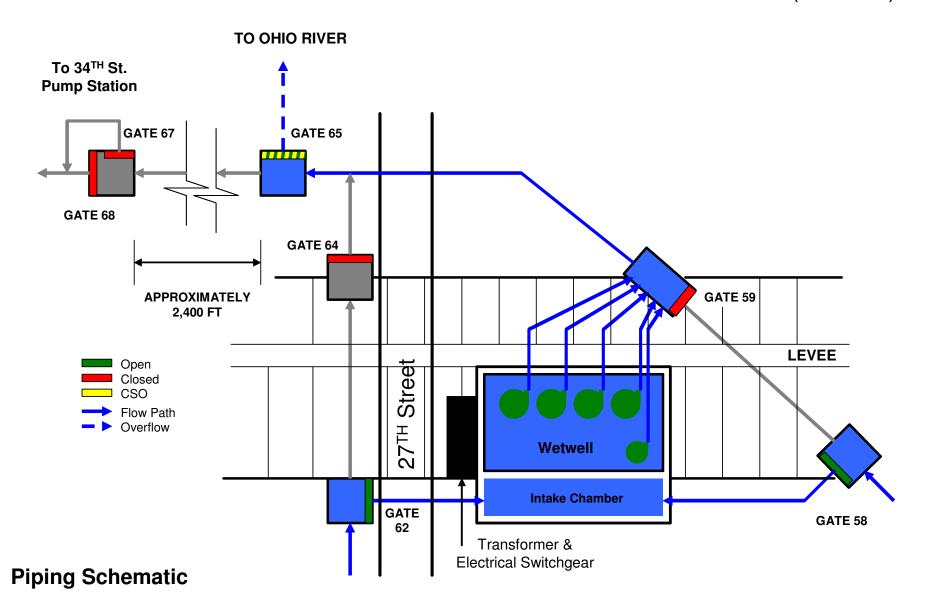
Plant Idle Mode Below 427.5 (20.0 UG)



Minor Flood Mode 427.5 (20.0 UG) to 436.8 (29.3 UG)



Flood Mode Above 436.8 (29.3 UG)

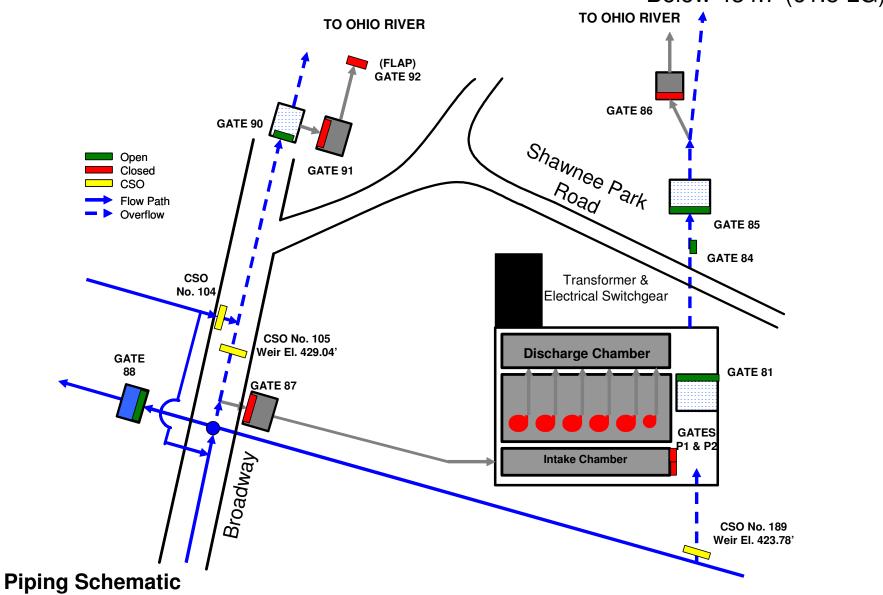


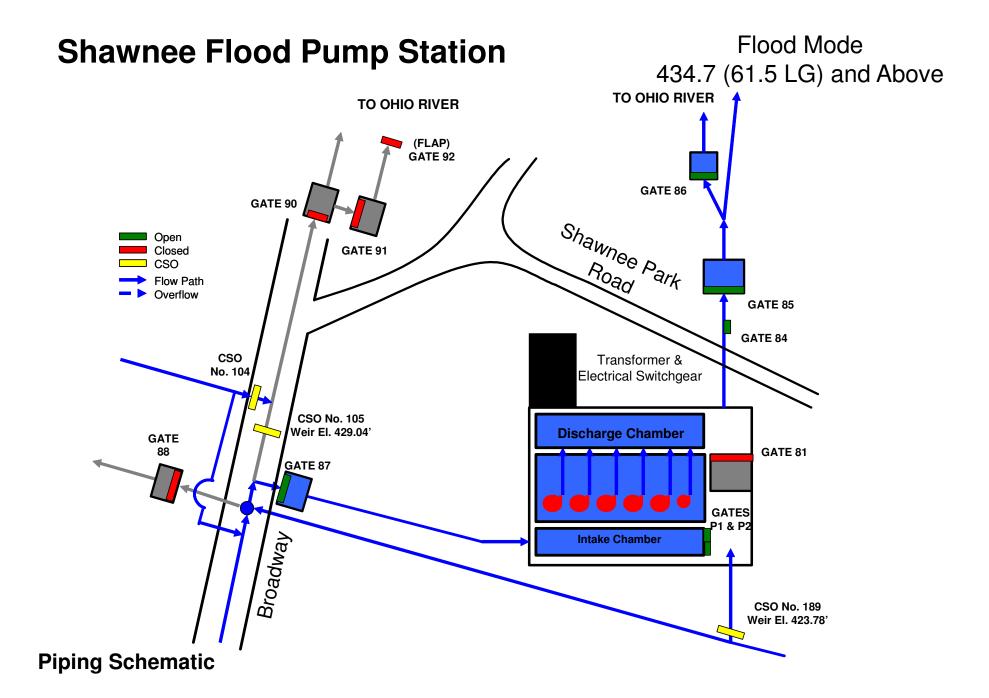
## Shawnee Flood Pump Station

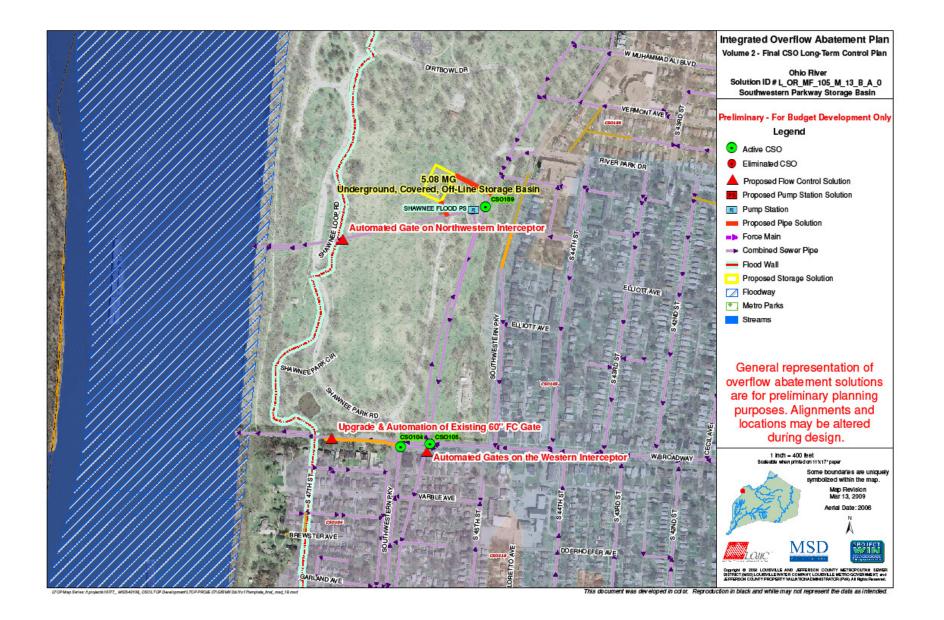
- Type 3 Project
- Proposed Physical Modifications
  - Automate Gate 88 on the Western Interceptor with remote control station located at the PS and telemetry for remote control operation from MFWTP (included in Southwestern Parkway Storage Basin LTCP project).
  - Provide means to return approximately 362,000 gallons of trapped water upstream of the CSO dams.
- Proposed Operational Modifications
  - Flood Mode- open Gate 88 during dry weather to ensure that DWOs do not occur.
  - Could be incorporated into RTC to provide flow management to minimize wet weather overflows.
- FPS Capital Budget = \$778,700
- FPS IOAP Completion Date(CD) = 6/30/2013
- SW Parkway Storage Basin Capital Budget = \$17,616,919
- SW Parkway Storage Basin IOAP(CD) Completion Date = 12/31/2018

#### **Shawnee Flood Pump Station**

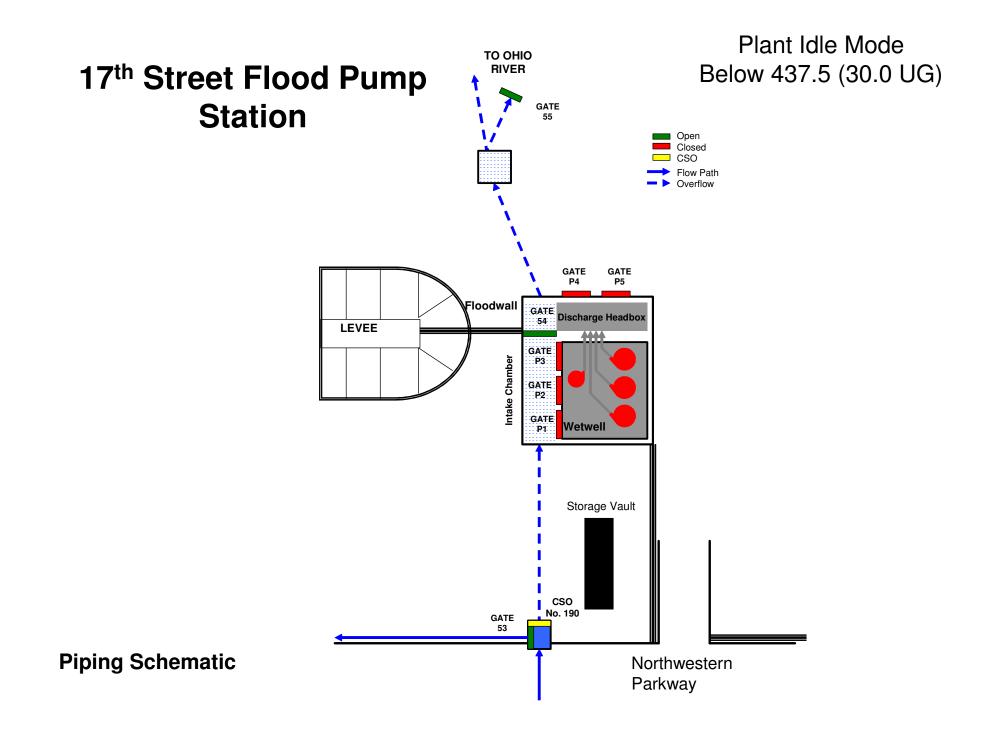
Plant Idle Mode Below 434.7 (61.5 LG)

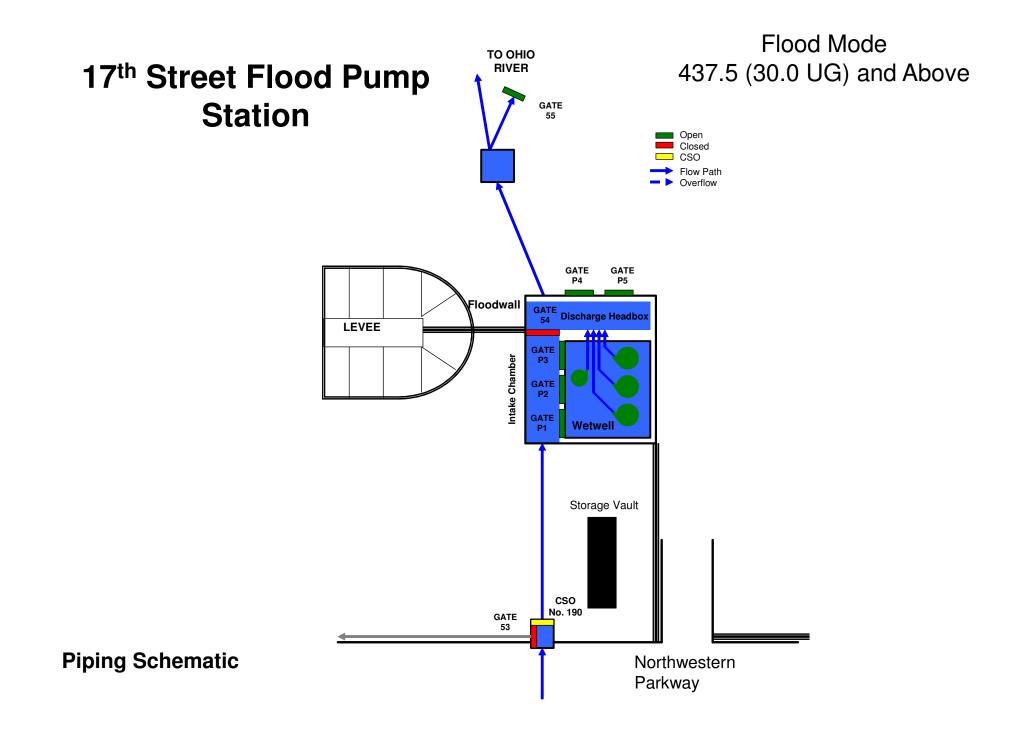






- Type 3 Project
- Proposed Physical Modifications
  - Automate Gate 53 with remote control station located at the PS and telemetry for remote operation from MFWTP.
- Proposed Operational Modifications
  - Open Gate 53 during dry weather, regardless of river elevation, to allow normal flow to proceed to the 34<sup>th</sup> Street FPS.
- Capital Budget = \$625,300
- IOAP(CD) Completion Date = 12/31/2014



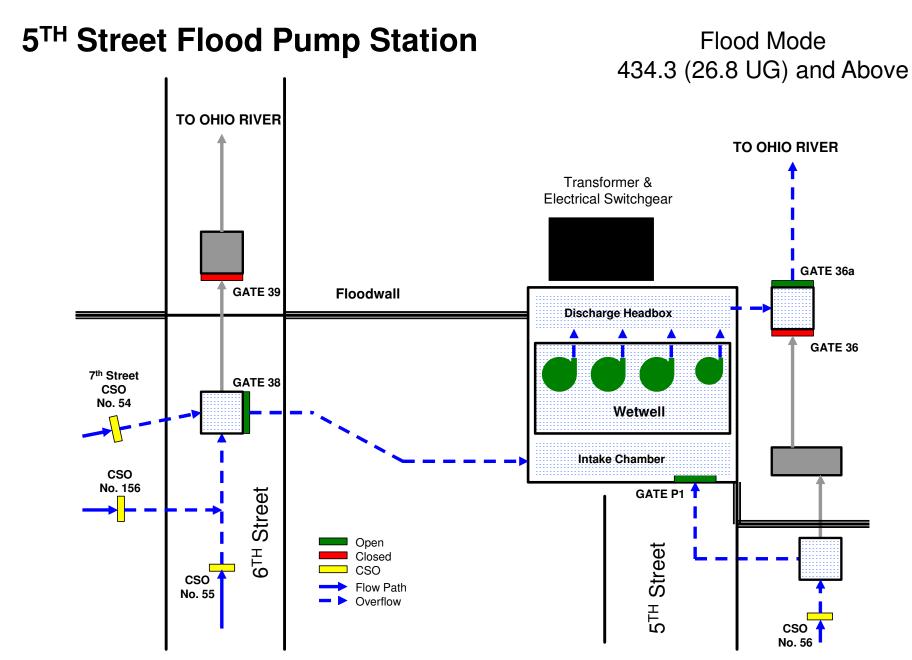


# 5<sup>th</sup> Street Flood Pump Station

- Type 2 Project
- Proposed Physical Modifications
  - Provide means to return approximately 10,000 gallons of trapped water upstream of the CSO dams at two locations.
- Proposed Operational Modifications
  - Revise operational procedures to ensure trapped water is conveyed to the interceptor.
- Capital Budget = \$761,800
- Completion Date = TBD

### **5<sup>TH</sup> Street Flood Pump Station** Plant Idle Mode Below 434.3 (26.8 UG) TO OHIO RIVER **TO OHIO RIVER** Transformer & **Electrical Switchgear** GATE 36a **GATE 39** Floodwall **Discharge Headbox GATE 36** 7th Street **GATE 38** CSO No. 54 Wetwell **Intake Chamber** CSO No. 156 6<sup>TH</sup> Street **GATE P1** Open 5<sup>TH</sup> Street Closed Flow Path No. 55 Overflow

**Piping Schematic** 



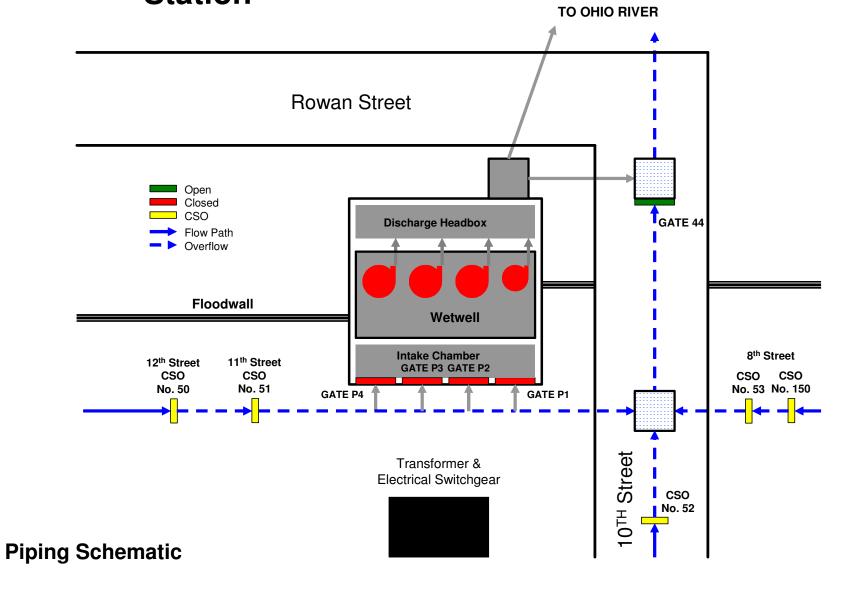
**Piping Schematic** 

## 10<sup>th</sup> Street Flood Pump Station

- Type 2 Project
- Proposed Physical Modifications
  - Provide means to return approximately 25,000 gallons of trapped water upstream of the CSO dam.
- Proposed Operational Modifications
  - Revise operational procedures to ensure trapped water is conveyed to the interceptor.
- Capital Budget = \$380,900
- Completion Date = TBD

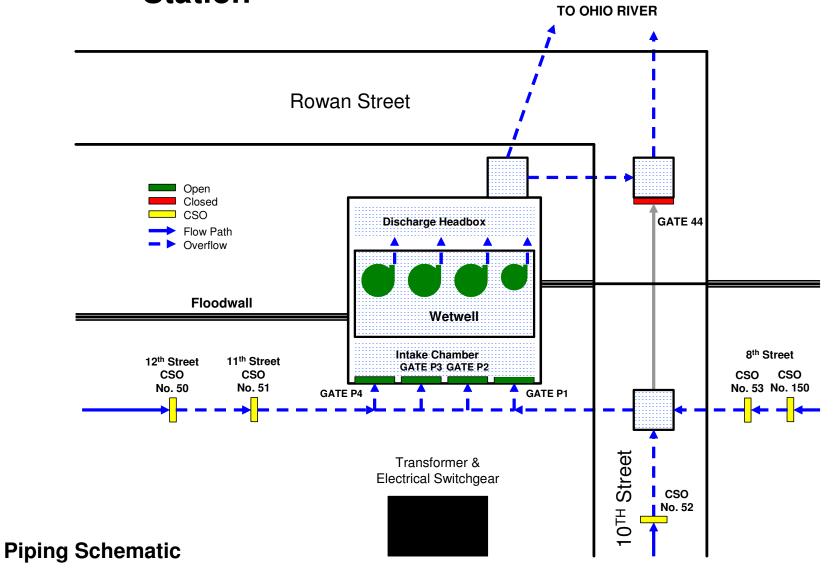
## 10<sup>TH</sup> Street Flood Pump Station

Plant Idle Mode Below 434.6 (27.1 UG)



## 10<sup>TH</sup> Street Flood Pump Station

Flood Mode 434.6 (27.1 UG) and Above

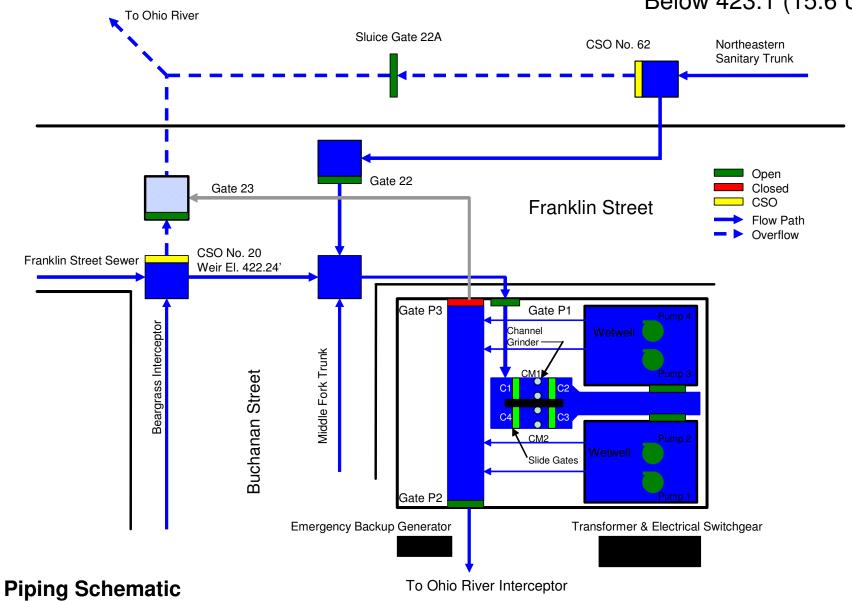


# Starkey Pump Station

- Type 2 Project
- Proposed Physical Modifications
  - Provide means to return approximately 57,000 gallons of trapped water upstream of the CSO 62 dam.
- Proposed Operational Modifications
  - Revise SOP accordingly
- Capital Budget = \$380,900
- Completion Date = TBD

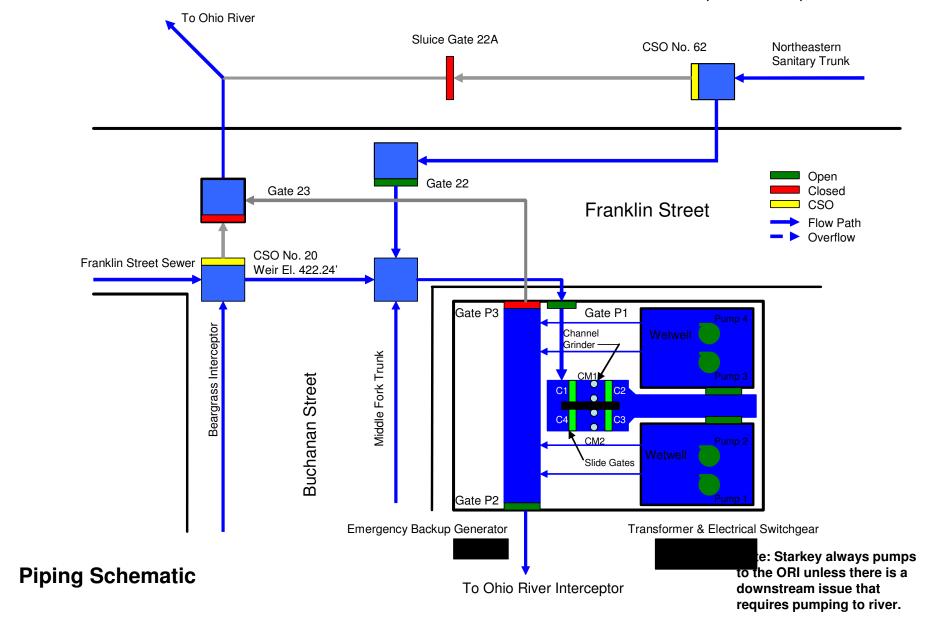
## **Starkey Pump Station**

### Sanitary Mode Below 423.1 (15.6 UG)



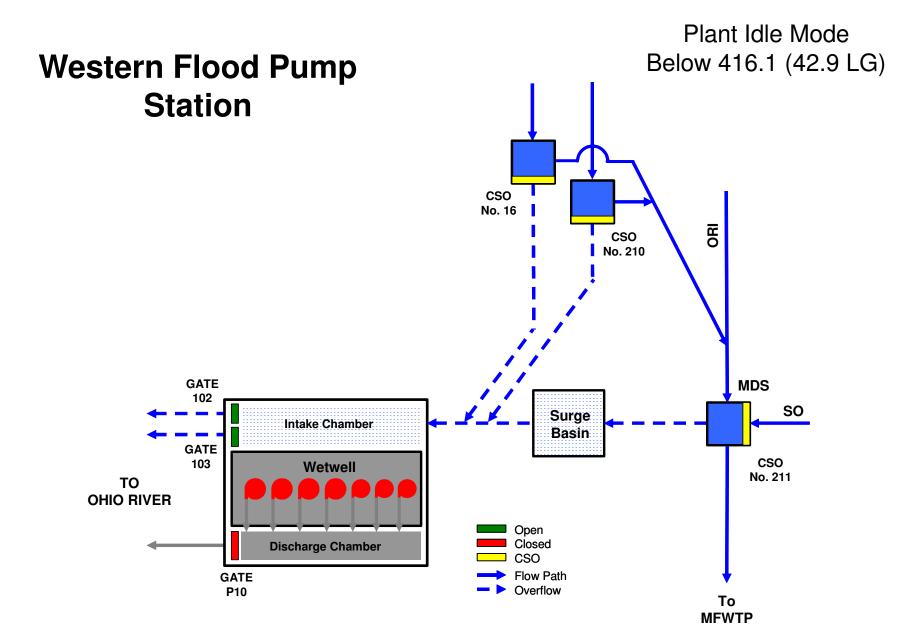
### **Starkey Pump Station**

### Flood Mode 423.1 (15.6 UG) and Above

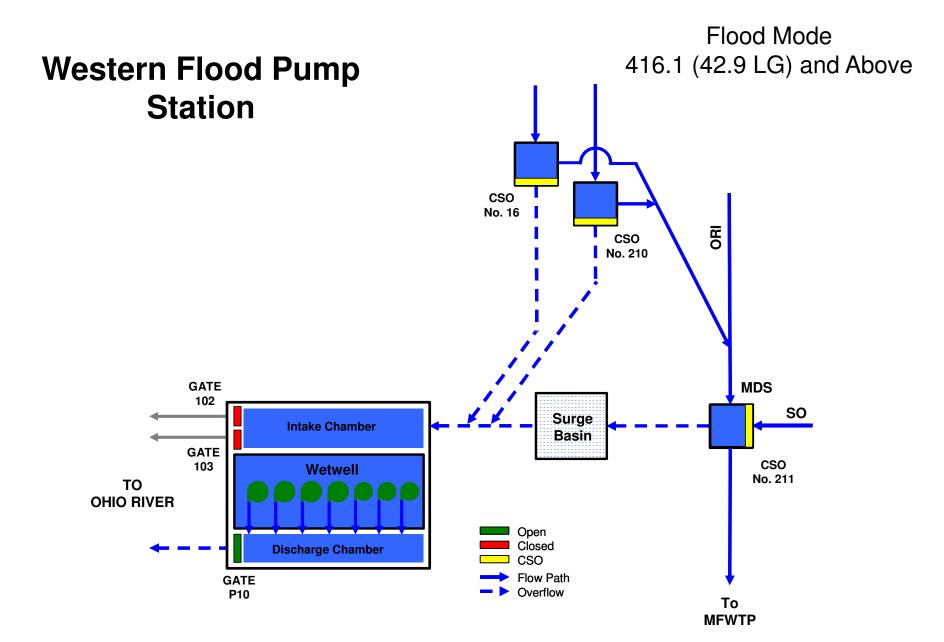


# Western Flood Pump Station

- Type 2 Project
- Proposed Physical Modifications
  - Provide means to return approximately 750,000 gallons of trapped water upstream of the Gates 102 and 103
- Proposed Operational Modifications
  - Revise SOP accordingly
- Capital Budget = TBD
- Completion Date = TBD



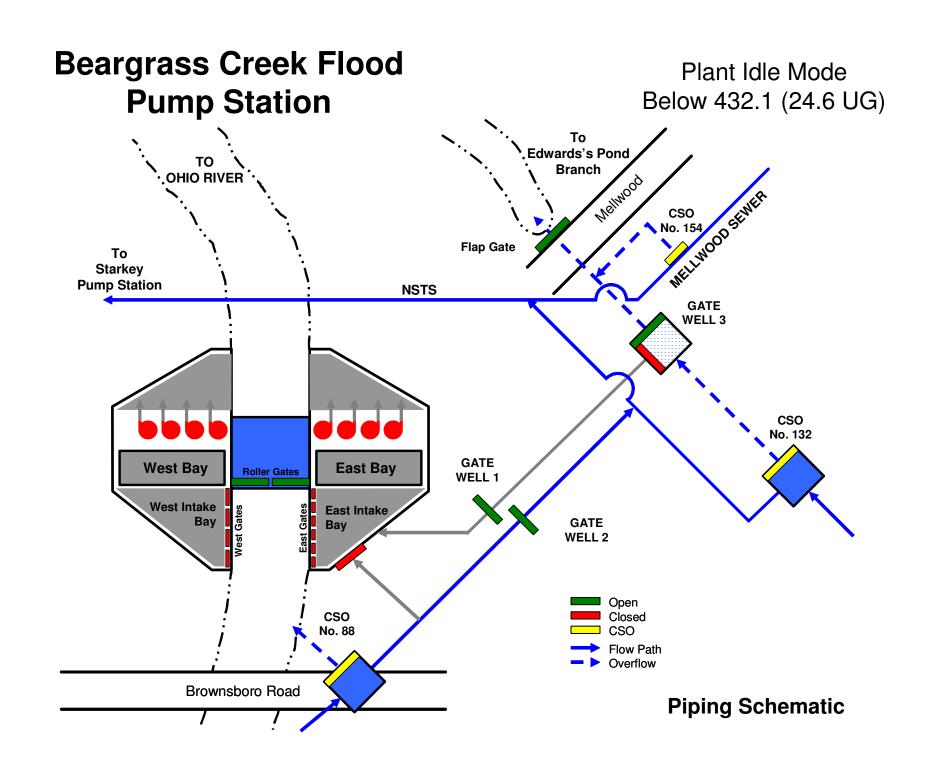
**Piping Schematic** 

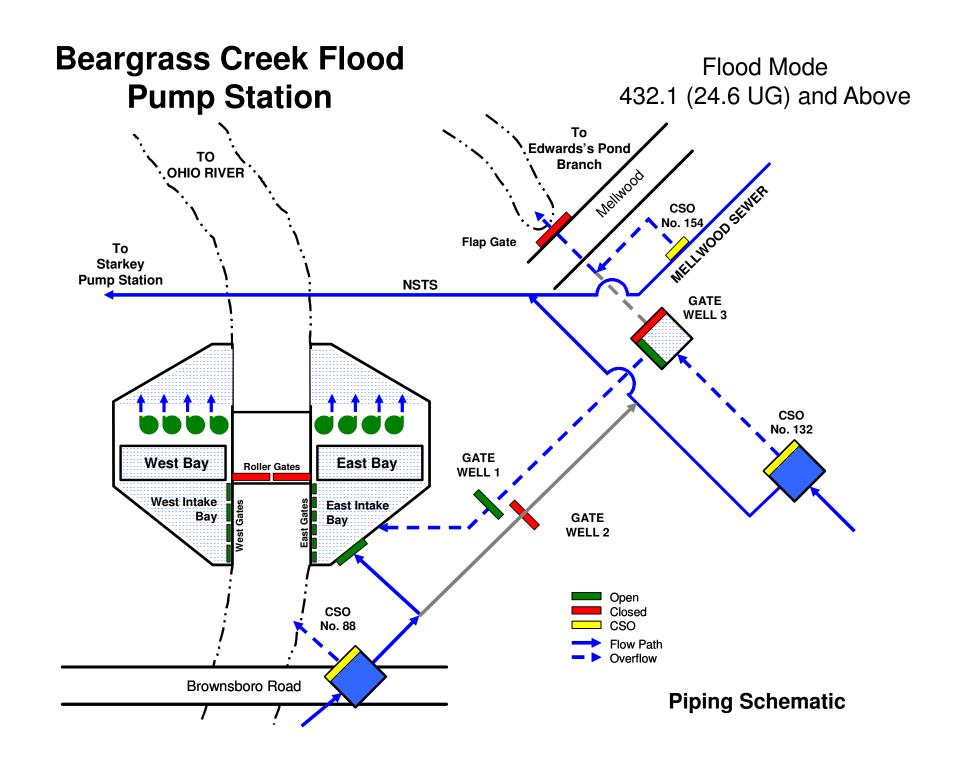


**Piping Schematic** 

## Beargrass Creek Flood Pump Station

- Type 1 Project
- Proposed Physical Modifications
  - None Required.
- Proposed Operational Modifications
  - Flood Mode leave 24" sluice gate on East Intake Bay closed and 24" sluice gate in Gatewell 2 open and revise SOP accordingly
- Capital Budget = None
- Completion Date = NA



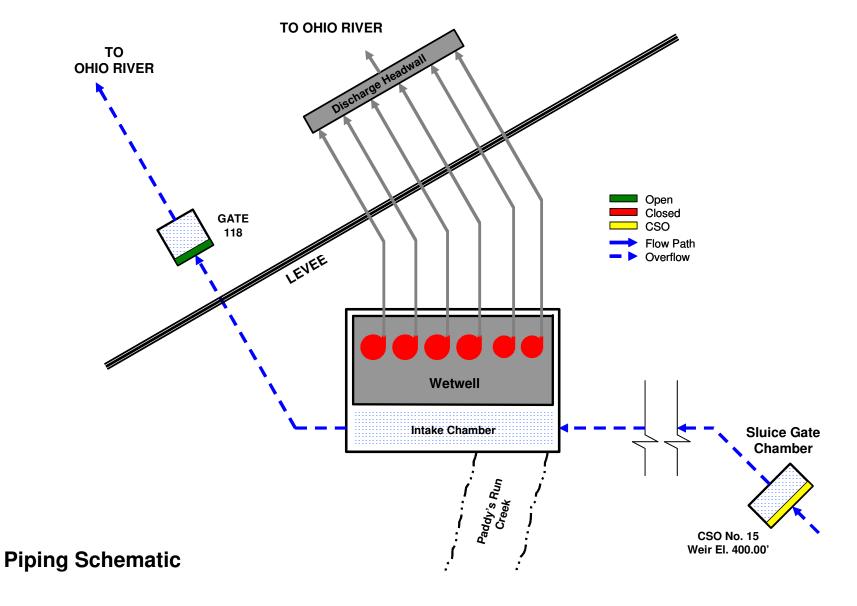


## Paddy's Run Flood Pump Station

- Proposed Physical Modifications
  - None Required
- Proposed Operational Modifications
  - None required.
- Associated IOAP Project
  - The Paddy's Run Wet Weather Treatment Facility that includes both ILS & RTB.
- Capital Budget = \$24,944,400
- IOAP Completion Date = 12/31/2014

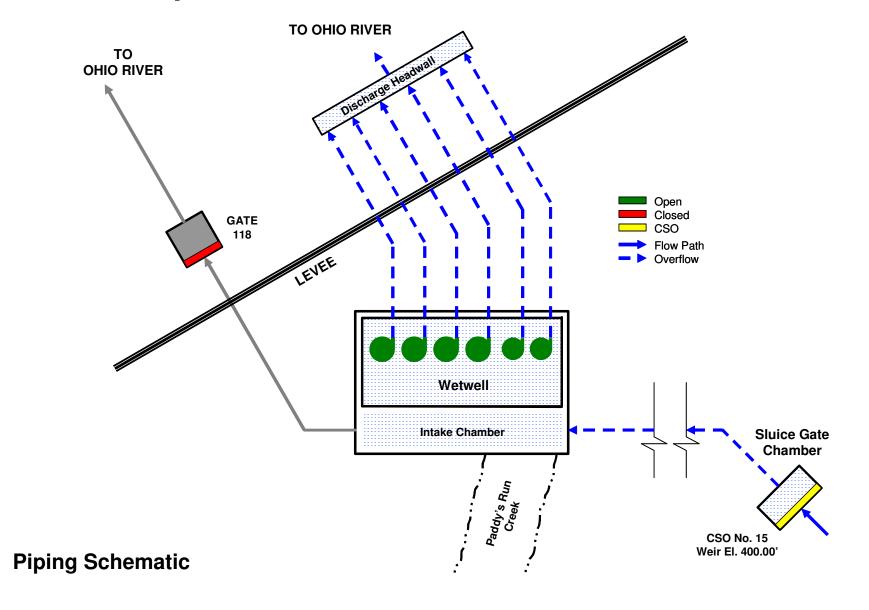
## Paddy's Run Flood Pump Station

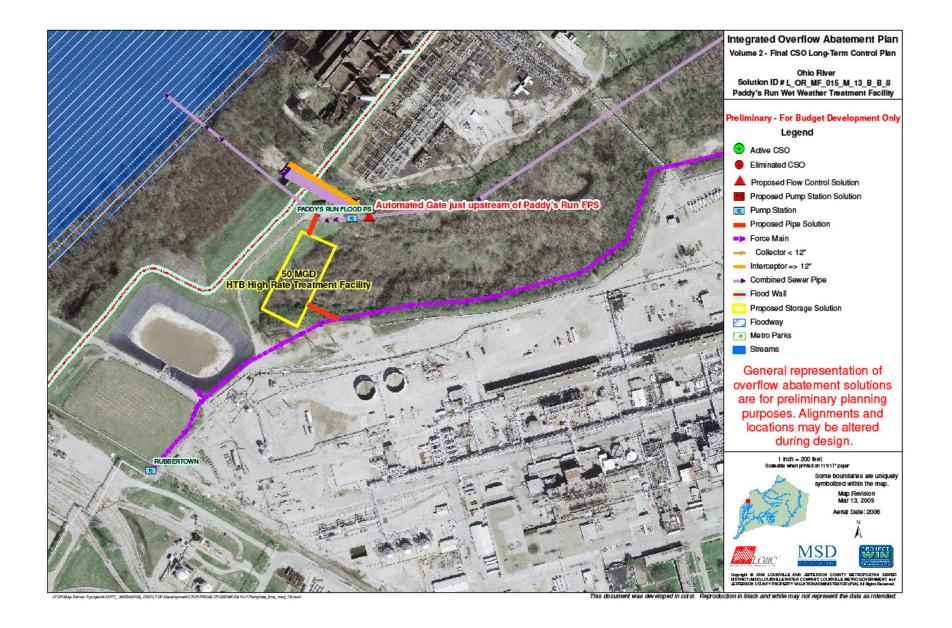
Plant Idle Mode Below 432.0 (58.0 LG)



## Paddy's Run Flood Pump Station

Flood Mode 432.0 (58.0 LG) and Above





## **Next Actions**

- Establish USACE review times for preliminary and final designs for each project
- Provide project schedule with defined USACE review times for review by the USACE
- MSD receive schedule comments from USACE
- MSD to provide meeting minutes for review prior to forwarding to US EPA
- Assign MSD and USACE POCs



Appendix I – Bill Insert





# Metropolitan Sewer District

24/7 Customer Relations: 502-587-0603

TDD/TTY: 502-540-6233

WWW.MSDLOUKY.ORG

EN ESPAÑOL: 502-540-6423

DE 8 DE LA MAÑANA A 5 DE LA TARDE,

DE LUNES A VIERNES

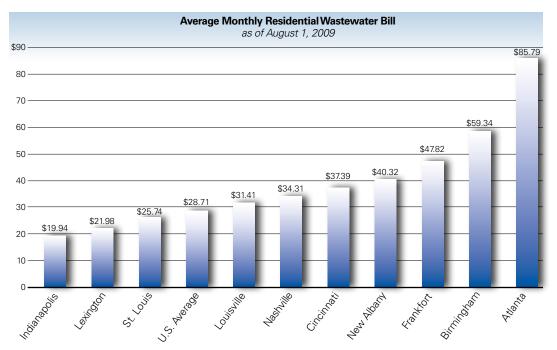


### Notice to our MSD customers

The MSD Board has approved a rate increase of 6.5 percent for wastewater, drainage and Environmental Protection Agency (EPA) surcharge fees on all bills, which is effective **August 1, 2009.** MSD will continue to offer a 30 percent discount on the surcharge and wastewater charges to qualified senior citizens.\*

The average monthly residential wastewater bill that is issued after August 1, 2009, will reflect an increase of \$1.91—from \$29.50 to \$31.41, while stormwater drainage fees will increase by 35 cents—from \$5.35 to \$5.70.

As the chart below shows, the National Association of Clean Water Agencies has projected that the average 2009 national monthly residential wastewater bill will be \$28.71. MSD's average rate ranks just slightly above this projected national average.



\* Senior citizens who are age 65 or older, have a gross annual income of \$35,000 or less and are **both** Louisville Water Company **and** MSD customers may request an application for a 30 percent discount on wastewater charges and the EPA surcharge through MSD's Web site, www.msdlouky.org, or by calling Customer Relations at **502-587-0603**.

### Be prepared for flooding

Many Louisville Metro areas are at risk for flooding. With some preparation, however, you can protect your property and family from the damage that floods can cause.

MSD offers advice about flood-proofing steps—such as installing backwater valves, sump pumps, emergency generators, glass-block basement windows and structural barriers. Call **502-587-0603** for additional information.

For flood-related information, visit the Federal Emergency Management Agency (FEMA) Web site at www.floodsmart.gov.

#### Flood-safety tips:

Protect your family, property and belongings before floods threaten them—especially if you live in an area that is prone to flooding.

- Transfer irreplaceable items and valuables—like family keepsakes and insurance policies to places that are safe from flooding.
- Locate the main electrical switch, water valve and gas valve to your property, so that you can turn them off prior to the start of flooding.
- Develop a safety plan in case of evacuation, and inform your family members and friends about it.
- Assemble supplies in advance, including a first-aid kit, bottled water, a battery-powered radio, a flashlight, extra batteries, rubber boots and gloves.

#### Follow these common-sense rules when flooding occurs:

- Stay out of floodwaters. As little as six inches of moving water can throw an adult off balance, while two feet of moving water can sweep away a vehicle.
- Turn off gas, water and electricity if you are able to do so without wading into water.
- Move vehicles to higher ground.
- Do not walk into a flooded basement due to the risk of electrocution.
- Remember to take your pets with you if you must evacuate.



Above: Dan Bailey flushes and cleans a neighborhood sewer to prevent buildup of fats, oils and grease, which is shown in the photo below.



# Metropolitan Sewer District

#### CONNECT WITH MSD

BUSINESS HOURS ARE 8:15 A.M. TO 5 P.M. MONDAY THROUGH FRIDAY (EXCEPT FOR HOLIDAYS).

24/7 Customer Relations: 502-587-0603

TDD/TTY: 502-540-6233

EN ESPAÑOL: 502-540-6423 DE 8 DE LA MAÑANA A 5 DE LA TARDE, DE LUNES A VIERNES

Business Office and Information: 502-540-6000

#### WEB SITES:

MSD HOME PAGE
WWW.MSDLOUKY.ORG

CUSTOMER RELATIONS
CUSTOMERRELATIONS@MSDLOUKY.ORG

FLOODPLAIN MAP INFORMATION
WWW.MSDLOUKY.ORG/PROGRAMS/CRSSITE

FLOODPLAIN DETERMINATIONS
WWW.MSDLOUKY.ORG/FLOODPLAININFO.HTM



## Be part of a WINning team, and help keep our waterways clean

Fats, oils and grease—or FOG—clog sewers. Project Waterway Improvements Now (Project WIN) has distributed grease scrapers and the following tips to keep FOG out of the sewer.



Properly dispose of fats, oils and grease to avoid clogging your sewer lines.



#### What you can do to maintain fat-free sewers:

- Can the grease! Scrape and wipe off all FOG-containing foods, and dispose of them in the trash (i.e., meat fats, food scraps, lard/shortening, baking goods, butter/margarine, cooking oil, sauces and/or dairy products).
- Refrain from pouring FOG down sinks or toilets.
- Use sink strainers to catch loose food debris, and discard it in the trash.
- Recycle your deep-fryer oil, and take it to the grease drop-off facility at 7501 Grade Lane.
- Never pour grease waste down your outside storm sewer or catch basins.

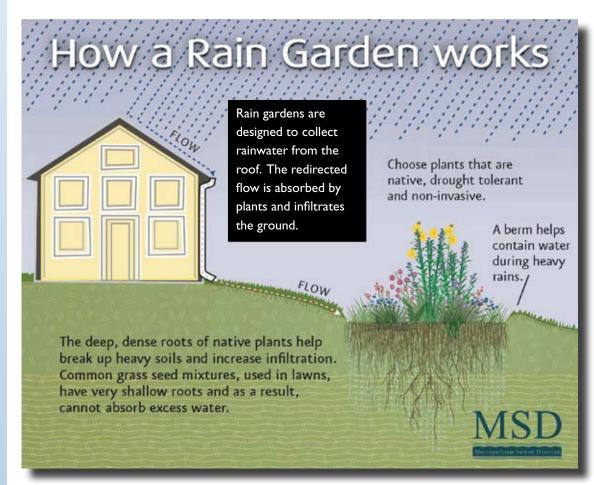


## Consider planting a rain garden to reduce stormwater in our streams and combined sewers

Keep excess stormwater and pollutants out of our streams, and improve our environment at the same time by disconnecting house downspouts and redirecting runoff into rain gardens.

Rain gardens—which are designed with shallow, level bottoms—soak up stormwater runoff and filter out pollutants. By diverting stormwater into rain gardens from our roofs and driveways, we improve water quality and simultaneously create beautiful gardens that sustain biodiversity.

The MSD Rain Garden Manual is available online at http://www.msdlouky.org, or call MSD at 502-587-0603.





Appendix J – August 4, 2009 Storm Report





Louisville and Jefferson County Metropolitan Sewer District 700 West Liberty Street Louisville Kentucky 40203-1911 502-540-6000 www.msdlouky.org

August 18, 2009

Chief, Water Programs Enforcement Branch Water Management Program US EPA Region 4 Atlanta Federal Center 61 Forsyth Street SW Atlanta, GA 30303 Chief, Environmental Enforcement Section Environmental and Natural Resources Division U.S. Department of Justice Post Office Box 7611 Washington DC 20044-7611

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

Subject:

August 4, 2009, Flood Event Summary Civil Action No. 3:08-cv-00608-CRS

Attention Chief:

Attached please find the report required under the Amended Consent Decree, Force Majeure Paragraph 67, for the above-mentioned flood event.

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.

Sincerery,

W. Brian Bingham

Regulatory Services Director

cc:

H. J. Schardein, Jr.

Paula Purifoy

Laurence J. Zielke





Louisville and Jefferson County Metropolitan Sewer District 700 West Liberty Street Louisville Kentucky 40203-1911 502-540-6000 www.msdlouky.org

August 18, 2009

Chief, Water Programs Enforcement Branch Water Management Program US EPA Region 4 Atlanta Federal Center 61 Forsyth Street SW Atlanta, GA 30303 Chief, Environmental Enforcement Section Environmental and Natural Resources Division U.S. Department of Justice Post Office Box 7611 Washington DC 20044-7611

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

Subject:

Sewer Overflow Response Protocol (SORP) Annual Review

Civil Action No. 3:08-cv-00608-CRS

Attention Chief:

MSD has reviewed the Sewer Overflow Response Protocol (SORP), dated November 5, 2008, and determined that there are no major revisions requiring a revised SORP to be submitted by August 22, 2009. MSD has identified that minor revisions will need to be made to the renaissance routes due to changes in documented overflows. These updated routes will be submitted to all parties for incorporation into the November 5, 2008, SORP when they are completed.

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 hest 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. Brian Bingham

Regulatory Services Director

cc:

H. J. Schardein, Jr.

Paula Purifoy

Laurence J. Zielke



Beneficial Use of Louisville's Biosolids www.louisvillegreen.com



**DATE:** August 18, 2009

TO: Sean Ireland, EPA Region IV; Gary Levy, KDEP

**FROM:** Brian Bingham

**SUBJECT:** August 4<sup>th</sup>, 2009 Flood Event

This report is offered as the written report related to the extreme rainfall event that Louisville experienced during the morning of August 4<sup>th</sup> beginning around 8 a.m. and lasting through approximately 9:30 a.m. of the same day.

#### Rain Event

The Louisville Metro area experienced a severe storm that followed the path of the Ohio River from



south to north and dropped as much as 6.5 inches of rain over Louisville's combined sewer system during the timeframe mentioned above. The storm had peak intensities over 8.8 inches an hour and quickly surcharged large areas of MSD's drainage, sanitary, and combined sewer systems causing widespread basement backups and surface flooding. The distribution of rainfall can be seen in **Attachment A**.

Western and downtown areas of Louisville

experienced unprecedented rainfall rates and depths which exceeded a 1000-year storm frequency - or a 0.1% chance of occurring in any given year. Rainfall frequency reports for the hardest hit areas can be found in **Attachment B**. Rainfall intensity timelines for various areas are demonstrated in **Attachment C**. During the storm event, MSD's Customer Relations Department Call Center fielded over 2,760 MSD calls and 1,270 after-hour calls for Louisville Metro from 8:00 a.m. on August 4, 2009 through August 7, 2009. Spatial Distribution of these calls can be reviewed in **Attachment D**.

#### System Response

No direct fatalities or injuries were reported as a result of the flooding. However, substantial flooding resulted in extensive property damage to buildings and automobiles throughout the combined sewer system area. Emergency water rescues were executed in several neighborhoods and also at certain buildings within the primary campus of the University of Louisville. Churchill Downs evacuated many of the horses stabled onsite due to flood levels approaching that of the 1937 flood. A summary timeline of the events that unfolded during and after the storm are outlined in **Attachment H**.



August 4<sup>th</sup>, 2009 Flood Event August 18, 2009 Page 2 of 3

#### MSD Response

Metro Operations prevented some discharges and home flooding with the use of pumps and tanker trucks. Metro Operations and I&FP worked in tandem to isolate the nature of reported problems and swiftly aid MSD customers wherever possible. Staff from Engineering and RS performed reconnaissance to provide information to Management. MSD activated its Emergency Response room, which was staffed with representatives from all departments to allow a coordinated response.

However, the magnitude of the rainfall resulted in over 2.6 billion gallons of combined sewer overflow from the 107 permitted CSO locations (see **Attachments E and F** for details) as well as approximately 55 million gallons of reported sewer overflows at 386 other locations within the system, excluding private property and lateral issues. Some CSO flow monitors experienced issues as a result of the high flows and did not record discharges. However, the rainfall from the event was simulated within the combined sewer hydraulic model to predict the CSO volumes for all CSO's. **Attachments I and J** provide details on the discharge work orders initiated by problem code and discharge volumes to the Waters of the U.S. by asset type. Due to the problems encounter with travel among sites and the volume of discharges, some initial discharge reports did not meet the 24 hour deadline.

During and following the storm, MSD hauled over 800,000 gallons of stormwater and sewage (mostly from a viaduct flood pump station that was flooded) and 860,000 gallons from the sanitary sewer area (see **Attachment G** for haul locations and volumes). The Jeffersontown siphon did not discharge during this event as this part of the County did not received nearly as much rainfall (siphon level graph can be viewed in **Attachment K**).

The storm that hit Louisville on August 4<sup>th</sup>, 2009 over its combined sewer area simply overwhelmed the

combined sewer and drainage system with sudden, intense rainfall in conjunction saturated ground from a wet summer. Very little time or effective remedies are available to alleviate flooding or sewer overflows for this type of storm. The storm report from the National Weather Service, including flash flood reports and times, has been provided in **Attachment L**.

#### <u>Damages and System Issues</u>

Many residents and businesses in the Louisville combined sewer area are currently recovering from damages



sustained from the August 4<sup>th</sup>, 2009 rain event. The main branch of the Louisville Free Public Library suffered damages in excess of \$5 million. The University of Louisville campus and various neighborhoods also had extensive flooding issues, and the cleanup effort in the aftermath of the storm

August 4<sup>th</sup>, 2009 Flood Event August 18, 2009 Page 3 of 3

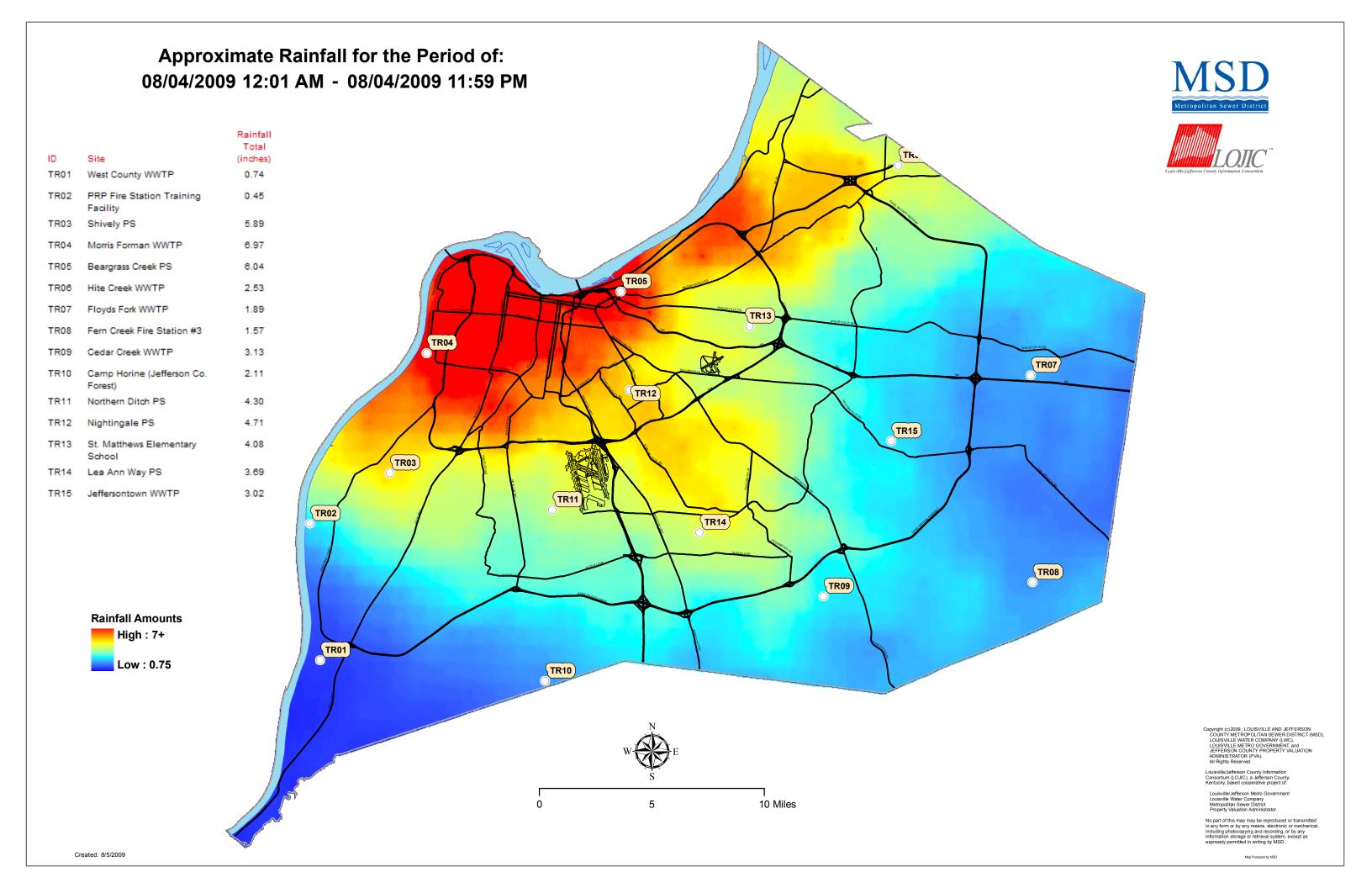
is focused on appropriate disposal efforts and proper training and education of volunteers and property owners on the health threats associated with damaged items, such as mold.

MSD has been inspecting sewer assets that carried some of the highest flows during the storm and have discovered the collapse of a 96-inch sewer along East Broadway, a main downtown thoroughfare. This line is currently being repaired under an emergency contract. In addition, several baffles on CSO solids and floatables controls have been repaired and electrical controls at several pump stations are being inspected. MSD was fortunate to sustain relatively little damage to its infrastructure in comparison to much of the community. Representative photographs of the event are presented in **Attachment M.** As additional information or issues are discovered, they will be reported in a revised version of this memo in the next quarterly report.

jtg/00 – August 4<sup>th</sup> Rain Event Summary.doc

cc: File

# Attachment A Rainfall Maps with Spatial Distribution and Rain Gauge Information



# Attachment B Rainfall Frequency Reports for the Gauges and Watershed Hit the Hardest

Storm Classification Report for Rain Gauge Data



### Louisville and Jefferson County Metropolitan Sewer District

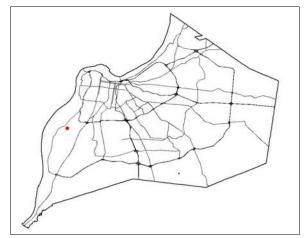
Run Time: 10:18:11 AM Run Date: 8/4/2009

Area

**TR03** 

**Start Date** 08/03/2009

End Date 08/05/2009



1 hr	Start 8/4/2009 9:15:00 AM	<b>End</b> 8/-	4/2009 10:15:00 AM	Rain Total 4.91		
Standard	Low Frequency	Low Value	High Frequency	High Value		
Atlas 14	1000 Year	3.83	> 1000 Year	100		
Bulletin 71	500 Year	4.4	> 500 Year	100		
TP-40	500 Year	3.4	> 500 Year	100		
3 hr	Start 8/4/2009 9:00:00 AM	<b>End</b> 8/-	4/2009 12:00:00 PM	Rain Total 5.13		
Standard	Low Frequency	Low Value	High Frequency	High Value		
Atlas 14	500 Year	4.96	1000 Year	5.48		
Bulletin 71	100 Year	4.56	500 Year	6		
TP-40	500 Year	4.6	> 500 Year	100		
6 hr	<b>Start</b> 8/4/2009 9:00:00 AM	End 8/	4/2009 3:00:00 PM	Rain Total 5.13		
Standard	Low Frequency	Low Value	High Frequency	High Value		
Atlas 14	100 Year	4.83	200 Year	5.41		
Bulletin 71	50 Year	4.57	100 Year	5.34		
TP-40	100 Year	4.5	500 Year	5.4		
12 hr	<b>Start</b> 8/4/2009 9:00:00 AM	End 8/	4/2009 9:00:00 PM	Rain Total 5.13		
Standard	Low Frequency	Low Value	High Frequency	High Value		
Atlas 14	50 Year	5.05	100 Year	5.7		
	2577	4.45	50 Year	5.31		
Bulletin 71	25 Year	4.43	30 Tear	3.31		

Tuesday, August 04, 2009 Page 1 of 2

Storm Classification Report for Rain Gauge Data



### Louisville and Jefferson County Metropolitan Sewer District

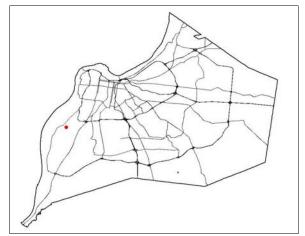
Run Time: 10:18:11 AM Run Date: 8/4/2009

Area

**TR03** 

**Start Date** 08/03/2009

End Date 08/05/2009



24 hr	Start 8/4/2009 9:00:00 A	AM End 8	8/5/2009 9:00:00 AM	Rain Total 5.13
Standard	Low Frequency	Low Value	High Frequency	High Value
Atlas 14	10 Year	4.52	25 Year	5.43
Bulletin 71	10 Year	4.22	25 Year	5.22
TP-40	10 Year	4.5	25 Year	5.2
48 hr	Start 8/4/2009 9:00:00 A	AM End 8	8/6/2009 9:00:00 AM	Rain Total 5.13
Standard	Low Frequency	Low Value	High Frequency	High Value
	Low Frequency	Low value	mgn rrequency	iligii value
Atlas 14	5 Year	4.58	10 Year	5.3
Atlas 14 Bulletin 71				O
	5 Year	4.58	10 Year	5.3

Tuesday, August 04, 2009 Page 2 of 2



### Louisville and Jefferson County Metropolitan Sewer District

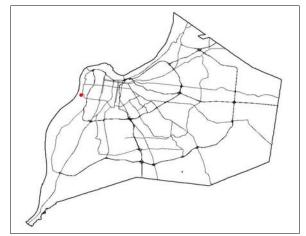
Run Time: 10:19:25 AM Run Date: 8/4/2009

Area

**TR04** 

**Start Date** 08/03/2009

End Date 08/05/2009



			100	
1 hr	Start 8/4/2009 8:55:00 AM	M End 8/4	/2009 9:55:00 AM	Rain Total 4.88
Standard	Low Frequency	Low Value	High Frequency	High Value
Atlas 14	1000 Year	3.83	> 1000 Year	100
Bulletin 71	500 Year	4.4	> 500 Year	100
TP-40	500 Year	3.4	> 500 Year	100
3 hr	Start 8/4/2009 8:20:00 AM	M End 8/4	2/2009 11:20:00 AM	Rain Total 6.52
Standard	Low Frequency	Low Value	High Frequency	High Value
Atlas 14	1000 Year	5.48	> 1000 Year	100
Bulletin 71	500 Year	6	> 500 Year	100
TP-40	500 Year	4.6	> 500 Year	100
6 hr	Start 8/4/2009 8:20:00 AM	M End 8/4	2/2009 2:20:00 PM	Rain Total 6.52
Standard	Low Frequency	Low Value	High Frequency	High Value
Atlas 14	500 Year	6.24	1000 Year	6.93
Bulletin 71	100 Year	5.34	500 Year	7
TP-40	500 Year	5.4	> 500 Year	100
12 hr	Start 8/4/2009 8:20:00 AM	M End 8/4	2/2009 8:20:00 PM	Rain Total 6.52
Standard	Low Frequency	Low Value	High Frequency	High Value
Atlas 14	200 Year	6.38	500 Year	7.35
Bulletin 71	100 Year	6.19	500 Year	8.2

Tuesday, August 04, 2009 Page 1 of 2



### Louisville and Jefferson County Metropolitan Sewer District

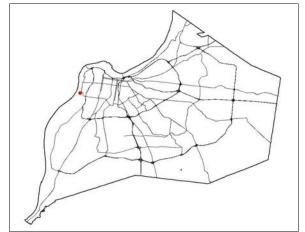
Run Time: 10:19:25 AM Run Date: 8/4/2009

Area

**TR04** 

**Start Date** 08/03/2009

End Date 08/05/2009



		L		
24 hr	Start 8/4/2009 8:20:00 A	M End	8/5/2009 8:20:00 AM	Rain Total 6.52
Standard	Low Frequency	Low Value	High Frequency	High Value
Atlas 14	50 Year	6.19	100 Year	7.01
Bulletin 71	50 Year	6.1	100 Year	7.12
TP-40	100 Year	6.2	500 Year	7.1
48 hr	Start 8/4/2009 8:20:00 A	M End	8/6/2009 8:20:00 AM	Rain Total 6.52
Standard	Low Frequency	Low Value	High Frequency	High Value
Atlas 14	25 Year	6.33	50 Year	7.17
Bulletin 71	50 Year	6.52	100 Year	7.58
TP-40	50 Year	6.4	100 Year	7.3

Tuesday, August 04, 2009 Page 2 of 2



### Louisville and Jefferson County Metropolitan Sewer District

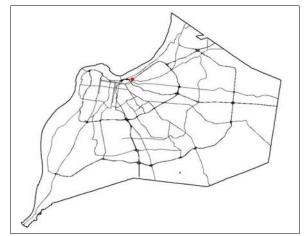
Run Time: 10:20:08 AM Run Date: 8/4/2009

Area

**TR05** 

**Start Date** 08/03/2009

End Date 08/05/2009



1 hr	Start 8	/4/2009 8:10:00 A	AM End	8/4/2009 9:10:00 AM	Rain Total	3.13
Standard	Lo	ow Frequency	Low Value	High Frequency	High Va	alue
Atlas 14		200 Year	3.13	500 Year	3.52	
Atlas 14		100 Year	2.85	200 Year	3.13	
Bulletin 71		50 Year	2.87	100 Year	3.35	
TP-40		100 Year	2.8	500 Year	3.4	
3 hr	Start 8	/4/2009 7:20:00 A	AM End	8/4/2009 10:20:00 AM	Rain Total	5.27
Standard	Lo	ow Frequency	Low Value	High Frequency	High Va	alue
Atlas 14		500 Year	4.96	1000 Year	5.48	
Bulletin 71		100 Year	4.56	500 Year	6	
TP-40		500 Year	4.6	> 500 Year	100	
6 hr	Start 8.	/4/2009 7:20:00 A	AM End	8/4/2009 1:20:00 PM	Rain Total	5.27
Standard	Lo	ow Frequency	Low Value	High Frequency	High Va	alue
Atlas 14		100 Year	4.83	200 Year	5.41	
Bulletin 71		50 Year	4.57	100 Year	5.34	
TP-40		100 Year	4.5	500 Year	5.4	
12 hr	Start 8	/4/2009 7:20:00 A	AM End	8/4/2009 7:20:00 PM	Rain Total	5.27
Standard	Lo	ow Frequency	Low Value	High Frequency	High Va	alue
Atlas 14		50 Year	5.05	100 Year	5.7	
Bulletin 71		25 Year	4.45	50 Year	5.31	
TP-40		50 Year	4.9	100 Year	5.4	

Tuesday, August 04, 2009 Page 1 of 2



### Louisville and Jefferson County Metropolitan Sewer District

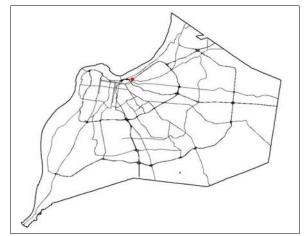
Run Time: 10:20:08 AM Run Date: 8/4/2009

Area

**TR05** 

**Start Date** 08/03/2009

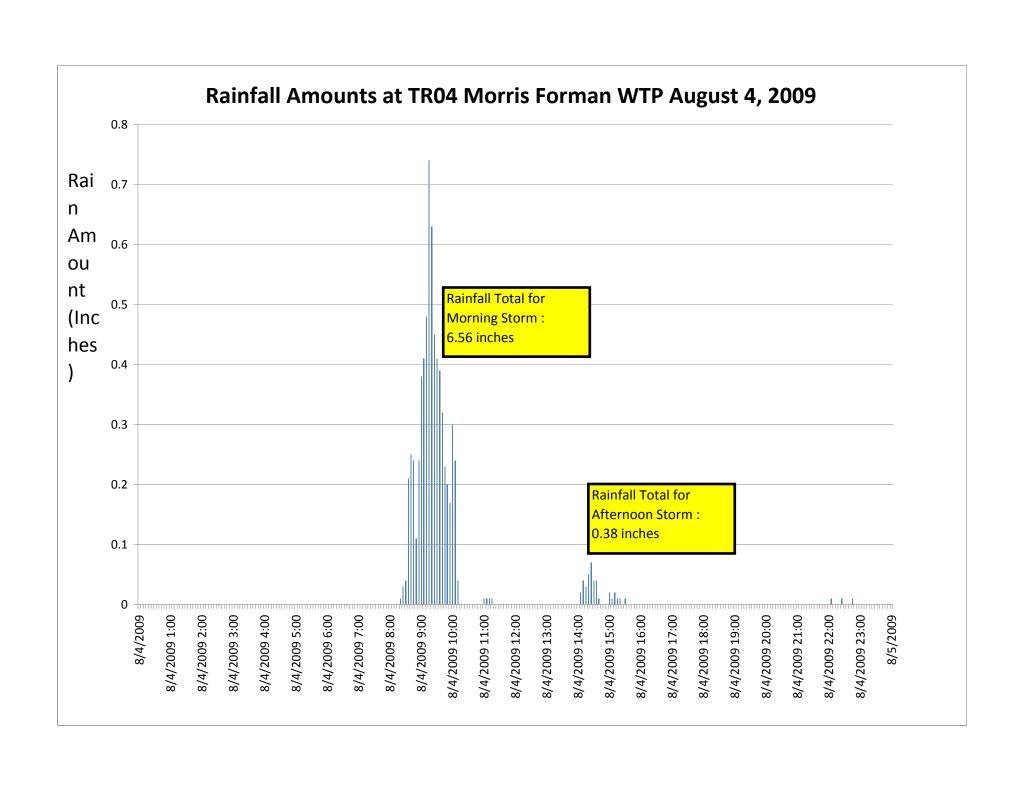
End Date 08/05/2009

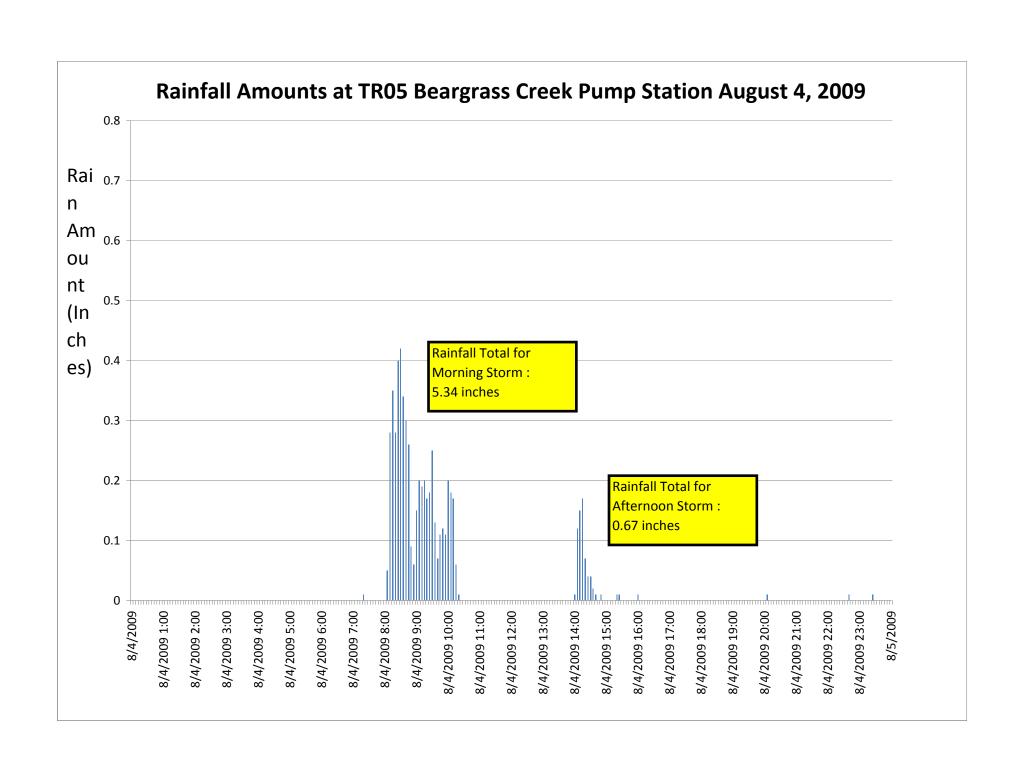


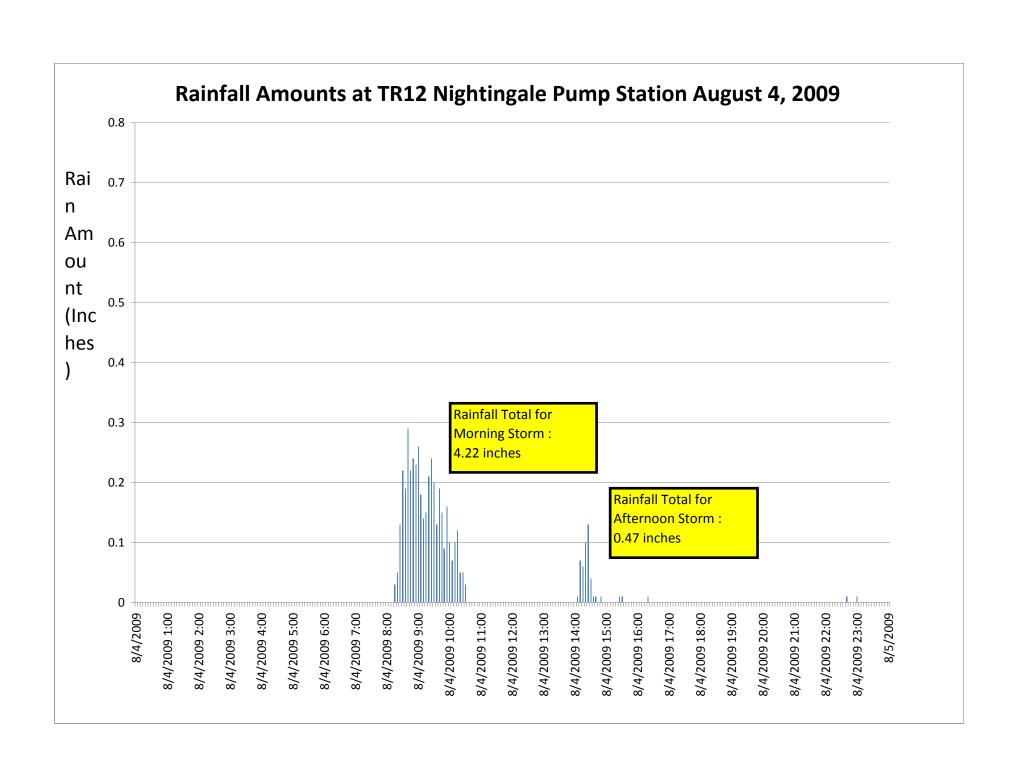
		L		
24 hr	Start 8/4/2009 7:20:00 A	M End 8/5	5/2009 7:20:00 AM	Rain Total 5.27
Standard	Low Frequency	Low Value	High Frequency	High Value
Atlas 14	10 Year	4.52	25 Year	5.43
Bulletin 71	25 Year	5.22	50 Year	6.1
TP-40	25 Year	5.2	50 Year	5.7
48 hr	Start 8/4/2009 7:20:00 A	M End 8/0	5/2009 7:20:00 AM	Rain Total 5.27
Standard	Low Frequency	Low Value	High Frequency	High Value
Atlas 14	5 Year	4.58	10 Year	5.3
Bulletin 71	10 Year	4.56	25 Year	5.58
TP-40	10 Year	5.1	25 Year	6.1

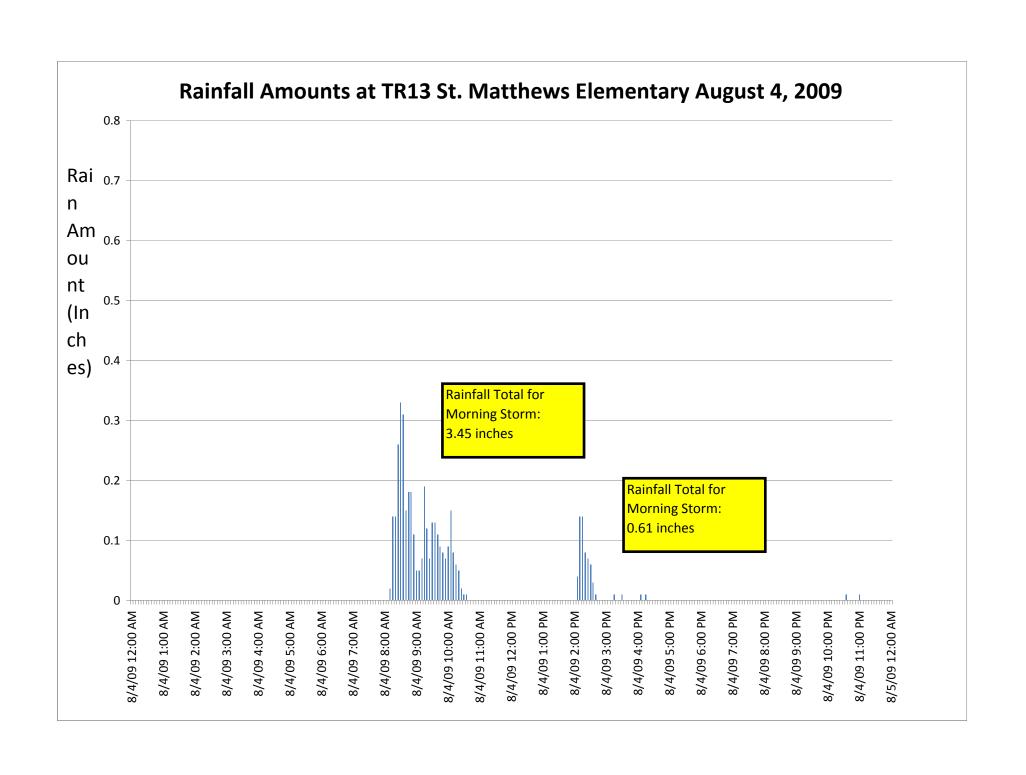
Tuesday, August 04, 2009 Page 2 of 2

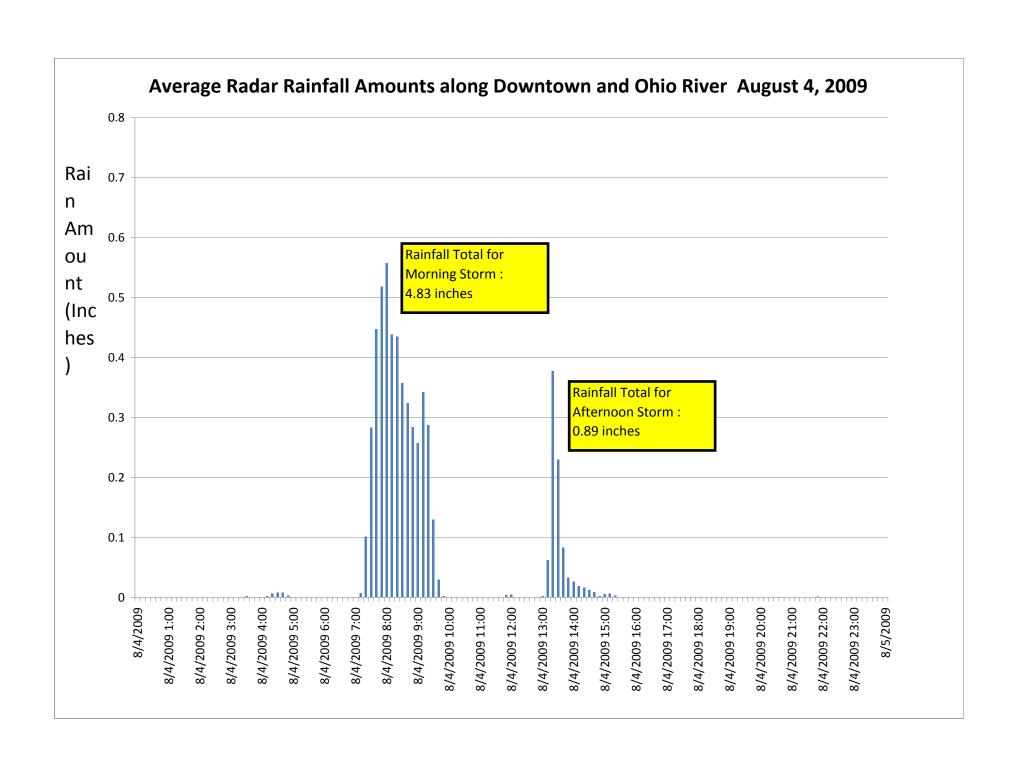
### Attachment C Rainfall Timeline in Several Areas Hit the Hardest



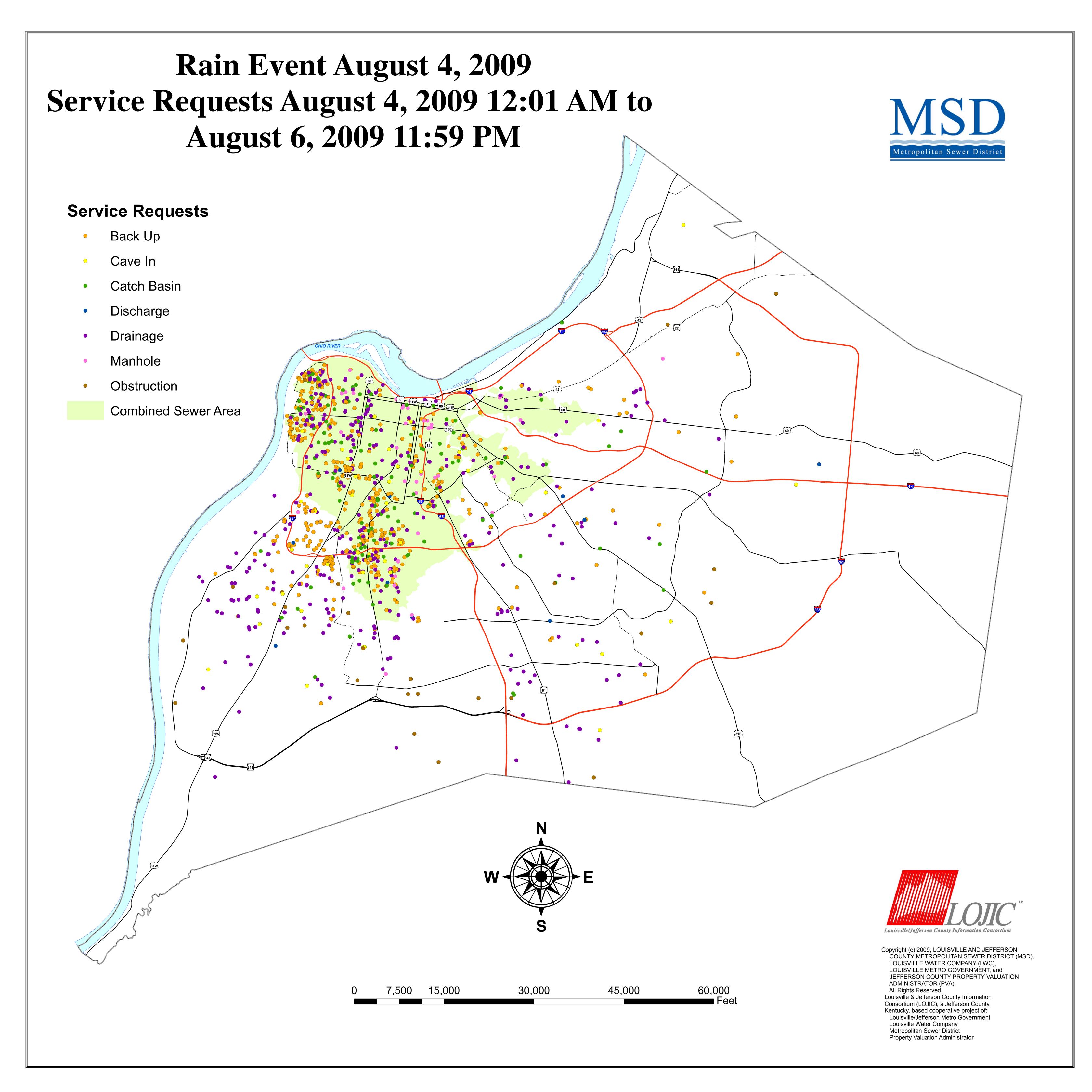




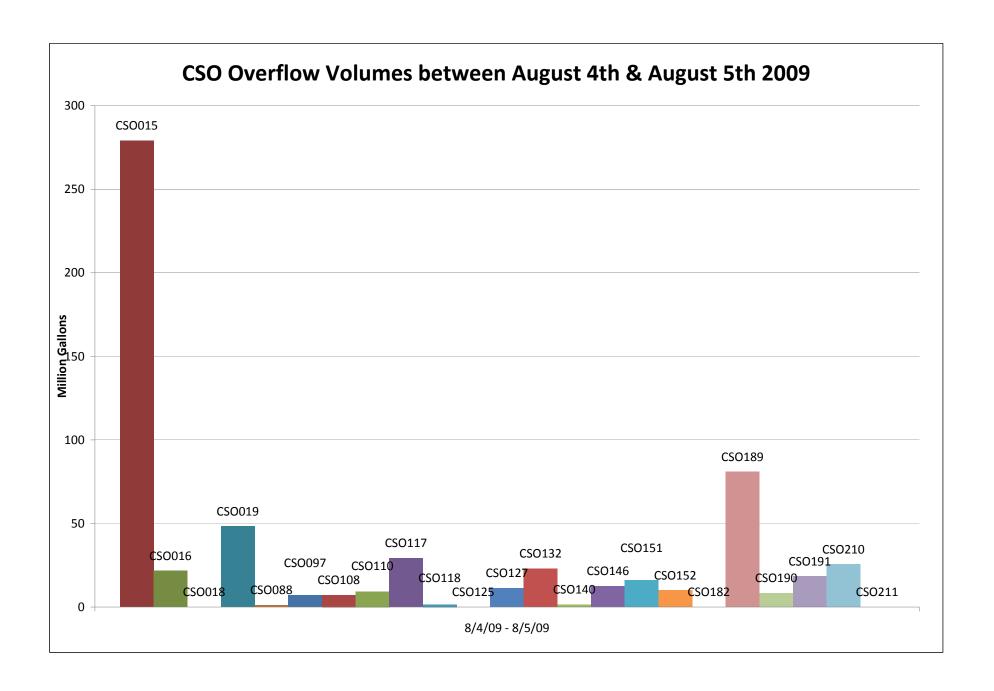




## Attachment D Customer Service Map for 72 Hours Following the Storm



### Attachment E CSO Flow Monitoring Data Available for the Storm



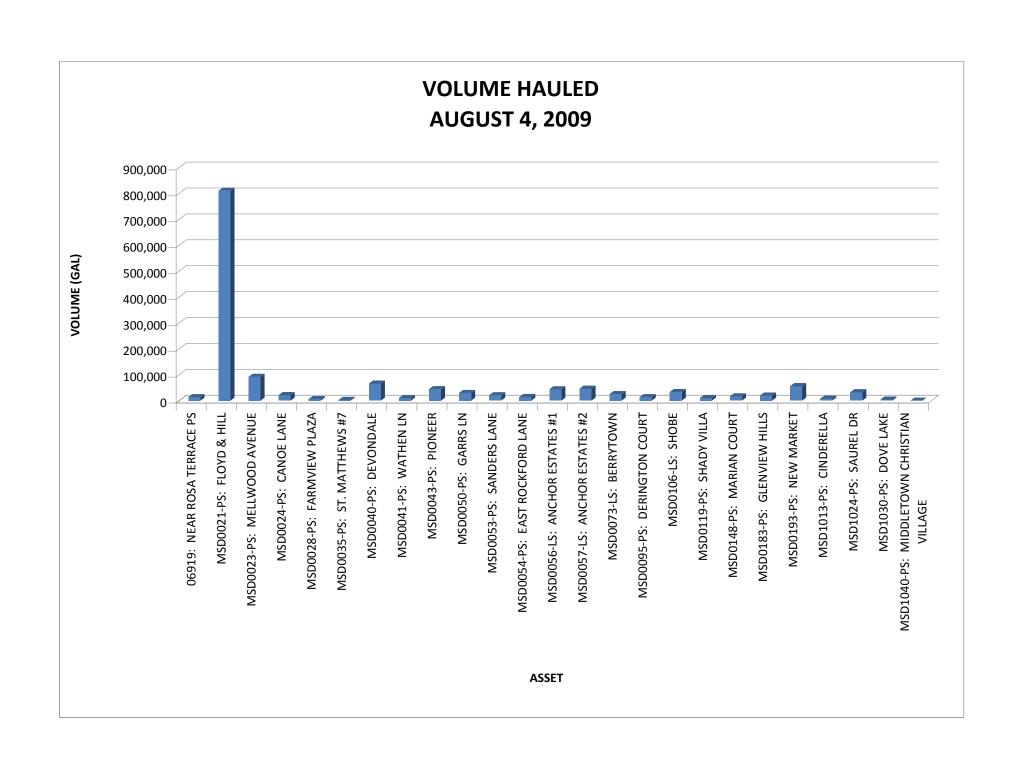
### Attachment F Modeled Approximate CSO Flow for Major Areas

Gallons Down over CSS	Model	5.6 BG
Total Combined Sewer Overflow	Model	2.6
Total Treated at MFWQTC	Measured	450 MG
Infiltration/Direct Stream Runoff Volume	Model	2.55 BG

#### **Approximate Overflow & Treatment within the CSS**

<u>Location</u>	<u>Source</u>	Volume (MG)
CSO015 & 191	Model	600
MFWQTC Treated	Measured	450
CSO016, 210, 211	Model/Measured	300
CSO104, 105	Model	100
CSO189	Measured	100
CSO019	Measured	80
Downtown CSOs	Model/Measured	200
CSO020 & 62	Model	20
Beargrass CSOs	Model/Measured	500

### Attachment G Hauling Volume Chart by Location



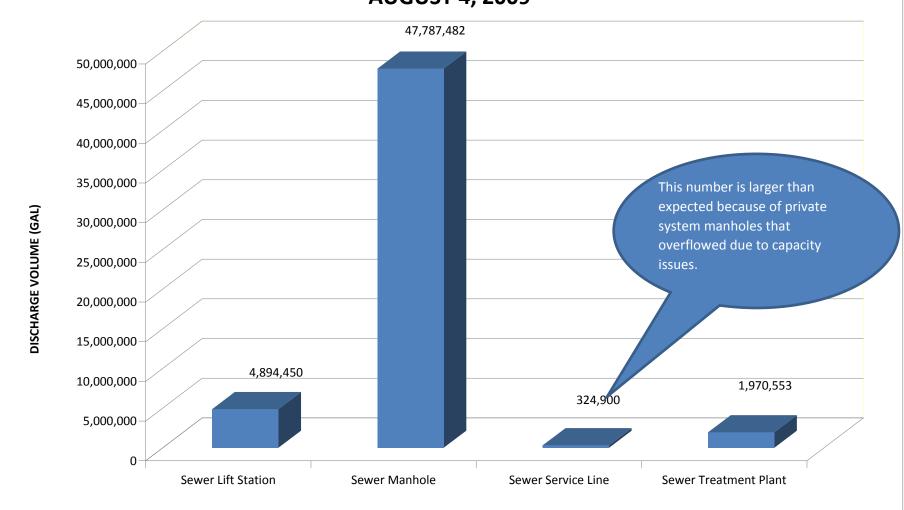
## Attachment H Significant Event Log Explaining Major Occurrences During the Storm

DATE:	TIME:	MESSAGE:
		Small to moderate cell tracking across northeast portion of Jefferson County. Two hour prediction calls for .20" in northeast portion of Metro Louisville.
8/4/2009		Heavy cell moving into northeast portion of Jefferson County. Two hour prediction calls for .50" in northeast portion of Metro Louisville.
8/4/2009	1	Severe Thunderstorm Warning issued for northeastern Jefferson County Kentucky
		Severe thunderstorm WARNING for northeast Jeffereson County until 8 AM.
		Flash Flood Warning issued for northeastern Jefferson County Kentucky
		Severe Thunderstorm Warning issued for Jefferson County, Kentucky
		60mph winds at Interstate 64 and Hurstbourne in Louisville
		Quarter sized hail at the YMCA in Jeffersonville.
		HEAVY cell tracking across Metro Louisville, two hour prediction calls for 1.5" to 2" across Metro Louisville.
		Severe Weather Statement issued for Jefferson County, Kentucky
		Flash Flood Warning issued for western Jefferson County Kentucky
8/4/2009		Water rescue on East Grey Street and several feet of water on Second Street in Louisville
	T-ma	Dime sized hail in Louisville.
	9:15:00 AM	Interstate 65 closed in Louisville
8/4/2009	9:18:00 AM	Flash Flood Warning issued for southern Jefferson County, Kentucky
8/4/2009	9:24:00 AM	Flash Flood Warning issued for northeastern Jefferson County Kentucky
8/4/2009	9:37:17 AM	Rainfall accumulation across Metro Louisville is 2" to 4". Will need reconnaissance called into 540-6462 before 11 AM.
8/4/2009	9:37:21 AM	2" to 4" down across Metro Louisville. Will northeasted reconnaissance called into 540-6462 before 11
8/4/2009	9:40:00 AM	Flash Flood Statement issued for Flood Emergency in Louisville
8/4/2009	9:44:00 AM	Flash Flood Statement issued for Flood Emergency in southern Jefferson County, Kentucky
8/4/2009	9:49:00 AM	Torrential rain in Louisville.
8/4/2009	9:53:00 AM	Nickel sized hail in Shively.
8/4/2009	9:59:44 AM	Surface flooding reported thouroughout Jefferson County, currently working 40 high wet wells, 4 powerfailures. Treatment plant flows are elevated.
8/4/2009	10:00:00 AM	All I&FP Field personnel and Supervisors out in the field. Blocking dangerous roads and providing recon information
8/4/2009	10:00:00 AM	The pumps are running in Beechwood Village and Highgate Springs and Fleet is providing assistance to make sure they remain fully functional
8/4/2009	10:00:00 AM	Power at CMF has been touch and go. Laptops are running to prevent any delay in dispatch. Rear of building and parking lot is experiencing flooding.
8/4/2009	10:15:00 AM	Cars submerged in downtown parking lot in Louisville
8/4/2009	10:23:00 AM	Torrential rain in Valley Station,
8/4/2009	10:36:33 AM	Currently working 55 high wet wells, and 4 powerfailures. Two hour prediction calls for additional .50" to 1" mostly across southern portion of Jefferson County.
8/4/2009	1	MFWQTC showing signs of internal flooding - Final Effluent PS placed in service
8/4/2009	10:40:00 AM	Several roads have one to two feet of water on them, and there are many flooded basements near Churcholl Downs
8/4/2009	1	Gagle Ave Basin: Full, but draining
8/4/2009		I&FP has received 435 requests at this time. Staff is experiencing difficulty getting around due to flooding. Staff trapped on I65
8/4/2009	T	SF Dam: OK and draining
8/4/2009	12:46:03 PM	Six inches of rain in 75 min. at Morris Forman - no power at South Western Pump Station - Main Diversion sluice gate not operational
8/4/2009	12:48:00 PM	Breckinridge Ln: 1/2 full
8/4/2009	12:54:00 PM	Hikes Ln @ 2403, 2255, 3609 all draining
8/4/2009	1:00:00 AM	Champions Trace (Bashford Manor Area): Beargrass Creek full, but draining 1

DATE:	TIME:	MESSAGE:
8/4/2009	1:00:39 PM	Currently working 67 high wet wells, two hour prediction calls for additional 1" to 2" across most of Metro Louisville.
8/4/2009	1:04:00 AM	Fountain Square: Beargrass Creek full
8/4/2009	1:21:00 AM	Richland Ave: 3/4 full but draining
8/4/2009	1:24:54 PM	The Disaster Response Center is being activated. Please report as soon as possible. Set up staff needs to be in the room first and all others should wait in the hallway.
8/4/2009	1:30:00 AM	Judge Blvd (Roberson Run): Basin draining. No water in basin other than flowage way
8/4/2009	1:35:00 AM	Laurel Ridge: Water receded into Southern Ditch
8/4/2009	1:37:38 PM	Two hour prediction calls for 2" across most of Metro Louisville, expect winds to 50MPH with this next front moving in now.
8/4/2009	1:47:41 PM	Need reconnaissance called into 540-6462 before 2.
8/4/2009	1:59:31 PM	Disaster Response Center activated, Submit call in latest update report.
8/4/2009	2:00:00 AM	Melco Basin: Northern Ditch & basin full, but draining
8/4/2009	2:01:15 PM	Due to storm & flooding, Staff is to remain at work until relieved.
8/4/2009	2:12:14 PM	Latest 2 hour prediction calls for 4" to 5" of rainfall mostly in northeast portion of the county, but 4" across ALL of Metro Louisville, sewer system is full, protect homes.
8/4/2009	2:57:00 PM	I&FP has received 623 requests. Pumps at Beechwood/Highgate will be monitored through 3rd shift. South Fork Dam working fine. CNG pumps out of service at CMF.
8/4/2009	2:44:50 PM	Front is losing intesity, 2 hour prediction calls for additional .50" to 1" mostly along southern portion of Jefferson County.
8/4/2009	3:04:16 PM	Manholes may be overflowing in street at Fountain Drive apts. Please send someone to see if we need to report additional locations.
8/4/2009	3:15:10 PM	Heavier cell tracking to our southwest currently. Two hour prediction calls for .15" to .20" across most of Metro Louisville.
8/4/2009	3:56:00 AM	SF Dam: OK water was receding
8/4/2009	4:02:00 AM	Breckinridge Ln water receded
8/4/2009	4:10:00 AM	Hikes Ln @ 2403, 2255, 3609 OK and draining
8/4/2009	4:10:00 AM	Champions Trace (Bashford Manor Area): Beargrass Creek full, but draining
8/4/2009	4:12:00 AM	Fountain Square: Beargrass Creek water had receded from area
8/4/2009	4:30:00 AM	Judge Blvd (Roberson Run): Basin draining. No water in basin other than flowage way
8/4/2009	4:34:00 AM	Laurel Ridge: Water receded into Southern Ditch
8/4/2009	4:45:00 AM	Melco Basin: Northern Ditch & basin full, but draining
8/4/2009	4:45:00 AM	Western FPS electric service failed, but has been restored
8/4/2009	5:15:13 PM	Disaster Response Center shut down.
8/4/2009	9:34:00 PM	Currently working 44 high wet wells, treatment plant flows are maxed out. Two hour prediction calls for .50" across most of Metro Louisville.
8/5/2009	7:56:51 AM	MCneely Standard Operating Procedure training will need to be rescheduled due to weather event.
8/5/2009	8:45:00 AM	8 of the 11 pumps still running in Beechwood/Highgate. Crew at the library helping them pump out the remaining water in the basement. Crews are running Hot Spots and focusing on clearing debris from MSD assets. I&FP has received 833 service requests.
8/5/2009	9:00:00 AM	Power restored to SWPS
8/6/2009	4:22:41 PM	Down to a total of 4 high wet wells, treatment plant flows still elevated but are stable at this time.
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# Attachment I Discharges to the Waters of the US by Asset Type



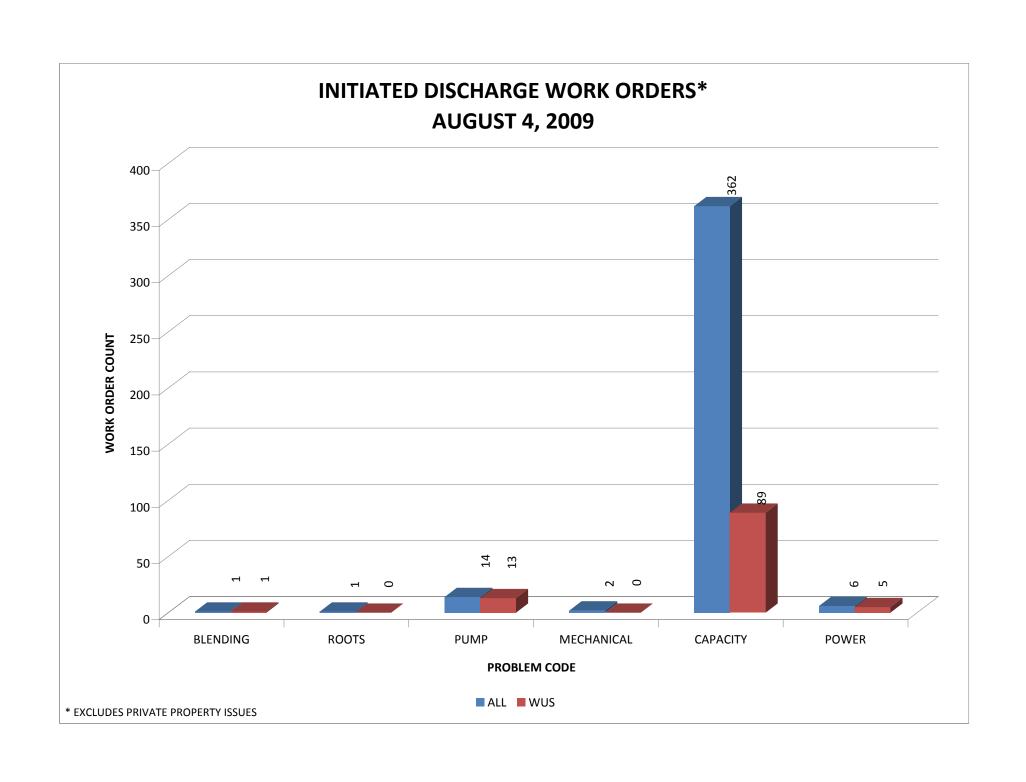


\* EXCLUDES PRIVATE PROPERTY

**ASSET TYPE** 

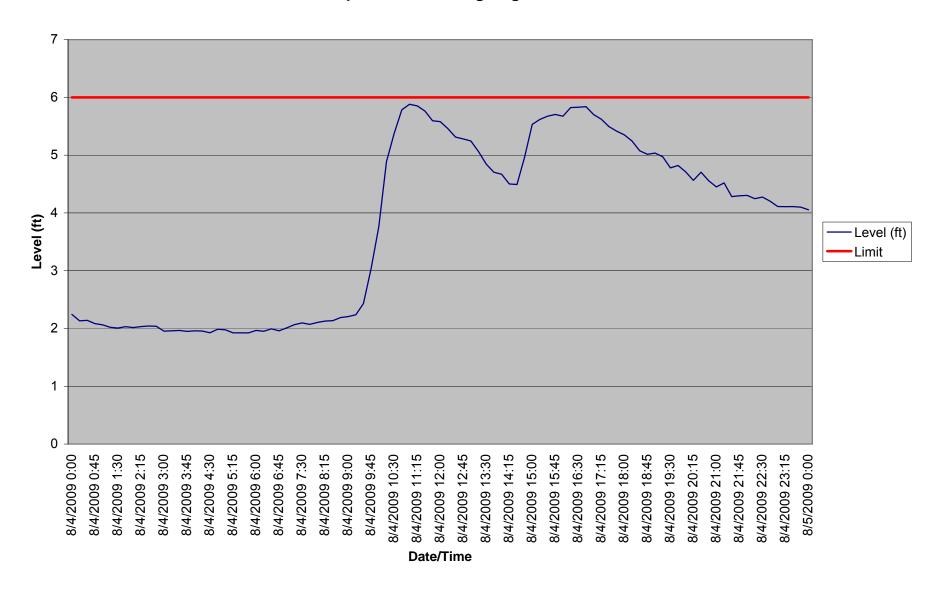
ICCLIEC

## Attachment J Initiated Discharge Work Orders by Problem Code Excluding Private Property Issues



## Attachment K Jeffersontown Siphon Level During the Storm

#### J-Town Siphon Level during August 4th Rain Event



### Attachment L National Weather Service Preliminary Storm Report

### National Weather Service Weather Forecast Office Louisville, KY

Record-breaking heavy rains fell in Jefferson County, Kentucky, as well as Floyd and Clark Counties in Indiana as strong thunderstorms regenerated over the area. Rainfall amounts up to 6 inches fell between 7am and 10am EDT, especially in central Louisville. Five inches of rain fell in 90 minutes from 7:45am to 9:15am, and rainfall rates up to an astounding 8.80 inches per hour were reported.

There were no fatalities or injuries. A woman and two children were trapped and then rescued in New Albany. Ten kittens and a dog at the metro animal services shelter in Louisville drowned when the building flooded.

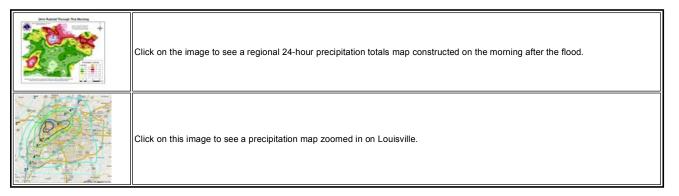
In Louisville, nearly 200 people were rescued by emergency workers from the tops of cars and houses. About 50 people were rescued by boat from a University of Louisville administrative office building. Two children were pulled from a swollen creek when neighbors saw them get swept away as they walked too close to the stream. Water was reported up to several feet deep in parts of Louisville. Cars were submerged in a downtown parking lot. Major flooding affected Churchill Downs and surrounding neighborhoods. Interstates 65 and 264 were closed. Floodwaters poured into homes and engulfed Louisville's main public library downtown, several area hospitals, horse barns at Churchill Downs, and the University of Louisville campus. Thousands of books were destroyed at the Louisville downtown library, with a million dollars in damage.

Other water rescues were also reported in New Albany as well as in Sellersburg. Massive flooding occurred in New Albany, where cars were set alfoat. Up to three feet of water was on the streets of Jeffersonville, stalling vehicles. Water entered homes and businesses in Lanesville.

Officially at Standiford International Airport (SDF), 4.53 inches of rain fell, which broke the old record for highest rainfall in a single day in August (set back in 1879). Three inches of that rain fell in just one hour.

Dozens of flood warnings and statements were issued by the Louisville office of the National Weather Service. The average time between the issuance of a flood warning and the beginning of flooding was 63 minutes. The weather office received e-mails from the public thanking the meteorologists for issuing the flood products in a timely manner to give people ample warning of the unfolding disaster.

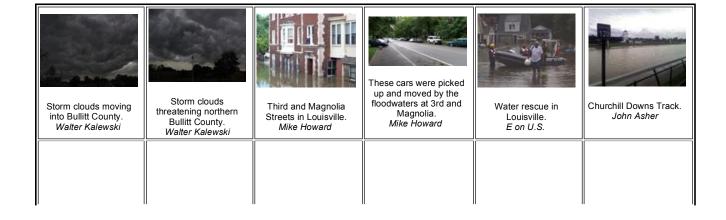
Below is a rainfall map constructed on the day of the flood. Note the amazing bullseye of torrential rainfall centered right over downtown Louisville and New Albany.



Timeline of the day's events, and products issued by your National Weather Service office in Louisville.

#### Photos:

(click on the image for a larger version)





Louisville flooding. NWS



University of Louisville. E on U.S.



University of Louisville.

Mike Howard



Elkin and Thirteenth Streets in New Albany. Randy Lescault



KY 362 near Pewee Valley. Brandon Terry



Churchill Downs Entrance. John Asher

#### **Preliminary Local Storm reports:**

0545 AM HAIL 2 E PROSPECT 38.35N 85.57W 88/04/2009 E0.75 INCH OLDHAM KY TRAINED SPOTTER

MARBLE SIZED HAIL JUST EAST OF PROSPECT.

0745 AM HAIL CHARLESTOWN 38.45N 85.67W 08/04/2009 E1.00 INCH CLARK IN AMATEUR RADIO

QUARTER TO GOLF BALL SIZE HAIL.

0750 AM HAIL SELLERSBURG 38.39N 85.76W 08/04/2009 E1.00 INCH CLARK IN LAW ENFORCEMENT

AT THE POLICE DEPARTMENT.

TREES DOWN NEAR INTERSTATE 65 AT EXIT 9.

0814 AM FLASH FLOOD JEFFERSONVILLE 38.30N 85.73W 08/04/2009 CLARK IN TRAINED SPOTTER

STREAMS OUT OF BANKS.

LARGE LIMBS DOWN. ESTIMATED 60 MPH GUST. AT I-64 AND HURSTBOURNE

0821 AM FLASH FLOOD SELLERSBURG 38.39N 85.76W 08/04/2009 CLARK IN BROADCAST MEDIA

WATER RESCUE FROM A VEHICLE IN LAKE SIDE ESTATES.

0823 AM FLASH FLOOD CHARLESTOWN 38.45N 85.67W 08/04/2009 CLARK IN BROADCAST MEDIA

HIGH STREET IS CLOSED DUE TO FLOODING.

BOWMAN ROAD IS CLOSED BY HIGH WATER BETWEEN SCOTTSBURG AND AUSTIN.

0828 AM HAIL JEFFERSONVILLE 38.30N 85.73W 08/04/2009 E1.00 INCH CLARK IN BROADCAST MEDIA

AT THE YMCA.

0850 AM FLASH FLOOD NEW ALBANY 38.30N 85.83W 08/04/2009 FLOYD IN EMERGENCY MNGR

CARS FLOATING ON SCRIBNER... MASSIVE DOWNTOWN FLOODING

WATER RESCUE ON EAST GREY STREET. SEVERAL FEET OF WATER ON SECOND STREET.

0852 AM HAIL LOUISVILLE 38.22N 85.74W 08/04/2009 E0.75 INCH JEFFERSON KY AMATEUR RADIO

0904 AM HEAVY RAIN JEFFERSONVILLE 38.30N 85.73W 08/04/2009 M3.55 INCH CLARK IN NWS EMPLOYEE

0906 AM FLASH FLOOD JEFFERSONVILLE 38.30N 85.73W 08/04/2009 CLARK IN BROADCAST MEDIA

3 FEET OF WATER ON EASTERN BOULEVARD... VEHICLE STUCK

0915 AM FLASH FLOOD LOUISVILLE 38.22N 85.74W 08/04/2009 JEFFERSON KY TRAINED SPOTTER

I-65 CLOSED DOWN IN DOWNTOWN. OVER 5 INCHES OF RAIN REPORTED IN THE LAST 90 MINUTES AT TIME OF REPORT

0930 AM FLASH FLOOD SELLERSBURG 38.39N 85.76W 08/04/2009 CLARK IN BROADCAST MEDIA

HIGHWAY 31 IS CLOSED DUE TO HIGH WATER FROM SELLERSBURG TO HENRYVILLE.

0932 AM FLASH FLOOD LOUISVILLE 38.22N 85.74W 08/04/2009 JEFFERSON KY NWS EMPLOYEE

BROWNSBORO ROAD IS CLOSED WEST OF CLIFTON.

WOMAN AND TWO CHILDREN TRAPPED AND RESCUED IN WATER ON VALLEY VIEW RD NEAR CHERRY STREET

0949 AM HEAVY RAIN LOUISVILLE 38.22N 85.74W 08/04/2009 M5.34 INCH JEFFERSON KY MESONET

RAINFALL SINCE 7 AM. AUTOMATED GAGE IN THE RUBBERTOWN AREA.

0953 AM HAIL SHIVELY 38.20N 85.81W 08/04/2009 E0.88 INCH JEFFERSON KY BROADCAST MEDIA

1009 AM LIGHTNING LOUISVILLE 38.22N 85.74W 08/04/2009 JEFFERSON KY TRAINED SPOTTER

4 ALARM APARTMENT FIRE ON HURSTBOURNE LANE NEAR INTERSTATE 64.

1012 AM FLASH FLOOD NEW ALBANY 38.30N 85.83W 08/04/2009 FLOYD IN BROADCAST MEDIA

WATER RESCUE CORYDON PIKE JUST SOUTH OF NEW ALBANY

1015 AM FLASH FLOOD LOUISVILLE 38.22N 85.74W 08/04/2009 JEFFERSON KY BROADCAST MEDIA

800 BUILDING DOWNTOWN CARS SUBMERGED IN PARKING LOT

1018 AM FLASH FLOOD SHIVELY 38.20N 85.81W 08/04/2009 JEFFERSON KY BROADCAST MEDIA

ROADS FLOODED IN SHIVELY

1023 AM HEAVY RAIN VALLEY STATION 38.10N 85.86W 08/04/2009 E1.00 INCH JEFFERSON KY BROADCAST MEDIA

ESTIMATED RAIN RATE 4 INCHES PER HOUR

1025 AM FLASH FLOOD JEFFERSONVILLE 38.30N 85.73W 08/04/2009 CLARK IN BROADCAST MEDIA

SEVERAL AREAS ARE CLOSED ALONG HIGHWAY 62 IN CLARK COUNTY

1040 AM FLASH FLOOD 2 S LOUISVILLE 38.20N 85.74W 08/04/2009 JEFFERSON KY BROADCAST MEDIA

NUMBER OF ROADS HAVE 1 TO 2 FEET OF WATER AND RESIDENTIAL FLOODING OF BASEMENTS NEAR CHURCHILL DOWNS

1105 AM FLASH FLOOD LANESVILLE 38.24N 85.98W 08/04/2009 HARRISON IN TRAINED SPOTTER

LITTLE INDIAN CREEK IN LANESVILLE FLOODING AND ENTERING BASEMENTS OF SOME BUILDINGS ON THE NORTH SIDE OF STATE ROAD 62.

1106 AM FLASH FLOOD HILLVIEW 38.07N 85.69W 08/04/2009 BULLITT KY EMERGENCY MNGR

ROAD BARRICADE AND CLOSURE HILLVIEW BLVD. BETWEEN TERRY ROAD AND EARLYWOOD ROAD ... 16 TO 18 INCHES OF SWIFTLY MOVING WATER OVER ROADWAY

1106 AM FLASH FLOOD ELIZABETH 38.13N 85.97W 08/04/2009 HARRISON IN TRAINED SPOTTER

BUCK CREEK IS COVERING SOME ROADS.

0145 PM TSTM WND GST SALEM 38.60N 86.10W 08/04/2009 E60 MPH WASHINGTON IN DEPT OF HIGHWAYS

NUMEROUS TREES DOWN ACROSS THE COUNTY

0153 PM FLASH FLOOD SCOTTSBURG 38.69N 85.78W 08/04/2009 SCOTT IN BROADCAST MEDIA

INTERSECTION OF HIGHWAY 31 AND 56 CLOSED DUE TO HIGH WATER.

0157 PM FLASH FLOOD SELLERSBURG 38.39N 85.76W 08/04/2009 CLARK IN BROADCAST MEDIA

WATER RESCUE FROM A VEHICLE ON HIGHWAY 31.

TREE ON HOUSE ON HARMONY LANDING ROAD. OCCUPANTS ARE TRAPPED INSIDE.

0212 PM TSTM WND DMG LOUISVILLE 38.22N 85.74W 08/04/2009 JEFFERSON KY BROADCAST MEDIA

8 INCH LIMB DOWNED AT TV STUDIO.

0215 PM FLASH FLOOD CANAAN 38.87N 85.30W 08/04/2009 JEFFERSON IN COUNTY OFFICIAL

COUNTY ROAD 250 IS IMPASSABLE. ROADS NEAR CREEKS JEFFERSON COUNTY ARE IMPASSABLE.

0215 PM FLASH FLOOD EDWARDSVILLE 38.28N 85.90W 08/04/2009 FLOYD IN DEPT OF HIGHWAYS

SEVERAL ROADS WASHED OUT TO ONE LANE ACROSS COUNTY... INCLUDING EDWARDSVILLE ROAD... CORYDON PIKE... AND TWO MILE LANE.

BRIDGES AND LOW WATER CROSSINGS IN THE BEDFORD AREA ARE UNDER WATER...INCLUDING HIGHWAYS 754 AND 625.

TREES DOWN AND POSSIBLY SOME STRUCTURAL DAMAGE.

NUMEROUS BUILDINGS WERE DAMAGED. TREES AND POWER LINES DOWN AND POWER POLES SNAPPED. NEAR THE INTERSECTION OF HIGHWAY 227 AND SEEBEE.

0233 PM HEAVY RAIN MADISON 38.76N 85.38W 08/04/2009 E3.00 INCH JEFFERSON IN CO-OP OBSERVER

3.00 INCHES AT CLIFTY CREEK SINCE THIS MORNING

0240 PM HEAVY RAIN JEFFERSONVILLE 38.30N 85.73W 08/04/2009 M5.50 INCH CLARK IN TRAINED SPOTTER

FELL SINCE 7 AM THIS MORNING.

0245 PM LIGHTNING CYNTHIANA 38.39N 84.30W 08/04/2009 HARRISON KY LAW ENFORCEMENT

LIGHTNING CAUSED A FIRE ON THE NORTH END OF THE COUNTY

0245 PM LIGHTNING CYNTHIANA 38.39N 84.30W 08/04/2009 HARRISON KY EMERGENCY MNGR

BARN BURNED ON RENAKER ROAD DUE TO LIGHTNING STRIKE BETWEEN BERRY AND CYNTHIANA

SEVERAL ROADS IMPASSABLE WITH 1 TO 2 FEET OF WATER

FLOWING OVER THEM JUST NORTH OF GEOGRETOWN

NUMEROUS TREES AND POWER POLES DOWN. DAMAGE TO TWO HOUSES.

TREE DOWN ON 5 MILE LANE.

0254 PM TSTM WND DMG LEAVENWORTH 38.20N 86.35W 08/04/2009 CRAWFORD IN TRAINED SPOTTER

TREE DOWN ON A HOUSE.

0255 PM TSTM WND DMG 10 NE FRANKFORT 38.29N 84.73W 08/04/2009 SCOTT KY COUNTY OFFICIAL

GROVE OF TREES WERE DOWNED NEAR SULPHER LICK ROAD...SNAVELY ROAD AND ROCK BRANCH ROAD

TREES DOWNED AND A SMALL OUTBUILDING FLIPPED OVER.

0305 PM FLASH FLOOD PEWEE VALLEY 38.31N 85.49W 08/04/2009 OLDHAM KY TRAINED SPOTTER

8 TO 10 INCHES OF FAST FLOWING WATER ON HIGHWAY 362.

0305 PM TSTM WND DMG CLOVERPORT 37.83N 86.63W 08/04/2009 BRECKINRIDGE KY COUNTY OFFICIAL

TREE DOWN ON HIGHWAY 105 NEAR THE CLOVERPORT BOAT RAMP

0307 PM TSTM WND DMG ENGLISH 38.33N 86.46W 08/04/2009 CRAWFORD IN TRAINED SPOTTER

TREES SNAPPED

NUMEROUS ROADS WERE FLOODED IN THE COUNTY. THEY INCLUDED CAMP PLEASANT ROAD AND SEEDER ROAD IN THE PEAKS MILL AREA. THERE WAS A HIGH WATER RESCUE ON OAKLAND BRANCH ROAD. NUMEROUS SECONDARY ROADS IN NORTHEAST FRANKLIN COUNTY WERE COVERED WITH WATER.

FULL GROWN TREE DOWN ON WESTPORT RD. AND ST. JOHN

TREES AND POWER LINES DOWN

8 TO 9 INCHES OF FLOWING WATER OVER TODDS ROAD FOREST HILL AND MCFARLAND LN

SEVERAL TREES DOWN WITHIN CITY LIMITS AND METAL ROOF REPORTED BLOWN OFF

METAL AND WOODEN BARN DEMOLISHED ALONG WITH SEVERAL GREENHOUSES.

TREES AND POWER LINES DOWN NEAR 1295 AND GILLESPIE WITH DAMAGE TO A HOUSE ON 1295.

0353 PM TSTM WND DMG BEREA 37.58N 84.29W 08/04/2009 MADISON KY EMERGENCY MNGR

TREES FELL AT JOHNSON RD... GABBERTOWN RD... AND AT 21 EAST

0400 PM FLASH FLOOD 10 N FRANKFORT 38.34N 84.87W 08/04/2009 FRANKLIN KY COUNTY OFFICIAL

OAKLAND BRANCH ROAD... SLICKAWAY BRANCH ROAD AND SOUTH SCRUGGS ROAD FLOODED.

0415 PM TSTM WND DMG ROCHESTER 37.21N 86.89W 08/04/2009 BUTLER KY EMERGENCY MNGR

TREES DOWN NEAR ROCHESTER

4 INCHES OF RUNNING WATER ON ROADS IN BRANNON CROSSING SHOPPING CENTER. 3 TO 6 INCHES OF WATER ON MAN O WAR BLVD AT CLEARWATER DR.

STRONG WINDS CAUSED ARCHING TRANSFORMERS NEAR THOMAS COURT NEAR PLUM SPRINGS... AND DOWNTOWN BOWLING GREEN NEAR INTERSECTION OF WOODFORD AVE AND CLAY

POWER POLE DOWN NEAR CREEK WOOD AVE AND RUSSELL RD

0522 PM HAIL BOWLING GREEN 36.97N 86.44W 08/04/2009 M0.88 INCH WARREN KY TRAINED SPOTTER

SEVERAL TREES DOWN IN THE LEWISBURG AREA

SEVERAL TREES DOWN IN MIDDLETON AREA

0634 PM  $\,$  TSTM WND DMG  $\,$  VERSAILLES  $\,$  38.05N 84.73W 08/04/2009  $\,$  WOODFORD  $\,$  KY  $\,$  COUNTY OFFICIAL

TWO TREES DOWN ALONG OLD FRANKFORT PIKE BETWEEN MIDWAY AND VERSAILLES

0852 PM TSTM WND DMG LEWISBURG 36.99N 86.95W 08/04/2009 LOGAN KY LAW ENFORCEMENT

TREES DOWN ON HWY 96 IN LEWISBURG

BIG INDIAN CREEK FLOODING WELL OUT OF ITS BANKS.

12 TO 13 INCHES OF FLOWING WATER OVER BALD KNOB ROAD.

National Weather Service
Louisville, KY Weather Forecast Office
6201 Theiler Lane
Louisville, KY 40229-1476
502-969-8842
Page Author: LMK Webmaster
Web Master's E-mail: w-lmk.webmaster@noaa.gov
Page last modified: August 8th 2009 9:41 AM



5:37am EDT: Mesoscale Discussion issued by SPC for southern Indiana.

5:45am EDT: Dime sized hail in Oldham County east of Prospect.

6:38am EDT: Severe Thunderstorm Warning issued for northern Clark County Indiana, southwestern Jefferson County Indiana, Scott County Indiana, and eastern Washington County Indiana.

7:12am EDT: Severe Weather Statement issued for northern Clark County Indiana, eastern Washington County Indiana, Scott County Indiana, and southwestern Jefferson County Indiana.

7:36am EDT: Flash Flood Warning issued for northern Clark County Indiana, southwestern Jefferson County Indiana, Scott County Indiana, and northeastern Washington County, Indiana.

7:45am EDT: Golf ball sized hail in Charlestown.

7:50am EDT: Severe Thunderstorm Warning issued for northeastern Jefferson County Kentucky, western Oldham County, and southern Clark County Indiana.

7:50am EDT: Quarter sized hail in Sellersburg.

7:55am EDT: Trees down near Interstate 65 at Exit 9 in Clark County, Indiana.

8:13am EDT: Flash Flood Warning issued for northeastern Jefferson County Kentucky, western Oldham County, and Clark County, Indiana.

8:14am EDT: Streams out of their banks in Jeffersonville.

8:17pm EDT: Severe Thunderstorm Warning issued for Jefferson County, Kentucky and southern Floyd County.

8:20am EDT: 60mph winds at Interstate 64 and Hurstbourne in Louisville.

8:21am EDT: Water rescue from a vehicle in Sellersburg.

8:23am EDT: High Street closed due to flooding in Charlestown.

8:25am EDT: Bowman Road closed due to flooding between Scottsburg and Austin.

8:28am EDT: Quarter sized hail at the YMCA in Jeffersonville.

8:37am EDT: Flash Flood Statement issued for northern Clark Indiana, northeastern Washington Indiana, Scott Indiana, and southwestern Jefferson Indiana counties.

8:44am EDT: Severe Weather Statement issued for Jefferson County, Kentucky and southern Floyd County.

8:45am EDT: Flash Flood Warning issued for western Jefferson County Kentucky, southwestern Clark County Indiana, Floyd County, and central Washington County, Indiana.

8:50am EDT: Cars floating on Scribner Road with massive downtown flooding in New Albany.

8:50am EDT: Water rescue on East Grey Street and several feet of water on Second Street in Louisville.

8:52am EDT: Dime sized hail in Louisville.

9:04am EDT: Torrential rain in Jeffersonville.

9:06am EDT: Three feet of water on Eastern Boulevard stranding vehicles in Jeffersonville.

9:14am EDT: Special Weather Statement issued for heavy rain in the Blue Grass.

9:15am EDT: Interstate 65 closed in Louisville.

9:18am EDT: Flash Flood Warning issued for southern Jefferson County, Kentucky.

9:24am EDT: Flash Flood Warning issued for northeastern Jefferson County Kentucky, western Oldham County, and Clark County, Indiana.

9:24am EDT: Mesoscale Discussion issued by SPC for southern Indiana.

9:30am EDT: Apartment caught fire after a lightning strike off Southside Drive and New Cut Road.

9:30am EDT: US 31 closed due to flooding from Sellersburg to Henryville.

9:32am EDT: Brownsboro Road closed west of Clifton in Louisville.

9:35am EDT: Flash Flood Statement issued for Flood Emergency in Clarksville, Jeffersonville, New Albany, and Louisville.

9:40am EDT: Flash Flood Statement issued for Flood Emergency in Louisville, Jeffersonville, and Clarksville.

9:40am EDT: Woman and two children trapped in water and rescued on Valley View Road near Cherry Street in New Albany.

9:44am EDT: Flash Flood Statement issued for Flood Emergency in southern Jefferson County, Kentucky.

9:45am EDT: Severe Thunderstorm Watch issued for southern Indiana and extreme northern Kentucky.

9:47am EDT: Mesoscale Discussion issued by SPC for southern Indiana and northern Kentucky.

9:49am EDT: Torrential rain in Louisville.

9:53am EDT: Nickel sized hail in Shively.

10:09am EDT: Four-alarm apartment fire on Hurstbourne Lane near Interstate 64 in Louisville.

10:12am EDT: Water rescue on Corydon Pike just south of New Albany.

10:13am EDT: Flood Warning issued for northern Clark County Indiana, southwestern Jefferson County Indiana, Scott County Indiana, and northeastern Washington County, Indiana.

10:15am EDT: Cars submerged in downtown parking lot in Louisville.

10:17am EDT: Flash Flood Statement issued for northern Clark County Indiana, northeastern Washington County Indiana, Scott County Indiana, and southwestern Jefferson County, Indiana.

10:18am EDT: Roads flooded in Shively.

10:23am EDT: Torrential rain in Valley Station.

10:25am EDT: Several roads are closed along IN 62 in Clark County.

10:40am EDT: Several roads have one to two feet of water on them, and there are many flooded basements near Churchill Downs.

10:48am EDT: Flood Warning issued for western Jefferson County Kentucky, southwestern Clark County Indiana, and Floyd County.

10:50am EDT: Flash Flood Statement issued for western Jefferson County Kentucky, Floyd County, southwestern Clark County Indiana, and central Washington County Indiana.

- 10:55am EDT: Flood Warning issued for northeastern Jefferson County Kentucky, western Oldham County, and Clark County Indiana.
- 10:56am EDT: Flash Flood Statement issued for northeastern Jefferson County Kentucky, western Oldham County, and Clark County Indiana.
- 11:00am EDT: Flood Warning issued for southern Jefferson County, Kentucky.
- 11:01am EDT: Flash Flood Statement issued for southern Jefferson County, Kentucky.
- 11:05am EDT: Little Indian Creek in Lanesville flooded and entered basements on the north side of IN 62.
- 11:06am EDT: Hillview Boulevard closed between Terry Road and Earlywood Road in Hillview. A foot and a half of swiftly moving water over the roadway.
- 11:06am EDT: Buck creek over the road in Elizabeth.
- 11:23am EDT: Flood Warning issued for northeast Bullitt County.
- 11:30am EDT: Flood Warning issued for Harrison County, Indiana.
- 11:51am EDT: Flood Statement issued for northeastern Washington County Indiana, Scott County Indiana, southwestern Jefferson County Indiana, and northern Clark County, Indiana.
- 12:13pm EDT: Flood Statement issued for northwestern Clark County, Indiana.
- 12:35pm EDT: Flash Flood Warning issued for Jefferson County, Indiana.
- 12:41pm EDT: Mesoscale Discussion issued by SPC for central Kentucky and southern Indiana.
- 1:03pm EDT: Severe Thunderstorm Warning issued for Dubois County and western Orange County.
- 1:14pm EDT: Severe Thunderstorm Warning issued for southwestern Jefferson County Indiana, Scott County Indiana, and northern Washington County, Indiana.
- 1:17pm EDT: Flash Flood Warning issued for Scott County, Indiana and northeastern Washington County, Indiana.
- 1:20pm EDT: Severe Thunderstorm Watch issued for much of central Kentucky.
- 1:28pm EDT: Severe Weather Statement issued for Dubois County and western Orange County.
- 1:29pm EDT: Flash Flood Warning issued for northern Trimble County and southern Jefferson County, Indiana.
- 1:30pm EDT: Severe Weather Statement issued for northeastern Washington County Indiana, Scott County Indiana, and southwestern Jefferson County Indiana.

1:33pm EDT: Severe Thunderstorm Warning issued for southwestern Henry County, Oldham County, Clark County Indiana, northern Floyd County, southern Scott County Indiana, and southeastern Washington County Indiana.

1:39pm EDT: Severe Thunderstorm Warning issued for Crawford County, southeastern Dubois County, Orange County, northern Perry County, and western Washington County Indiana.

1:43pm EDT: Flash Flood Warning issued for Henry County, Jefferson County Kentucky, Oldham County, Clark County Indiana, Floyd County, and southeastern Washington County, Indiana.

1:44pm EDT: Severe Weather Statement issued for northeastern Washington County Indiana, Scott County Indiana, and southwestern Jefferson County Indiana.

1:45pm EDT: Numerous trees down across Washington County, Indiana with 60mph winds.

1:47pm EDT: Severe Weather Statement issued for Dubois County and western Orange County.

1:49pm EDT: Severe Weather Statement issued for Oldham County, southwestern Henry County, northern Floyd County, Clark County Indiana, southeastern Washington County Indiana, and southern Scott County Indiana.

1:52pm EDT: Severe Weather Statement issued for northern Perry County, Crawford County, southeastern Dubois County, Orange County, and western Washington County Indiana.

1:53pm EDT: Intersection of US 31 and IN 56 closed due to high water at Scottsburg.

1:54pm EDT: Severe Thunderstorm Warning issued for northern Jefferson County Kentucky, southern Oldham County, northwestern Shelby County, southern Clark County Indiana, and Floyd County.

1:55pm EDT: Flood Statement issued for northeastern Jefferson County Kentucky, western Oldham County, and Clark County, Indiana.

1:56pm EDT: Flash Flood Warning issued for Bourbon County, Harrison County Kentucky, Nicholas County, and Scott County, Kentucky.

1:57pm EDT: Flood Statement issued for southern Jefferson County, Kentucky.

1:57pm EDT: Water rescue from a vehicle on US 31 in Sellersburg.

2:02pm EDT: Flood Statement issued for Harrison County, Indiana.

2:03pm EDT: Severe Weather Statement issued for Oldham County, southwestern Henry County, northern Floyd County, Clark County Indiana, southeastern Washington County Indiana, and southern Scott County Indiana.

2:04pm EDT: Tree on a house in Goshen, trapping the residents inside.

- 2:07pm EDT: Severe Weather Statement issued for northern Jefferson County Kentucky, southern Oldham County, northwestern Shelby County, southern Clark County Indiana, and Floyd County.
- 2:12pm EDT: Large limb blown down at television studio in Louisville.
- 2:13pm EDT: Severe Weather Statement issued for northern Perry County, Crawford County, southeastern Dubois County, Orange County, and western Washington County Indiana.
- 2:15pm EDT: Flash Flood Warning issued for Harrison County, Indiana.
- 2:15pm EDT: County road 250 and many roads along creeks are impassable in Jefferson County, Indiana.
- 2:15pm EDT: Several roads washed out or down to one lane in Floyd County, including Edwardsville Road, Corydon Pike, and Two Mile Lane.
- 2:17pm EDT: Severe Weather Statement issued for northern Jefferson County Kentucky, southern Oldham County, northwestern Shelby County, southern Clark County Indiana, and Floyd County.
- 2:24pm EDT: Bridges and low water crossings around Bedford were underwater, including KY 754 and KY 625.
- 2:25pm EDT: Flash Flood Statement issued for northeastern Washington County, Indiana and Scott County, Indiana.
- 2:27pm EDT: Severe Weather Statement issued for northern Jefferson County Kentucky, southern Oldham County, northwestern Shelby County, southern Clark County Indiana, and Floyd County.
- 2:30pm EDT: Trees down and structural damage from 70mph winds near Stamping Ground. Numerous buildings damaged, power lines down.
- 2:31pm EDT: Severe Thunderstorm Warning issued for Bourbon County, northwestern Clark County Kentucky, Fayette County, southern Harrison County Kentucky, northern Jessamine County, southeastern Scott County Kentucky, and northern Woodford County.
- 2:32pm EDT: Flash Flood Statement issued for Jefferson County, Indiana.
- 2:33pm EDT: Torrential rain at Madison.
- 2:40pm EDT: Torrential rain at Jeffersonville.
- 2:44pm EDT: Severe Weather Statement issued for Bourbon County, northwestern Clark County Kentucky, Fayette County, southern Harrison County Kentucky, northern Jessamine County, southeastern Scott County Kentucky, and northern Woodford County.
- 2:45pm EDT: Special Weather Statement issued for strong thunderstorms in central Kentucky.
- 2:45pm EDT: Lightning caused a fire north of Cynthiana.

- 2:45pm EDT: A barn caught fire on Renaker Road due to a lightning strike between Berry and Cynthiana.
- 2:45pm EDT: Up to 2 feet of water over roads just north of Georgetown, Kentucky.
- 2:48pm EDT: A tree was blown down on Five Mile Lane in New Albany.
- 2:47pm EDT: Flash Flood Statement issued for Jefferson County Kentucky, Oldham County, Henry County, Floyd County, Clark County Indiana, and southeastern Washington County Indiana.
- 2:53pm EDT: Severe Weather Statement issued for Bourbon County, northwestern Clark County Kentucky, Fayette County, southern Harrison County Kentucky, northern Jessamine County, southeastern Scott County Kentucky, and northern Woodford County.
- 2:54pm EDT: A tree fell on a house at Leavenworth.
- 2:55pm EDT: Flash Flood Warning issued for Franklin County.
- 2:55pm EDT: A grove of trees was blown down near Sulphur Lick Road, Snavely Road, and Rock Branch Road in Scott County, Kentucky.
- 2:59pm EDT: Severe Thunderstorm Warning issued for southern Bourbon County, Clark County Kentucky, Fayette County, and northern Madison County.
- 3:00pm EDT: Trees blown down and a small outbuilding flipped over in Stephensburg.
- 3:02pm EDT: Severe Weather Statement issued for Bourbon County, northwestern Clark County Kentucky, Fayette County, southern Harrison County Kentucky, northern Jessamine County, southeastern Scott County Kentucky, and northern Woodford County.
- 3:05pm EDT: Ten inches of fast-flowing water over KY 362 in Pewee Valley.
- 2:05pm CDT: A tree blew down on KY 105 near the Cloverport boat ramp in Breckinridge County.
- 3:07pm EDT: Trees snapped in English.
- 3:11pm EDT: Flash Flood Statement issued for Jefferson County Kentucky, Oldham County, Henry County, Floyd County, Clark County Indiana, and southeastern Washington County Indiana.
- 3:12pm EDT: Flash Flood Warning issued for Fayette County.
- 3:12pm EDT: Numerous roads flooded in Franklin County, including Camp Pleasant Road and Seeder Road in the Peaks Mill area. There was a high water rescue on Oakland Branch Road.
- 3:15pm EDT: Full-grown trees blown down on Westport Road near Saint John in Hardin County.
- 2:16pm CDT: Special Weather Statement issued for thunderstorms over southern Kentucky.
- 3:18pm EDT: Flash Flood Warning issued for Clark County, Kentucky.

- 3:20pm EDT: Special Weather Statement issued for gusty winds in southern Kentucky.
- 3:21pm EDT: Flash Flood Statement issued for Franklin County.
- 3:23pm EDT: Severe Weather Statement issued for southern Bourbon County, Clark County Kentucky, Fayette County, and northern Madison County.
- 2:29pm CDT: Special Weather Statement issued for thunderstorms with gusty winds and very heavy rain in Breckinridge and Ohio counties.
- 2:29pm CDT: Trees and power lines down near Harned.
- 3:33pm EDT: Up to 9 inches of water flowing over Todds Road, Forest Hill, and McFarland Lane in Lexington.
- 3:36pm EDT: Mesoscale Discussion issued by SPC for central Kentucky.
- 3:37pm EDT: Severe Weather Statement issued for southern Bourbon County, Clark County Kentucky, Fayette County, and northern Madison County.
- 3:38pm EDT: Special Weather Statement issued for strong storms over the southern Blue Grass.
- 3:42pm EDT: Severe Thunderstorm Warning issued for Madison County.
- 3:43pm EDT: Several trees blown down and a metal roof blown off in Campbellsville.
- 3:45pm EDT: Barn and several greenhouses demolished around Lancaster.
- 3:48pm EDT: Trees and power lines down near KY 1295 and Gillespie Road with damage to a house on KY 1295 in Garrard County.
- 3:51pm EDT: Flash Flood Warning issued for Madison County.
- 3:53pm EDT: Trees down on Johnson Road, Gabbertown Road, and at 21 East in Berea.
- 2:54pm CDT: Special Weather Statement issued for gusty winds in southern Kentucky.
- 3:55pm EDT: Severe Weather Statement issued for southern Madison County.
- 4:00pm EDT: Oakland Ranch Road, Slickaway Branch Road, and South Scruggs Road flooded in Franklin County.
- 4:04pm EDT: Flash Flood Warning issued for Trimble County and Jefferson County, Indiana.
- 3:10pm CDT: Severe Thunderstorm Warning issued for Butler County, northwestern Edmonson County, and northwestern Warren County.
- 3:15pm CDT: Trees down near Rochester.

- 4:16pm EDT: Severe Weather Statement issued for southern Madison County.
- 3:17pm CDT: Special Weather Statement issued for gusty winds in southern Kentucky.
- 4:19pm EDT: Flash Flood Warning issued for Scott County, Indiana and eastern Washington County, Indiana.
- 4:36pm EDT: Flash Flood Statement issued for Fayette County.
- 3:53pm CDT: Special Weather Statement issued for strong storms with heavy rain and frequent lightning in southern Kentucky.
- 4:59pm EDT: Flash Flood Statement issued for Bourbon, Nicholas, Scott Kentucky, and Harrison Kentucky counties.
- 5:02pm EDT: Four inches of running water on roads in Brannon Crossing Shopping Center in Lexington. Up to 6 inches of water on Man O' War Boulevard at Clearwater Drive.
- 5:04pm EDT: Flood Warning issued for the Muscatatuck River near Deputy, Indiana.
- 5:06pm EDT: Flash Flood Statement issued for Clark County, Kentucky.
- 4:09pm CDT: Severe Thunderstorm Warning issued for eastern Warren County.
- 5:16pm EDT: Flash Flood Statement issued for Madison County.
- 5:18pm EDT: Flood Warning issued for Henry County, Jefferson County Kentucky, Oldham County, Clark County Indiana, Floyd County, and Harrison County Indiana.
- 4:20pm CDT: Strong winds caused arcing transformers near Thomas Court in the Plum Springs area of Warren County, as well as in downtown Bowling Green near the intersection of Woodford Avenue and Clay Street.
- 4:20pm CDT: Power pole down near Creek Wood Avenue and Russell Road in Bowling Green.
- 4:22pm CDT: Nickel sized hail in Bowling Green.
- 4:23pm CDT: Special Weather Statement issued for strong storms with heavy rain, hail, and frequent lightning around Bowling Green.
- 4:25pm CDT: Flood Statement issued for southern Butler County, northern Logan County, and Warren County.
- 4:26pm CDT: Severe Weather Statement issued for southeastern Warren County.
- 4:34pm CDT: Severe Weather Statement issued for southeastern Warren County.
- 5:44pm EDT: Flood Warning issued for Franklin County.

4:46pm CDT: Several trees down in the Lewisburg area.

5:58pm EDT: Flash Flood Statement issued for Bourbon, Nicholas, Scott Kentucky, and Harrison Kentucky counties.

6:02pm EDT: Flood Warning issued for Harrison County, Kentucky.

5:03pm CDT: Special Weather Statement issued for strong storms with heavy rain, small hail, and frequent lightning around Bowling Green.

5:13pm CDT: Severe Thunderstorm Warning issued for southeastern Logan County and southwestern Simpson County.

6:13pm EDT: Flash Flood Statement issued for Madison County.

6:19pm EDT: Flash Flood Statement issued for Clark County, Kentucky.

5:23pm CDT: Several trees down in the Middleton area.

5:30pm CDT: Severe Weather Statement issued for southwestern Simpson County and southeastern Logan County.

6:34pm EDT: Two trees blown down along Old Frankfort Pike between Midway and Versailles.

5:47pm CDT: Severe Weather Statement issued for southwestern Simpson County and southeastern Logan County.

7:02pm EDT: Flood Warning issued for Trimble County, Jefferson County Indiana, Scott County Indiana, and eastern Washington County, Indiana.

7:06pm EDT: Flash Flood Statement issued for eastern Washington County, Indiana and Scott County, Indiana.

7:15pm EDT: Flood Warning issued for Fayette County.

6:33pm CDT: Special Weather Statement issued for strong storms over Butler County.

6:56pm CDT: Flash Flood Warning issued for southern Ohio County and northern Butler County.

7:19pm CDT: Severe Thunderstorm Warning issued for southern Ohio County and northwestern Butler County.

7:24pm CDT: Severe Thunderstorm Warning issued for southwestern Butler County and Logan County.

7:42pm CDT: Severe Weather Statement issued for southwestern Butler County and Logan County.

7:49pm CDT: Severe Weather Statement issued for northwestern Butler County and southern Ohio County.

7:52pm CDT: Trees down on KY 96 in Lewisburg.

7:58pm CDT: Severe Thunderstorm Warning issued for southern Butler County, eastern Logan County, Simpson County, and western Warren County.

9:00pm EDT: Big Indian Creek well out of its banks five miles northeast of Corydon.

8:01pm CDT: Severe Weather Statement issued for northwestern Butler County and southern Ohio County.

8:03pm CDT: 60mph winds in Russellville.

9:13pm EDT: Flood Statement issued for Fayette County.

8:16pm CDT: Flash Flood Warning issued for southwestern Butler County and Logan County.

8:21pm CDT: Over a foot of flowing water across Bald Knob Road three miles south of Beaver Dam.

8:25pm CDT: Water 6 inches deep over US 231 south of Morgantown.

9:26pm EDT: Flood Warning issued for Stoner Creek at Paris.

9:27pm EDT: Flood Statement issued for central Franklin County.

8:43pm CDT: Severe Weather Statement issued for southern Butler County, eastern Logan County, Simpson County, and western Warren County.

8:55pm CDT: Flash Flood Statement issued for northern Butler County and southern Ohio County.

9:01pm CDT: Special Weather Statement issued for thunderstorms with heavy rain near the Tennessee border.

9:07pm CDT: Flash Flood Statement issued for Logan County and southwestern Butler County.

10:22pm EDT: Flood Warning issued for Jefferson County Indiana, Scott County Indiana, and Washington County Indiana.

9:23pm CDT: Flood Statement issued for northwestern Warren County.

10:49pm EDT: Flood Statement issued for Oldham County, Henry County, and Harrison County, Indiana.

9:58pm CDT: Flash Flood Statement issued for northern Butler County and southern Ohio County.

10:59pm EDT: Flood Warning issued for Jefferson County Kentucky, Clark County Indiana, and Floyd County.

11:17pm CDT: Flash Flood Statement issued for southwestern Butler County.

## August 5

12:19am EDT: Flood Warning issued for the Muscatatuck River near Deputy, raising the forecast from moderate flood to major flood.

4:14am EDT: Flood Statement issued for Scott County, Indiana and Jefferson County, Indiana.

4:33am EDT: Flood Warning issued for Washington County, Indiana.

5:09am EDT: Flood Warning issued for Jefferson County Kentucky, Clark County Indiana, and Floyd County.

7:55am EDT: Flood Statement issued for Jefferson County Kentucky, Floyd County, and Clark County, Indiana.

8:28am EDT: Flood Statement issued for Washington County, Indiana.

9:25am EDT: Flood Statement issued for Stoner Creek at Paris.

11:35am EDT: Flood Statement issued for the Muscatatuck River near Deputy.

1:42pm EDT: Flood Statement issued for Stoner Creek at Paris.

6:05pm EDT: Flood Statement issued for Stoner Creek at Paris and the Muscatatuck River near Deputy.

## Attachment M Representative August 4, 2009 Storm Photos



Wheeler Basin Area.



Wheeler Basin Area.



21<sup>st</sup> and Broadway.



Behind 3<sup>rd</sup> and Breckenridge Street Kroger



Alley near 22<sup>nd</sup> and Broadway.



Pruitt Court.



Middle Fork Beargrass Creek behind Oxmoor Mall.



Middle Fork Beargrass Creek behind Oxmoor Mall.



Fairgrounds Flood Control Basin.