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January 29, 2010

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Subject: Quarterly Report Number 17  
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 October 1, 2009 through December 31, 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,

 For Brian Bingham  
W. Brian Bingham  
Regulatory Services Director

Q17 Certification KDEP 1-30-10

cc: H. J. Schardein, Jr.

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Beneficial Use of Louisville's Biosolids  
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# Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #17



**Reporting Period:**

October 1, 2009 through December 31, 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:**

January 30, 2010

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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 seventeenth Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from October 1, 2009, through December 31, 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 October 1, 2009, through December 31, 2009, and the anticipated projects and activities that are scheduled to be performed during the next reporting period (January 1, 2010, through March 31, 2010) 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 October 1, 2009, through December 31, 2009, and the anticipated activities that are scheduled to be performed during the next reporting period (October January 1, 2010, through March 31, 2010) 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 October 1, 2009, through December 31, 2009, and the anticipated projects and activities that are scheduled to be performed during the next reporting period (January 1, 2010, through March 31, 2010) 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 October 1, 2009, through December 31, 2009, and the anticipated activities that are scheduled to be performed during the next reporting period (January 1, 2010, through March 31, 2010) for continued compliance with the Amended Consent Decree.

**Section 5: Capacity Management, Operations and Maintenance Report** - The program activities performed during the reporting period October 1, 2009, through December 31, 2009, and activities planned for the next reporting period (January 1, 2010, through March 31, 2010) 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 October 1, 2009, through December 31, 2009, and the anticipated projects and activities that are scheduled to be performed during the next reporting period (January 1, 2010, through March 31, 2010) 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 [www.msdlouky.org/projectwin](http://www.msdlouky.org/projectwin). 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 4024 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 1372 weekly inspections on CSOs, 294 creek inspections, and initiated over 102 work orders for debris removal and/or repairs as determined to be necessary to allow proper system operation during this reporting period.
- Flushed 62 sewer line segments in the CSS, ranging in size from 6 inches to 15 inches, and performed formula TV inspection on 214 lines, as part of the gravity sewer preventive maintenance program.
- Continued several projects to create improved access to some CSO sites to facilitate cleaning activities. Design is complete on the access road on Castlevale for CSO097. Easement acquisition is underway and bidding is expected in second quarter of 2010. Design is complete on the Muncie Avenue siphon access and this project will be bid in the next reporting period.
- Achieved the following program metrics:

<u>Target</u>	<u>Result</u>
95% of CSOs inspected weekly.	100% Compliance - All CSOs were inspected weekly.
95% of flap gates inspected weekly.	100% Compliance - 14 flapgates on CSOs were inspected weekly.
95% of siphons inspected monthly.	100% Compliance – 10 siphons were inspected weekly and 9 additional siphons were inspected monthly.

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.	96.3% Compliance - There were 80 Debris work orders and 1 CSO Repair work order. Three were open longer than 5 days. These were basket cleans which took 6 days to complete on 3 occasions.
95% of the catch basins within the CSSA cleaned every 15 months.	100% Compliance - Currently we are on a 12 month cycle.

Annual Training

- Performed no formal CSO training during this quarter.

Annual Asset Review and Documentation

- Re-published the CSO Inventory document with changes captured during the calendar year.
- Published CSO Schematic maps to show connectivity of assets and to aid preventive maintenance tasks.
- Updated and re-published siphon fact sheets and drawings.
- Reviewed the catch basin districts and staff is in the process of re-aligning the boundaries.
- Continued to assess quick CSO-closure opportunities within the Central Relief Drain.

**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 175 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.
- Continued the following RTC projects:

Southeast Diversion Flowmeter Instability Analysis – Installed two flowmeters at the Southeast Diversion Structure and one at the Nightingale Pump Station in November 2009. Staff has completed the local programming for each flow meter and the instability issues seem to be corrected. Programmed the new flow meters with the CSoft global programming software. Final programming and testing will be completed in January 2010.

Web-Based Training – Approved the Operators RTC Training modules and used the module in a training workshop held on December 18, 2009. During the next reporting period, MSD’s Training Department will schedule test training groups from each division of MSD directly responsible for the operations and maintenance of the RTC system to test the effectiveness of the training modules. Feedback from the training groups will be

incorporated into the training modules. Final modules will be made available to all MSD staff.

#### Storage Optimization

- Beargrass Creek Flapgate Evaluation – Presented the technical memorandum to document the findings of the September 2008 analysis to I&FP staff in January 2009. A prioritization plan was completed on June 19, 2009. Installed the first set of flap gates at CSOs: 83/119, 88, 92, 140, the first week of December 2009. Installation of the flap gate at CSO 149/179 will be completed prior to June 1, 2010.
- CSO086 Dam Modification – Raised the Dam at CSO086, 1.3 feet on October 29, 2009.
- CSO210 Dam Modification – Completed the design of the dam modification in December 2009. Project budget for construction has been requested. Construction is scheduled to be completed prior to June 30, 2010, pending budget approval.
- CSO108 Dam Modification – Started project design in October, 2009. Construction of this project will be completed prior to December 31, 2010.
- CSO156 Elimination – Disconnected downspouts and re-routed flows to allow for the closure of CSO156 on October 30, 2009.
- Spring Drive Diversion - Designed a diversion structure, to route flows from a fresh water spring away from the CSS and into Beargrass Creek, during November 2009. Construction of the diversion structure will occur in the next reporting period.
- CSO210 and CSO016 – Initiated design on an additional 24-inch low flow line between CSO016 and CSO210 to expand the conveyance of flow and minimize the overflow. Construction is scheduled for completion by June 30, 2010, pending budget approval.

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

- Continued 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. In an effort to update the model data, MSD collected pollutant data in trunk sewers upstream of CSOs concurrent to industrial discharge locations during October 2009. This data, along with data collected in June, 2009 will be used to update the model.

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 will utilize data collected in June and October, 2009 to validate that each NDD is still a significant contributor to their respective CSO, as well as identify possible new NDDs of concern. The criteria to determine a significant user is greater than 10% of the loading contribution of a particular POC to Beargrass Creek CSOs and 20% to Ohio River CSOs.

- Continued 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 23 times prior to a rain event. There were 16 rain events during this quarter. There are currently 9 NDDs that

voluntarily implement control during wet weather by alternating their cleaning schedule or by storing during a rain event and releasing later.

- Continued to place rain event constraints on Unusual Discharge Requests to the CSS. MSD issued 4 UDRs in the CSS.
- Continued 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.
- Continued to seek out green infrastructure opportunities at NDDs discharging to CSS.
- Continued to track performance measures to monitor the effectiveness of the implementation of NMC #3 within the Pretreatment Program.

#### 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 175 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.
- Continued the implementation of the RTC Phase II programmatic enhancement initiatives previously discussed in NMC #2.
- Completed a planning effort and developed a scope of work to achieve the following plant improvements:
  - 1) Enhance the performance metric displays for Morris Forman WQTC to include some of the underlying dynamics that affect available plant capacity. MSD currently tracks and displays the percentage of available plant capacity that is being treated, as determined by the capacity calculator. MSD will increase the frequency of completing the capacity calculation and enhance the plant wet weather SOP and update training to support this task. Additional performance metric displays that are planned include:
    - Display the percent availability of the critical (i.e. rate-limiting) unit processes to manage the timing of maintenance activities in an attempt to ensure capacity during wet weather events;
    - Display the percentage of time the full firm capacity of the treatment system is available to treat wet weather flows, for managing the timing of major maintenance and capital projects for improvements to the Morris Forman WQTC and;
    - Display the percentage of time that the plant operates near the peak flow capacity of the plant when CSOs are occurring at the Southwestern Pump Station (CSO015) or at the Main Diversion Structure (CSO211).
  - 2) Initiate studies and, if appropriate, improvements to flow measurement at several places in the Morris Forman WQTC, including:

- Develop an algorithm to calculate flow under Sluice Gate 1 at the Main Diversion Structure during wet weather events;
  - Enhance the Parshall Flumes at the New Headworks to improve flow measurement under high flow/submerged flume conditions;
  - Develop a weir equation to allow flow measurement by the movable weir upstream of the old Headworks;
  - Replace the flow meters upstream of the 20 secondary clarifiers; and
  - Evaluate operating levels in the Final Effluent Pump Station to see if the existing effluent flume can be used during pumping operations.
- 3) Investigate the potential to increase the peak flow delivery capacity of the Southwestern Pump Station, including:
- Evaluate wet well cleaning frequencies;
  - Review the Standard Operating Procedures for wet weather conditions and update as necessary; and
  - Explore the observed reduction of flow capacity at SWPS – determine if impellers are worn, if screening has reduced the capacity of the pumps, or if operating levels can be adjusted to restore original flow capacity.
- 4) Enhance SOP for flow handling at MDS to allow for maximum treatment at Morris Forman WQTC prior to any flow being stored. Evaluate flow management strategy and subsequent CSoft/local station programming to determine if refinement is necessary.
- 5) Schedule time with RS and Operations staff in the computer room during a rain event to observe the decision making process and reaction of Morris Forman WQTC processes to the event.

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

### Flood Pump Stations

- Received 50% design submittal for the 4th Street FPS Dry Weather Overflow (DWO) Elimination Project (Budget ID H08477) on November 19, 2009. The 34th Street FPS DWO Elimination Project (Budget ID H08478) 50% design submittal was received on November 30, 2009. Negotiated final design services for the 27th Street FPS (Budget ID H09126) and Shawnee FPS (Budget ID H09136) DWO projects. During the next reporting period 80% and 100% final design documents will be received for the 4<sup>th</sup> Street and 34<sup>th</sup> Street DWO Elimination projects.
- Negotiated a contract for professional services to update the current U.S. Army Corps of Engineers (USACE) Flood Operations and Maintenance Manual. The project will update the four volumes of the operations and maintenance manuals for the Flood Pump Stations (FPS) that will reflect current operational procedures and protocols along with revisions related to changes proposed to reduce dry weather overflows. During the next

reporting period a contract will be awarded to begin the manual updates. Plan is to have a draft manual update completed June 2010.

- Continued the implementation of the Unusual Discharge Request permit program to prevent negative impacts on the CSS from discharges not already covered by a wastewater discharge permit. 4 UDRs were processed in this quarter.
- Award a final design contract for the 27th Street and Shawnee FPS DWO Elimination projects. The actual design, work for both stations, is scheduled to start August 2010.

#### Asset Analysis

- 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).
- Review Louisville Water Company protocols for hydrant flow tests to prevent any DWOs caused by hyper-chlorinated discharges. Develop a letter outlining changes to this protocol if necessary.
- Perform inspection and cleaning of FOG hotspots within the CSS, in accordance with CMOM commitments.

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

#### Field Verification

- Continued to implement the expanded visual inspection program to determine the efficacy of installed controls. 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 a qualifying event on November 17, 2009. Findings and recommendations with the volume of floatables removed will be summarized in the FY10 Annual Report.
- Completed the initial rehabilitation work on CSO108 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. Investigations were not possible during this period due to high water conditions. Due to safety concerns, this inspection will have to be completed during dry weather. MSD will also review alternate inspection technologies that may allow inspections without direct entry by staff.
- Continued to monitor and document performance of the CSO108 Solids and Floatable structure operation in accordance with the MOU with the Kentucky Nature Preserve.



- Submitted the annual report on CSO108 to the Kentucky Nature Preserve.
- Perform wet weather inspections on two routes (weather permitting), as part of the expanded visual inspection program to determine the efficacy of installed controls before March 30, 2010. The intent of the visual inspections is to verify the installed controls are working by checking the appearance of the creek/river before, during and after an event compared to a standard for aesthetics. Evaluate the need for enhanced solids and floatable control.
- Review new S&F technologies for potential incorporation into the program as a potential pilot 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, 67 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 Morris Forman WQTC, 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 quarter:

<b>Location</b>	<b>Amount of Debris Removed</b>
Catch Basin cleaning	678 CY
S&F Controls and Sneads Branch	13 CY
Headworks of Morris Forman WQTC	2880 CY
Street Sweeping	376 Tons

**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. Developed a tracking system for EPSC NOVs and Field Correction Notices within the CSS. During the reporting period, 33 field correction notices and no NOVs were issued

for activities in the CSS. The tracking system will be used for mapping and reporting.

- Continued issuance of Wastewater Discharge Permits under the Industrial Pretreatment Program.
- Continued to facilitate clean sweep events and coordinate volunteers to remove trash and debris from the waterways in Jefferson County; facilitate rain barrel sales in partnership with the Louisville Nature Center; prepare and distribute 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 37 rain barrels in this quarter and an additional 15 rain barrels were installed as part of the CSO206 separation project.
- Review and evaluate the MSD Design Manual and Standard Drawings for opportunities to include green infrastructure components as an alternative.
- Partner with Louisville Metro and Louisville Metro Police Department at pharmaceutical destruction events.
- Continue to prepare and distribute 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.
- Develop a workplan to review and enhance the Green Infrastructure BMP manual for items such as rain gardens, rain barrels, and pervious pavement.
- Develop literature for distribution to SIUs on BMPs for prevention of pollution.
- Develop an IOAP green infrastructure tracking program.
- Execute a contract to develop Stormwater Pollution Prevention Plans (SWPPPs) for the WQTCs, major Pump Stations, and CMF. Plans and training modules will be completed by June 30, 2011.
- Distribute the rain garden handbook to Louisville Metro agencies and to the public in order to encourage green infrastructure utilization.

#### 1.9 NMC 8: Public Notification

- Reduced duplication by reporting all public notification information 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.



- Posted predictive and real-time radar rainfall services online at MSD with 4-hour predictive rainfall estimates across 700 pixels countywide in addition to MSD's rain gauge 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. Post-construction monitoring around these sites will begin scoping during the next quarter.
- Completed the implementation of flow monitoring with remote viewing capabilities on CSOs with an AAOV exceeding 10 million gallons per year. A plan for monitoring, measuring, or calculating flows at each location was developed June 30, 2009. New flow meters were installed at these locations prior to December 31, 2009. MSD staff is working with the new software system and available reports to analyze the data.
- Worked on the development of an alternate monitoring or flow calculation plan for two sites. CSO023 and the Sneads Branch outfall are not readily suited for flow meter installation.
- Identified appropriate locations and developed an installation plan for additional CSS flow meters for use in improving CSS model calibration in areas that have poor calibration.
- Continued the ecological database design and import of historical biological, macro invertebrate and habitat assessment data.
- Started the review of RTC performance reports versus modeled site performance and resultant AAOV reductions.
- Defined and began the implementation of a 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.
- Received an enhanced radar/rainfall dataset that will improve MSD's ability to simulate past rainfall events. This data will improve model calibration over time and allow MSD to investigate wet weather operations issues more effectively.
- Continued to collect Sonde data through the USGS Automated Data Processing System (ADAPS) site and define additional quality control review procedures.
- Produced the bi-annual Water Quality Synthesis Report by December 31, 2009.
- Produced an updated CSO and sewer pollutant characterization table.

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## 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 [www.msdlouky.org/projectwin](http://www.msdlouky.org/projectwin). The following activities were performed during this reporting period.

### 2.2 Overflow Management and Field Documentation

- Continued to schedule additional field reviews of SORP procedures after rain events to both ensure successful implementation and to assist with the annual SORP overall review.
- Monitored 11 locations and took 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 eight different days.
- Continued review and adjustment of the overflow/wet weather inspection routes 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.
- Monitored 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, RS and Engineering staff documented 24 unauthorized discharges. Inspection routes were run during rain events on October 9, 2009, October 31, 2009, and December 8, 2009. During the next quarter routes will continue to be monitored as needed.
- Monitored 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 2,018,800 gallons of sewage.

### 2.3 Regulatory Reporting and Data Management

- 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.
- Conducted monthly meetings with staff to perform quality control on discharge work orders.

- Performed the monthly review of discharge work orders. The associated assets in Hansen were updated to track any new overflow locations.
- Performed a detailed data review and trend analysis and incorporated into the quarterly training sessions and documented the findings in Section 7 of this quarterly report.

**2.4 Staff Training and Communication**

- Focused the fourth quarter SORP training classes on overflow field documentation.

<b>Division</b>	<b>Date</b>	<b>Number of Attendees</b>
Eng/Reg.Srvs	12/1/09	50
I&FP	12/11/09	13
I&FP	12/11/09	9
Metro and Morris Forman WQTC	11/4/09	1
Metro and Morris Forman WQTC	11/19/09	15
Metro and Morris Forman WQTC	11/19/09	41
Metro and Morris Forman WQTC	11/19/09	12
Metro and Morris Forman WQTC	12/2/09	2
Metro and Morris Forman WQTC	12/2/09	15
Metro and Morris Forman WQTC	12/2/09	9
Metro and Morris Forman WQTC	12/9/09	16
Metro and Morris Forman WQTC	12/9/09	19
Metro and Morris Forman WQTC	12/10/09	19

- Continued to enhance the SORP Implementation Manual as new modules are developed. The target for completion of this document is June 30, 2010.
- Continued to review and update the data associated with overflows.
- Conducted the Annual SORP training for 607 staff and contractors.

Location	Date	Number of Attendees
Main Office	11/9/2009	42
Central Maintenance Facility	11/11/2009	32
Main Office	11/12/2009	40
Central Maintenance Facility	11/17/2009	107
Main Office	11/18/2009	64
Morris Forman WQTC	11/19/2009	68
Central Maintenance Facility	11/20/2009	22
Central Maintenance Facility	12/1/2009	49
Morris Forman WQTC	12/2/2009	25
Hite Creek WQTC	12/9/2009	17
Cedar Creek WQTC	12/9/2009	22
Central Maintenance Facility	12/18/2009	97
Derek R. Guthrie WQTC	12/10/2009	22

- Review and update the training documentation in January 2010, for the first quarter training. Focus the first quarter training on monitoring, staging, reconnaissance and mobilization.

## 2.5 Annual Program Review

- Reviewed and modified the routes to reflect new SSO locations. Publish new routes by March 30, 2010.

## 2.6 Public Notification and Communication

- Reduced duplication by reporting all public notification information in **Section 4: Project WIN Program Activities for Public Outreach, Education, Notification and Participation.**

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## **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.

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

- Received verbal approval of the IOAP during a conference call on September 23, 2009. Following this call MSD made the requested clarifications, and began assembling a submittal dated September 30, 2009, to accompany EPA and KDEP's recommendation for approval to the Court. This submittal was transmitted to EPA, KDEP and DOJ by November 6, 2009. Prior to transmittal of the final copies, MSD received a conditional approval letter on October 23, 2009.
- Prepared for a public comment period that will be required prior to formal acceptance and incorporation of the IOAP into the Amended Consent Decree. In support of this MSD distributed complete copies of the IOAP (including DVDs containing the Appendices) 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 were also available for purchase through MSD's standard document distribution system.
- Posted the IOAP (not including the Appendices) on the Project WIN website in November 2009.

### **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. Completed all activities required under the Updated Sanitary Sewer Overflow Plan (SSOP).

### 3.2.2 Interim Sanitary Sewer Discharge Plan

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

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 are planned activities 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 December 18, 2009, the contractor has completed 299 of 328 (91%) house plumbing modifications, installed 327 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 120 sump pumps from the sanitary sewer, closed 3 open yard/foundation drains that connected directly into the sewer and installation of 4,038 feet (100%) of 18-inch relief sewer. 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 December 18, 2009, 8459 feet (98%) of the 8-inch sewer line has received cured-in-place pipe lining and 42 of 45 manholes have been lined. In the next reporting period, work will begin on the property service connections and plumbing modifications. 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 extended 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 was substantially completed on November 30<sup>th</sup>, 2009, and the project was certified on December 23, 2009. This project was completed in advance of the December 30, 2010, date outlined in the ISSDP schedule and the Amended Consent Decree. This project will be removed from the next quarter report.
- 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. Design is now at the 60% stage 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 has been delayed and will not be bid with the Hikes Lane Interceptor Phase I as previously mentioned. 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 90% 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 design is 100% complete as of 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 construction was substantially completed on November 20, 2009. 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 entire 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 and construction is in progress with 20% installed as of December 31, 2009. Scheduled construction completion of phase I is November, 2010. 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, and award date was November 4, 2009. Notice to proceed date for phase II was November 30, 2009. 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 Package (PP), Wet Weather Treatment Facility (WWTF), and the Equalization Basin. In this

reporting period, the 90% plans and specifications for the PP and the WWTF were submitted to MSD for review and comment. MSD's comments were returned to the design engineers during this reporting period. On October 3, 2009, MSD held a neighborhood Open House, inviting residents living in a one mile radius of the WQTC. MSD staff was present to lead tours and discuss the purpose and scope of the project along with the expected impacts the construction will have to the site. Unfortunately the Open House was sparsely attended by less than 10 residents. For the Equalization Basin during this reporting period, MSD began negotiations with the adjacent property owner for a needed easement based on the 60% design plans. In the next reporting period, MSD expects to receive the 100% contract plans and specifications for the PP and the WWTF. This will allow MSD to advertise for construction contracts on the two major projects by February 2010 and hold mandatory pre-bid meetings. Easement negotiations will continue for the Equalization Basin Project. 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). 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. MSD received verbal approval of the IOAP during a conference call on September 23, 2009 and submitted the final version dated September 30, 2009. MSD received a conditional approval letter on October 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 are planned activities 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 was bid on December 11, 2009. Easement acquisition is complete. Construction is scheduled to be completed by July, 2010. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.



- Little Cedar Creek Interceptor Improvements (Budget ID H09163) – SSES planning for this service area was completed. To address observed high wet weather flows and existing SSOs in the project area, the Little Cedar Creek SSES project (Budget ID H09389) scope was finalized to investigate this sub-basin in the Cedar Creek WQTC service area. An engineering consultant submitted a proposal on October 15, 2009. Final negotiations were completed in November with a Board award date of November 23, 2009. During the next reporting period, a notice-to-proceed will be issued to begin the SSES project, public meetings will be scheduled and field inspection activities will commence. 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) – SSES planning for this service area was completed. To address observed high wet weather flows and existing SSOs in the project area, the Hite Creek SSES Project (H09394) scope was finalized to investigate this sub-basin in the Hite Creek WQTC service area. An engineering consultant submitted a proposal on October 30, 2009. Final negotiations were completed in November with a Board award date of December 14, 2009. During the next reporting period, a notice-to-proceed will be issued to begin the SSES project, public meetings will be scheduled and field inspection activities will commence. 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, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- Meadow Stream Pump Station In-line Storage Project (Budget ID H09174) – SSES planning for this service area was completed as part of the Hite Creek SSES Project. Please see the above Floydsburg Road Pump Station I&I Investigation and Rehabilitation project for more details on the Hite Creek 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, 2016, in accordance with the IOAP schedule and the Amended Consent Decree.
- Kavanaugh Road Pump Station Improvements Project (Budget ID H09171) – SSES planning for this service area was completed as part of the Hite Creek SSES Project. Please see the above Floydsburg Road Pump Station I&I Investigation and Rehabilitation project for more details on the Hite Creek 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, 2024, in accordance with the IOAP schedule and the Amended Consent Decree.

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### Floyds Fork Area

- Ashburton Pump Station Improvements and Diversion (Budget ID A09092) – This project addressed overflows at Ashburton and Olde Copper Court Pump Stations by directing flow from Ashburton PS through 475 LF of upsized force main to an 8-inch gravity sewer system in a neighboring subdivision. This project was accelerated from what is shown in the Final SSDP. Notice to proceed for construction was issued on August 31, 2009. A new 3-inch FM was installed in place of the existing 2-inch FM on November 19, 2009. Problems with damage to an adjacent water main delayed the completion of construction. Construction was substantially completed on December 30, 2009. Certification of this project will occur in January 2010. 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 service area was completed. To address observed high wet weather flows and existing SSOs in the project area, the project scope was finalized to investigate this sub-basin in the Floyds Fork WQTC service area. An engineering consultant submitted a proposal on November 30, 2009. Final negotiations started in December and will need to continue before a contract can be awarded. During the next reporting period, final negotiations will be completed, the project will be awarded and a notice-to-proceed will be issued to begin the SSES project. In addition, public meetings will be scheduled and field inspection activities will commence. 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.
- Woodland Hills PS Diversion (Budget ID H09169) - Planning for this project will start in FY10. This project consists of installing diversion pipe to allow dry weather flow to drain to an interceptor and use the pump station only during wet weather flow. All phases of the project will be completed by June 30, 2011, 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 and the project is on hold. 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 will monitoring the developer's progress, and will self-perform this project if needed to ensure that all phases of this project will completed in advance of the December 31, 2021, date in the IOAP schedule.

- Jeffersontown WQTC Elimination (Budget ID H07293) - The final plan for eliminating blending at the Jeffersontown WQTC will be completed during the next reporting period, and submitted to EPA and KDEP by March 31, 2010. This plan will select an approach and a schedule to either eliminate or upgrade the WQTC. All phases of the project will be completed by December 31, 2015, in accordance with the IOAP schedule and the Amended Consent Decree.

#### **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 a Phase II Environmental Assessment has been completed. Negotiations for design of the basin are in progress. We expect negotiations to be completed in the next quarter and design to be in progress. The project will be completed by December 31, 2013, in accordance with the IOAP schedule and the Amended Consent Decree.
- Hurstbourne I&I Investigation and Rehabilitation (Budget ID H09219) - The planning phase for this project continued. This project area is located in the Lower Middle Fork Interceptor ICA Phase 2 assessment report 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 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 continues. During the next reporting period the project rehabilitation scope will be finalized and staff will begin the preparation of bid documents. The project is scheduled 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.
- Parkview Estates I&I Investigation & Rehabilitation (Budget ID H09198) - SSES planning will start by June 30, 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.

#### **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

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of an interceptor, elimination of the Cooper Chapel pump station, and construction of collector sewers for properties with septic tanks in the area. This project is in the easement acquisition stage. Since the last reporting period, Metro Public Works has delayed its construction schedule for the road project and the sewer construction has been put on hold. 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 consisted 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 was also included in this project. In response to maintenance issues with this pump station the project was accelerated to avoid a costly rehabilitation of a facility planned to eventually be eliminated. Project was substantially complete with the flow diverted on July 10, 2009. This project was certified on July 28, 2009. All phases of the project are complete and the project has been closed out. The project was completed well in advance of December 31, 2010, 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 90% design stage and easement acquisition is in progress. The design and easement acquisition are expected to be complete by March 30, 2010. 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 is complete. This project will be completed under the Lea Ann Way SSES project (see Lea Ann Way System Improvements Project). To address observed high wet weather flows and existing SSOs in the project area, the Lantana Pump Station SSES scope was finalized to investigate this sub-basin in the Lea Ann Way Pump Station service area. Final negotiations were completed in November with a Board award date of November 23, 2009. During the next reporting period, a notice-to-proceed will be issued to begin the SSES project, public meetings will be scheduled and field inspection activities will commence. 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, 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 is complete. This project will be completed with the Little Cedar

Creek SSES project (see above Little Cedar Creek Interceptor Improvements Project). An engineering consultant submitted a proposal on October 15, 2009. Final negotiations were completed in November with a Board award date of November 23, 2009. During the next reporting period, a notice-to-proceed will be issued to begin the SSES project, public meetings will be scheduled and field inspection activities will commence. 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 September 31, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.

- Lea Ann Way System Improvements (Budget ID C08433) - SSES planning for this area is complete. To address observed high wet weather flows and existing SSOs in the project area, the Lea Ann SSES project (Budget ID H09096) scope was finalized. Final negotiations were completed in November with a Board award date of November 23, 2009. A portion of the condition assessment in this area was performed by our ICA (Interceptor Condition Assessment) Contractor. The ICA contractor completed all remaining field inspections and submitted a draft ICA report on December 29, 2009, for MSD review.

During the next reporting period, a notice-to-proceed will be issued to begin the SSES project, public meetings will be scheduled and field inspection activities will commence. 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. The final Lea Ann Way ICA report will be submitted to MSD. 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. The design of Phase I is at the 60% stage and property acquisition will be in progress in the next reporting period. Design and acquisition is expected to be complete by June 30, 2010. Phase I construction will be completed by December 31, 2012, 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. The preliminary design study for the alternate alignments was completed 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 within the next reporting period. Final design of the previously prepared plans for the River Road Interceptor is nearly complete and easement acquisition is in progress. The River Road Interceptor was scheduled for bid in the spring of 2010 but has been delayed due to environmental concerns by USF&W over potential for Running Buffalo Clover. Project has been delayed until after the spring blooming season. 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 90% stage and easement acquisition is in progress. Design and easement acquisition should be complete in the next reporting period. Construction is scheduled to be complete in calendar year 2010. 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 75% of the easements have been acquired. Project is pending DOW approval and 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) – SSES planning for this project is complete. To address observed high wet weather flows and existing SSOs in the project area, the Camp Taylor SSES Project (Budget ID H09388) scope was finalized. Final negotiations were completed in November with a Board award date of December 14,

2009. During the next reporting period, a notice-to-proceed will be issued to begin the SSES project, public meetings will be scheduled and field inspection activities will commence. The consultant started their initial 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 continues. A portion of the condition assessment in this area was performed by our ICA (Interceptor Condition Assessment) Contractor. The ICA contractor completed all remaining field inspections. During the next reporting period, the ICA contractor will assess the data and submit 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) – SSES planning for this project is complete. A project area and scope was finalized for an SSES project. An engineering consultant was selected to perform the SSES services. The consultant was given an RFP letter on October 22, 2009. The consultant submitted their proposal on December 5, 2009, with preliminary negotiations occurring on December 18, 2009. During the next reporting period, final negotiations will be completed, the project will be awarded and a notice-to-proceed will be issued to begin the SSES project. In addition, planning for the public meetings and field inspection activities will commence. All phases of the project will be completed by June 30, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.
- Hazelwood Pump Station I&I Investigation and Rehabilitation (Budget ID H09181) - SSES planning for this project is complete. A project area and scope was finalized for an SSES project. An engineering consultant was selected to perform the SSES services. The consultant was given an RFP letter on October 22, 2009. The consultant submitted their proposal on December 5, 2009, with preliminary negotiations occurring on December 18, 2009. During the next reporting period, final negotiations will be completed, the project will be awarded and a notice-to-proceed will be issued to begin the SSES project. In addition, planning for the public meetings and field inspection activities will commence. 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 is complete. To address observed high wet weather flows and existing SSOs in the project area, the Lake Forest SSES Project (Budget ID H09396) scope has been finalized. The consultant was given an RFP letter on October 10, 2009. The consultant submitted their proposal on December 4, 2009, with preliminary negotiations occurring on December 22, 2009. During the next reporting period, final negotiations will be completed, the project will be awarded and a notice-to-proceed will be issued to begin the SSES project. In addition, planning for the public meetings and field inspection activities will commence. 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) – SSES planning for this project is complete. A project area and scope was finalized 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. 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 submitted a proposal on October 30, 2009. Final negotiations were completed in November with a Board award date of December 14, 2009. During the next reporting period, a notice-to-proceed will be issued to begin the SSES project, public meetings will be scheduled and field inspection activities will commence. 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) – SSES planning for this project is complete. 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) – SSES planning for this project is complete. 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) - SSES planning for this project is complete. 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) addresses the overflows and unauthorized discharges from the CSS. Two separate plans have been submitted under this program as described below and outlined in Paragraph 25.b. of the Amended Consent Decree.

#### 3.3.1 Interim CSO Long Term Control Plan

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

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). 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. MSD received verbal approval of the IOAP during a conference call on September 23, 2009 and submitted the final version dated September 30, 2009. MSD received a conditional approval letter on October 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 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 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.
- Second and Broadway Green Parking Lot (Budget ID H09426) – 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.

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- 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 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.
  - Sixth and Broadway Rain Garden (Budget ID H09429) - 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.
  - 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 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.
  - Campbell and Main Permeable Alley (Budget ID H09432) – 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.
  - Roy Wilkins and Market Green Street(Budget ID H09433) – Relocated the project to allow for greater public visibility. 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.
  - Two (2) Additional Rain Garden Projects (Budget ID H10039 and H10040) – Selected preliminary locations of rain gardens are for: Christ the King Church and Clifton Triangle Area. Planning for this project is underway and design will begin 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.
  - I-264 Off-Ramp Dry Well (Budget ID H09442) - Planning for this project will start by March 30, 2010, contingent on coordination with EPA Region 4 regarding permitting requirements. All phases of these projects will be completed by December 31, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.
  - I-264 On-Ramp Dry Well (Budget ID H09443) - Planning for this project will start by March 30, 2010, contingent on coordination with EPA Region 4 regarding permitting requirements. All phases of these projects will be completed by December 31, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.

- I-264 and Gibson Dry Well (Budget ID H09444) - Planning for this project will start by March 30, 2010, contingent on coordination with EPA Region 4 regarding permitting requirements. All phases of these projects will be completed by December 31, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.
- Russell Lee Drive Dry Well (Budget ID H09445) - Planning for this project will start by March 30, 2010, contingent on coordination with EPA Region 4 regarding permitting requirements. All phases of these projects will be completed by December 31, 2011, in accordance with the IOAP schedule and the Amended Consent Decree.
- JFK Montessori Area Dry Well (Budget ID H09446) - Planning for this project will start by March 30, 2010, contingent on coordination with EPA Region 4 regarding permitting requirements. All phases of these projects will be completed by December 31, 2011, 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. Initiated the preliminary design study to 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 60% 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 Site Assessment, historical and archaeological review, and permit requirements has been completed. A Phase II Environmental Site Assessment is in progress. The preliminary (30%) design study is expected to be complete 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.
- CSO108 Dam Modification (Budget ID H09128) – Initiated project design in October 2009. All phases of the project will be completed by December 31, 2010, in accordance with the IOAP schedule and the Amended Consent Decree.
- CSO206 Downspout Disconnections (Budget ID H09131) – Continued planning for this project to disconnect downspouts. A demonstration project to disconnect downspouts by private property owners will begin in the next reporting period. All phases of the project will be completed by December 30, 2013, in accordance with the IOAP schedule and the Amended Consent Decree.
- I-64 and Grinstead Drive Storage Basin (Budget ID H09121) – Solicited a request for proposal from a design consultant. During the next reporting period, design negotiations will be finalized. Notice to proceed is expected to be completed by March 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) – Selected a design firm to prepare a project definition and a schematic design for this proposed facility. The

fee proposal was reviewed and negotiations initiated. During the next reporting period, it is expected that the contract negotiations will be complete and the contract awarded. 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) - Received 50% design submittal for the project on November 30, 2009. During the next reporting period 80% and 100% final design documents will be received. 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) - Received 50% design submittal for the project on November 19, 2009. During the next reporting period 80% and 100% final design documents will be received. All phases of the project will be completed by December 31, 2012, in accordance with the IOAP schedule and the Amended Consent Decree.
- 27<sup>th</sup> Street Flood Pump Station (Budget ID H09126) – Completed planning for this project. Final design services were negotiated on December 29, 2009. During the next reporting period a final design contract will be awarded. The actual design work is planned to start August 2010. All phases of the project will be completed by June 30, 2013, in accordance with the IOAP schedule and the Amended Consent Decree.
- Shawnee Flood Pump Station (Budget ID H09136) – Completed planning for this project. Final design services were negotiated on December 29, 2009. During the next reporting period a final design contract will be awarded. The actual design work is planned to start August 2010. All phases of the project will be completed by June 30, 2013, 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 following is a brief discussion of recent and upcoming activities related to each element:

- Environmental Data Integration Site Development - 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. In the meantime, MSD has continued to improve the overall accessibility of data reported from its SCADA and LIMS systems for pump station, Real Time Control and laboratory information as well as standardize various environmental data sets in

preparation for integrated data querying and display through an upcoming data site.

- Quality Assurance and Quality Control Definition and Implementation – Worked on the development of 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 - 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. MSD identified equipment needs for each project and developed an installation plan and timeline for each that will capture the data needed to perform the case study during December, 2009. 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 – Developed 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. Completed negotiations for sewer modeling services to address model cleanup, further standardization, and additional calibration to new flow information before December 31, 2009. 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 – Performed dry and wet weather sampling over the past few months surrounding the ISSDP SSO areas as well as CSO206. MSD assessed the data collected to date around these project areas and will 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 – Implemented new telemetry software on its system. Approximately 70 new flow monitoring sites, including 18 CSO sites, now report through the Telog Enterprise software system, in addition to the CSOs and sewer flows reported through SCADA. MSD is testing the event notification capabilities of the software to assist in notifying MSD staff when certain sewer conditions or battery levels are reached.
- Stream Flow & Ambient Monitoring – Continued MSD's partnership with the USGS with an annual cost and resource share for the maintenance of stream flow gauges 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 year.



- Rain Gauge and Radar Rainfall Data Collection – Continued to operate 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. The radar rainfall data along with rain gauge and stream monitor information is served to users through an internet application. Training was held for MSD staff on the use of this application. 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 - Completed in December 2009, the fish, macroinvertebrate and habitat surveys for the Long Term Monitoring Network and scheduled the collection of 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 year 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. MSD will be meeting regularly to discuss environmental data needs of the utility, upcoming reporting needs, and the direction of the different program aspects.

Finally, as part of the IOAP and MS4 commitments, MSD completed a 2009 water quality synthesis report at the end of December 2009, which trended water quality information gathered and correlated impacts of various pollutant sources such as combined sewer overflows, impervious area, and land use.

### 3.5 Green Program Development

The Green Program framework was submitted as part of the IOAP. The following programmatic development started in FY10.

- Initiated 17 of the 19 green infrastructure demonstration projects as described in the IOAP, with completion dates ranging from December 31, 2010, to December 31, 2011.
- Conducted internal discussions on the development of the programmatic elements, including the financial incentives program for government and private (commercial and residential) partners, public information, outreach and education, project identification, prioritization and implementation, etc.
- Developed the plan for the green infrastructure effectiveness monitoring for the 19 demonstration projects, and purchased equipment to install preconstruction monitors in the next reporting period. Data will be utilized to document the efficacy of the demonstration technologies for “right-sizing” of gray IOAP projects.

- Initiated development of design guidance documents for green infrastructure, and develop a work plan to update appropriate MSD design documents.
- Initiated a green infrastructure tracking program followed by an inspection program for those green assets constructed by MSD, its partners, and private residents; specifically inspect those assets that are being used in impervious area reductions and CSO reduction and project sizing calculations.
- Initiated a review of the existing Louisville Metro Land Development Code to identify potential impediments to green infrastructure implementation, and also began to identify proactive measures that could facilitate institutionalizing green practice in typical developments.
- Develop a plan to present recommended suggested Land Development Code changes to Louisville Metro government for consideration.

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## 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

- Worked with the Parks Department to develop 3 additional interpretive signs. These signs will be installed in the next quarter at Grinstead Drive and Lexington Road in accordance with the National Parks signage specifications. See **Appendix H** for a preview of these signs.
- Schedule the annual sign inspection process.
- Perform an annual evaluation of the sign location against the documented overflows to ensure all needed signs are in place.

#### 4.1.2 Project WIN Website

- Developed a website to facilitate communication with customers on the Beechwood Village project. The site is available with a link on the Project WIN website. Select Construction Projects to link to the website. <http://inet.msdlouky.org/bwvillage>
- Continued to develop a website to facilitate communication with customers on the Camp Taylor SSES project. The site will become available to the public from a link on the Project WIN website by March 30, 2010.
- Continue 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](http://www.msdlouky.org/projectwin).



#### 4.1.3 Electronic Notifications

- Notified customers who voluntarily sign up to receive email alerts regarding sewer overflows.
- Provided notification of on 9 Dry Weather Unauthorized Discharges of more than 1000 gallons. These events required additional notification due to the volume of dry weather overflow involved.



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- Begin the process to evaluate the email alert program and messages and develop an action plan to increase participation in the email program, and to improve retention of those who sign up.

#### 4.1.4 Print Notifications

- Mailed 1,100 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. Distributed approximately 250 packets at public meetings.
- Mailed out 0 FOG residential public outreach letters to areas that had FOG issues during this reporting period.
- Distribute informational material, providing a general overview and awareness relating to public health impacts associated with sewer overflows and an update of Project WIN initiatives by May 1, 2010.
- Distribute, prior to May 1, 2010, the annual mailing to residents within 500 feet of Beargrass Creek and Ohio River.

#### 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. Efforts continued to utilize various media outlets, including television, radio, magazines, and newspapers to serve as a conduit for disseminating information to the public. The following activities occurred within this reporting period or are scheduled to occur.

##### 4.2.1 Radio and Television Activities

- Continued to run TV spots during the Troubleshooter Show (WAVE TV) on Mondays 10:30 am - 11:00 am. Spots ran once a week through the end of December. The commercial focused on FOG issues.
- Started to run TV spots on WLKY TV in October. The spots in October focused on Stormwater. In November through December, the spots focused on the FOG program.
- Appeared on WAVE 3 Listens on October 6, 2009. MSD was represented by Executive Director Bud Schardein.
- Continued to show on Metro TV (Channel 25) the **Project WIN 2008 video series** - a series of seven videos to inform the public about MSD, the Amended Consent Decree and Project WIN. During this quarter the video was shown 5 times.

##### 4.2.2 Printed Media Activities

- Advertised to inform the public on Project WIN activities in *Business First*, *Today's Woman*, and in *Louisville Magazine*.
- Provided the MSD *Crosscurrents* to all elected officials, internal staff, and customers that have contacted MSD with either drainage or a back-up problem. The majority of the articles relate to Project WIN.

- Provided the MSD *Update* to customers and staff each month. Project WIN related articles are contained in each issue. These publications are available on the MSD Web site.
- Placed Project WIN ads in the "Her Magazine" (a publication put out by Courier Journal) in the Holiday 2009 issue.
- Printed 5,000 2<sup>nd</sup> Edition Rain Garden Manuals for distribution to customers.

#### 4.2.3 IOAP Project and Program Meetings

- During this reporting period there were no Project WIN public meetings.
- Scheduled a Stakeholders Group meeting for January 28, 2010. 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.
- Provided information to the WWT through the Project WIN website, at [www.msdlouky.org/projectwin](http://www.msdlouky.org/projectwin).
- Attended or will attend the following "**Mayor's Community Conversations**"
  - October 19, 2009 - Southern High School large gym, 8620 Preston Highway
  - November 16, 2009 - Central High School large gym, 1130 W Chestnut Street
  - Monday, January 25 - Newburg Middle School Gym, 4901 Exeter Avenue
  - Monday, February 15 - Carter Elementary School Cafeteria, 3600 Bohne Avenue
  - Monday, March 15 - Valley High School Gym, 10200 Dixie Highway

#### 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

- Facilitated presentation to the New Direction Housing Neighborhood Round Table on Urban Storm Water and Residential Rain Gardens in November 2009.
- Planted the final tree and shrubs in the Main Office Rain Garden during October 2009.
- Constructed a rain garden at Jackson Woods Apartments in October 2009.
- Scheduled rain garden workshops at various times throughout the year:
  - Selected the sites for Clifton Green Triangle Rain Garden Workshops. April 10, 2010, for 3213 University Road and April 24, 2010, for Brownsboro Road.
  - Scheduled presentation to Bon Air Community group on Urban Storm Water for January 18, 2010.
  - Scheduled presentation for the Jeffersontown Garden Club on Urban Storm Water

and Rain Gardens for February 4, 2010.

- Scheduled presentation for the Audubon Garden Club on Urban Storm Water and Rain Gardens February 8, 2010.
- Scheduled presentation for the Women in Construction on Urban Storm Water and Rain Gardens for February 8, 2010.
- Designed interpretive signage for the Main Office Rain Garden. Installation scheduled for the 2<sup>nd</sup> Quarter 2010.
- Schedule rain garden installations for John Paul II Elementary School & Brandeis Apartments.
- Begin planning for internal and external workshops explaining the Green Infrastructure Program in the next quarter.

#### **4.3.2 Clean Streams Workshops and Activities**

- Facilitate the X-Stream Clean Sweep on March 27, 2010.

#### **4.3.3 Children's Education Activities**

- Provided direction on the implementation of outdoor classrooms at: Brandeis Elementary, Jeffersontown Elementary, DuPont Manual High School, and the Floyds Fork WQTC.
- Participated in the Kentucky Green and Healthy Schools Water Inventory on October 19, 2009. See [www.greenschools.ky.gov](http://www.greenschools.ky.gov) for more information.
- Participated in the Rain Gardens & Square Foot Measuring, educational opportunity, for the Environmental Club of John Paul II Elementary School on October 21, 2009.
- Participated in discussions with Environmental Magnet Schools Portland and Cane Run Elementary Schools regarding the plans for environmental classroom/green education opportunities on-site.
- Continued support for Eastern High School's Environmental Program at Floyds Fork WQTC by providing meeting space on-site for classes.

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## **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 CMOM document can be viewed on the MSD Project WIN website [www.msdlouky.org/projectwin](http://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

- Posted the revised Design Manual to the MSD website. Updates to the manual will continue to be made as needed.

###### Next Quarter

- Complete the migration to tracking performance measures and project milestones through SharePoint.

##### **M-E-8 Continuing Sewer System Assessment**

###### This Quarter

- Initiated 14 SSES projects to find system defects to help determine the potential number of credits available from rehabilitation.
- Received final SSES report for Anchor Estates Pump Stations 1 and 2.
- Continued to perform the Interceptor Condition Assessments and review the results of the ICAs to determine the potential number of credits available for rehabilitation. Budget has been allocated to develop additional rehabilitation projects from the ICA Phase 1 and 2 data review.
- Ensured that CCTV inspection data for the SSES's or condition assessments is captured in PACP format.
- Continued condition assessments for manholes in strategic areas. MSD will follow the Gravity Line Preventive Maintenance FY10 schedule. Inspection data will be reviewed and manhole defects will be corrected as they are found. Inspected a total of 79 MHs as part of the SSES projects and completed 122 inspections in the Caven Pump Station service area.
- Identified new priority areas for Condition Assessment and initiate associated inspections.

- Performed formula-based CCTV inspection on a total of 86.92 miles. These inspections were performed by a combination of contractors and MSD crews.
- Installed the Neztex software in production to facilitate data transfer for PACP TV inspections from the Hansen asset management system to remote inspection software and back. Conducted a project meeting on November 2, 2009, with the SSES vendors to outline data collection and transfer protocols for the various inspections associated with the SSES projects.
- Continued ICA Phase 3 professional services to complete the following interceptor condition assessments. Condition assessment reports will be completed for each area:
  - Mill Creek Trunk (Budget ID H09399) – FY10 CSSA Area. Completed all field TISCIT inspections. Draft report will be delivered next reporting period.
  - Ohio River Interceptor (Budget ID H09400) – FY10 CSSA Area. Completed 95% of all field TISCIT inspections. Access limited inspection of approximately 3,500 LF. MSD will coordinate with contractor to provide access to this site, all field TISCIT inspections will be completed and a draft report will be delivered during next reporting period.
  - Upper Dry Run Trunk (Budget ID H09404) – FY10 CSSA Area. Completed all field TISCIT inspections. Draft report will be delivered next reporting period.
  - Sneads Branch Relief (Budget ID H09402) – FY10 CSSA Area. Completed all field TISCIT inspections. Draft report will be delivered next reporting period.
  - Lea Ann Way Interceptors (Budget ID H09398) – IOAP SSES Project. Completed all field TISCIT inspections. Draft report was delivered December 28, 2009. During the next reporting period MSD will review the report and begin planning for any potential rehabilitation as identified in the assessment report.
  - Camp Taylor Interceptors (Budget ID H09407) – IOAP SSES Project. Completed all field TISCIT inspections. Draft report will be delivered next reporting period, MSD will review the report and begin planning for any potential rehabilitation as identified in the assessment.
  - Flood Protection System – COE inspection requirement. Completed 95% of all field TISCIT inspections. Additional work was requested by I&FP to assess the gates along the flood levee in addition to all pipe penetrations delaying submittal of draft report. Draft report will be delivered next reporting period.

#### Next Quarter

- Continue to perform the Interceptor Condition Assessments and review the results of the ICAs to determine the potential number of credits available for rehabilitation
- Perform CSSA tasks and review results of CSSA to determine the potential number of credits available for rehabilitation.
- Delineate and prioritize areas/lines for FY11 rehabilitation based upon the need for credits, the data from condition assessments and the results from the ICA and SSES data.

- Develop projects for rehabilitation to target priority lines in FY11.
- Review and develop a plan to start rehab efforts identified in the Anchor Estates SSES project.
- Receive ICA Phase 3 reports for the following projects:
  - Camp Taylor Interceptors (Budget ID H09407) – IOAP SSES Project.
  - Mill Creek Trunk (Budget ID H09399) – FY10 CSSA Area.
  - Ohio River Interceptor (Budget ID H09400) – FY10 CSSA Area.
  - Upper Dry Run Trunk (Budget ID H09404) – FY10 CSSA Area.
  - Sneads Branch Relief (Budget ID H09402) – FY10 CSSA Area.
  - Flood Protection System – COE inspection requirement.

### **M-E-9 Infrastructure Rehabilitation**

#### **This Quarter**

- Edgewood Separation (Budget ID H09202) – This project is in the CSO209 sewershed which was separated and CSO eliminated September 30, 2005. A new project scope was created to correct sanitary connectivity to the storm sewer by installing a 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. Plans have been finalized as of December 31, 2009. Project is expected to be awarded in the next reporting period. 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 as the manholes are located in wetlands near a large regional basin. MSD will continue to monitor site for access.
- Sears Avenue Sewer Replacement (Budget ID A09501) - This project, located on Sears & Oechsli Avenue replaced approximately 1,100 L.F. of an 8-inch diameter sanitary sewer that had a history of FOG issues. MSD staff completed the design in May 2009. This project was bid on July 22, 2009. Construction was completed on December 22, 2009.
- Goose Creek Pump Station (Budget ID F07070) Grinder Installation – The project was awarded on December 14, 2009. During the next reporting period a notice to proceed for construction will be issued. Construction is scheduled to begin February 2010.
- Lea Ann Way Pump Station (Budget ID F07069) Grinder Installation – The project was awarded on October 26, 2009, and a notice to proceed for construction was issued on November 24, 2009. A pre-construction meeting was held December 22, 2009. Construction is scheduled to begin January 2010.



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- Brandeis Viaduct #2 Pump and Controls Modifications (Budget ID F04192) – The project was awarded on October 26, 2009, and a notice to proceed for construction was issued on December 7, 2009. A pre-construction meeting was held December 28, 2009. Construction is scheduled to begin January 2010.
  - Shively Pump Station Grinder Replacement Project – Planning was completed to replace the existing grinders. An RFP was issued and fees negotiated for design services for the replacement project. During the next reporting period, budget will be appropriated to create a project and a notice-to-proceed will be issued to initiate design services.
  - Meadow Stream ARV Replacement (Budget ID H09338) – New draw down studies were completed during October that determined no significant capacity improvements were gained from the installation of the 10 new air release valves(ARVs). The pump station will have an SSES project completed during FY 11.
  - Fairmount Road Pump Station Expansion (Budget ID E00303) – Received technical memo and scope to expand pump station from consultant. MSD completed negotiations and design will start for the expansion during the next reporting period
  - Gorham Way Pump Station Elimination – MSD staff is reviewing several sewer alignments. Substantial rock will be encountered in all possible elimination routes. The final design and easement acquisition 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) - This 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. Notice to proceed for Construction was issued on October 26, 2009, flow was diverted from the pump station on December 28, 2009, and final construction completion is scheduled for Feb. 26, 2010.
  - Lake Louisville 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 reached the 60% stage and easement acquisition has started. Design 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 and easement acquisition are complete. Construction on this project is scheduled to start in the next reporting period, with substantial 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 90% complete and easement acquisition is in progress. Some changes in the alignments and addition line segments are being included in the design. Design will continue through the next reporting period. The project will be constructed in four phases. Phase I will be the construction of the new pump station and is the critical facility. The pump station completion will dictate the schedule for the completion of the interceptor to eliminate 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 the interceptor sections. The second phase is the interceptor that will eliminate the existing Arnold Palmer PS and Chenoweth Run/Lake Forest WQTC. The third phase is a section of interceptor that will be completed by developers. The fourth phase will be the interceptor to eliminate St. Clair PS, Starview WQTC and Berrytown WQTC. Phase I, the new pump station, is scheduled to be advertised for construction in first quarter of 2010 with construction complete in first quarter 2011. The second phase is scheduled to start construction by fourth quarter 2010, with construction complete by October 31, 2011. The third and fourth phases are scheduled to start construction in 2011 and should be completed in 2012.

#### Next Quarter

- 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.
- Continue to complete rehabilitation work and report accordingly.
- Continue to work on the procedures for documentation of rehabilitation and calculation of SCAP credits.

#### **M-E-10 System Capacity Assurance Program**

#### This Quarter

- Started to collect formula-based defect inspection of significant footage of sewer lines in various sewersheds across the county. In addition, contract arrangements moved forward to increase these efforts. This information will be used to prioritize cleaning and rehabilitation efforts that will remove inflow and infiltration from the system and create capacity credits.
- Enhanced the tracking of Pump Station capacities, reviewed testing results and identified action items pertaining to deficiencies. Critical results of this effort are being documented on each station asset within the Hansen system.

#### Next Quarter

- Continue to track WQTC capacities and new development flows 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.

- Complete a capacity credit evaluation for each credit catchment and balance with approved new flows. Rehabilitation efforts using existing sewer condition data will be advanced to remove inflow and infiltration and generate capacity credits.
- Complete development of an SCAP training module and schedule training dates 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 Spare Parts Inventory Management Program**

#### This Quarter

- Reviewed security scan control pads access for inventory control measures.
- Continued review of inventory with department managers to identify obsolete items.
- Completed the first phase of the Bar-Code Scanning Project which included consultation of site survey and estimated charges for software, hardware and training.
- Initiated phase one of cycle counting (SAP operations delayed event.)

#### Next Quarter

- Begin the second phase of the Bar-Code Scanning Project to review all information and determine if budget allowances can support a project initiative before implementation of a bar-code system.
- Begin testing of SAP processes with new location of Hite Creek WQTC Storeroom for implementation of cycle counting.
- Prepare for Annual Physical Inventory.

### **M-H-2 Equipment and Tools Repair Management**

#### This Quarter

- Initiated 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.
- Initiated odor control initiatives and vegetation improvements at CMF with management.
- Utilized two approved contracts for motor and pump repair.
- Repaired ITX Gas Safety Monitors through an outside contractor after internal calibration and testing is complete. All repair files and history log is maintained by the CMF Storeroom, which is the central repair station for MSD.

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Next Quarter

- Finalize Vehicle Tool Inventory checklists and SOP for purchasing and replacement tools for Infrastructure and Flood Protection crew vans and trucks.
- Initiate the Kaizen event for Equipment and Tool Repair process in February 2010.

**M-H-4 Supplies Management**

This Quarter

- Negotiated and approved Vendor Managed Inventory (VMI) contract with a local vendor for electrical supplies.
- Approved for quoting, the bid proposal for inventory managed of gas cylinders for all locations, which will provide better chemical and gas controls throughout MSD.
- Tested soy-based industrial hand cleaners and lotions for all maintenance and fleet shop employees.
- Continued environmental assessment of chemical and oil clean-up at Metro Operations and Morris Forman WQTC.
- Approved two contracts for hazardous and non-hazardous waste removal.
- Established monthly meetings with all locations to better service tool and inventory needs.

Next Quarter

- Complete bid proposal for inventory managed of gas cylinders for all locations, which will provide better chemical and gas controls throughout MSD and maintain emergency records for Fire Department.
- Implement lean manufacturing quality improvements, such as 5-S, in the warehouse non-inventory working area at CMF. 5-S is a system to identify waste and opportunities for improvement, then bring order to the work environment through establishing efficient flow of material, supplies and activities.
- Begin recycling pick up service to Metro.
- Complete testing and installation of soy-based industrial hand cleaners and lotions for all maintenance and fleet shop employees.
- Continue environmental assessment of chemical and oil clean-up at Metro Operations and MFWQTC.
- Complete cost savings initiatives with janitorial supplies for all divisions at MSD for bid package by January 2010.
- Continue monthly meetings with all locations to better service tool and inventory needs.

**M-H-3 Vehicle Repair**

MSD's vehicle repair maintenance program addresses over 600 pieces of rolling stock, including automobiles, trucks, trailers, construction equipment (backhoes, mobile cranes, etc.) and specialty sewer maintenance equipment. For the purpose of the CMOM program, MSD

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established a list of “Mission Critical” (MC) equipment required for sewer inspection and maintenance. “MC” equipment includes:

- Catch Basin Cleaners (mechanical clamshell type)
- High-Pressure Sewer Flusher Trucks
- TV Inspection Vehicles
- Vacuum Sewer & Catch Basin Cleaner Trucks
- Sound Attenuated 6" Trash Pumps

#### This Quarter

- Performed an evaluation of work order history on mission critical equipment. This data review indicated that on average the:
  - Six Vacuum Catch Basin & Sewer Cleaners were available 98.91 % of the time.
  - Seven Sewer Flushers were available 97.36 % of the time. Two additional units were out of service.
  - Four Catch Basin Cleaners (Clamshell) were available 97.28 % of the time. One additional unit was out of service.
  - Six TV Inspection Trucks were available 93.66 % of the time.
  - Thirteen Sound Attenuated 6" Trash Pumps were available 99.00 % of the time.
- Initiated Procurement for the following:
  - Catch Basin Cleaners (mechanical clamshell type). Expected delivery 01/2010.
  - 5 TV Inspection Vehicles. Expected delivery 4 - 03/2010 and 1 - 07/2010.
  - 4 Vacuum Sewer & Catch Basin Cleaner Trucks. Expected delivery 3 - 01/2010 and 1 - 07/2010.
- Continued utilizing manual techniques for analyzing availability/downtime data and compiling quarterly reports for mission critical equipment :
- Selected the Fleet Management Information System (FMIS) system to be procured: CCG FASTER.

#### Next Quarter

- Procure the FASTER software in the first quarter of 2010.
- Define the data to migrate to FASTER prior to June 30, 2010.
- Determine the information and reporting components/attributes/processes needed in FASTER to better manage availability of mission critical equipment, and enhance MSD's ability to perform core business.
- Finalize performance measures for CMOM critical equipment by June 2010.
- Complete in-service processing and release new mission critical equipment acquired during fiscal year.

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- Provide in-house Vacuum Catch Basin Cleaner “Basic Mechanics” factory training program for sixteen (16) Fleet Services technicians.
  - Initiate out-of-town Vacuum Catch Basin Cleaner “Advanced Mechanics” factory training program for eight (8) Fleet Services technicians upon completion of basic program.
  - Identify “Performance Measures” to be tracked with new Fleet Management Information System (FMIS) and establish acceptable benchmarks for each element to be measured.
  - Deploy the new FMIS software by December 2010.

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

#### This Quarter

- Deferred further work on the redraft of the Private Property Ordinance. MSD has a significant increase in participation in the voluntary Plumbing Modification Program, probably as a result of backups caused by the August 4, 2009, storm. Work on this ordinance will be restarted later in calendar year 2010, after the backlog of Plumbing Modification projects has been reduced.

#### Next Quarter

- Continue to defer work on a redraft of the Private Property Ordinance during the next reporting period.

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

- Refer to **Section 3.4 Post Construction Monitoring Program** for details on water quality monitoring efforts.

### **5.1.2 Operations Programs**

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

#### This Quarter

- Negotiated a contract for professional services to update the current U.S. Army Corps of Engineers (USACE) Flood Operations and Maintenance Manual. The project will update the four volumes of the operations and maintenance manuals for the Flood Pump Stations (FPS) that will reflect current operational procedures and protocols along with revisions related to changes proposed to reduce dry weather overflows. During the next reporting period a contract will be awarded as part of a fiscal year 2011 design services contract to begin the manual updates. Plan is to have a draft manual update completed by June 30, 2010.
- Determined capital project priorities and the budgetary needs in monthly meetings with Metro Operations and Regulatory Services staff.
- Evaluated the ISCO 4501 Pump Station Flow Monitor. The monitor was installed at the Meadow Steam Pump Station on November 19, 2009. The unit pump station draw down data collected data for one week. The data obtained needed a third party software for evaluation, a modeling program was used to review the data. MSD will continue to use the unit to evaluate pump stations on a case by case basis. To date, the evaluation has



determined the unit may not be a valid tool for day to day pump station operations.

#### Next Quarter

- Meet on a monthly basis with Operations staff to determine capital project priorities and advise on the budgetary needs on a quarterly basis.
- Analyze the master draw down pump station database with all test results and develop an action plan for the pump stations that have performance issues. Rehabilitation projects will be prioritized from this database. These tasks will be coordinated with the Greenline and Emergency Generator Programs.

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

#### This Quarter

- Continued to evaluate the Greenline technical memo's documentation of the lowest home opening elevations and confirmed pump station as-constructed information. 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. A scope for professional services support was issued and fees negotiated. A contract was awarded December 14, 2009.
- 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. Awarded the project on October 12, 2009, and issued a notice to proceed for construction on November 18, 2009. Held a pre-construction meeting on October 29, 2009. Construction began in November 2009. Concrete generator pads have been poured, all utilities have been installed and the generators have been ordered.
- 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. Awarded the project on October 12, 2009 and issued a notice to proceed for construction on November 18, 2009. Held a pre-construction meeting on October 29, 2009. Construction began in November 2009. Concrete generator pads have been poured, all utilities have been installed and the generators have been ordered.
- 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. Awarded the project on November 13, 2009 and held a pre-construction meeting on December 22, 2009.
- Terrier Lane PS Generator (Budget ID H09337) – An emergency purchase order was issued on September 22, 2009, for a 30KW stand-by generator. The generator was delivered to MSD on November 9, 2009. MSD staff completed the installation and all testing on November 19, 2009.

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Next Quarter

- Issue a work order to continue the Greenline analyses. Review lowest home opening elevations and confirmed pump station as-constructed information for the West Region. Begin planning, based on the field information obtain from the lowest home elevations and the as-constructed information, to prevent future home back-ups. Adjust pump station operating levels and install level sensors. Evaluate a wet well level gauge for each pump station site to help in O&M.
- East Region Emergency Generator Project (Budget ID H10082) – Install and operate the generators by January 31, 2010.
- West Region Emergency Generator Project (Budget ID H10084) – Install and operate the generators by February 28, 2010.
- Central Region Emergency Generator Project (Budget ID H10083) – Issue a notice-to-proceed and begin construction. The generators will be installed and operable by March 15, 2010.

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

This Quarter

- Issued 98 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.
- Mailed no FOG residential public outreach letters to areas that had FOG issues during this reporting period.
- Mailed 2230 FOG commercial public outreach letters and FOG brochures to Food Service Establishments in the MSD service area during this reporting period.
- Removed 605,560 gallons of FOG from Grease Control Equipment at Food Service Establishments in the MSD service area.
- Handed out FOG Program related information to Food Service Establishment representatives at the annual Kentucky Restaurant Association Exposition on October 21-22, 2009.
- Advertised in the Fall 2009 edition of PREP Magazine, which is a Food Service Establishment industry journal.

Next Quarter

- 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 recon, as well as collection system grease blockage incidents. MSD will issue enforcement actions to as appropriate to Food Service Establishments found to be in violation of the MSD Wastewater/Stormwater Discharge Regulations.

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- Continue to send FOG residential public outreach letters to residents in neighborhoods in the MSD service area that had FOG issues.
  - Continue to send educational materials to Food Service Establishments in the MSD service area.
  - Conduct another Certified Grease Waste Hauler Training session.
  - Plan and schedule an outreach event for Food Service Establishments in the MSD service area.
  - Advertise in the Spring edition of PREP Magazine, which is a Food Service Establishment industry journal.
  - Initiate Certified Grease Waste Hauler audits.
  - MSD will begin tracking and reporting FOG Program performance measures.

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

- Refer to **Section 3.4 Post Construction Monitoring Program** for details on water quality monitoring efforts.

**5.1.3 Maintenance Programs**

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

This Quarter

- Continued the process of updating the preventive maintenance and inspection plan for 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.
- Continued to use Hansen for preventive maintenance task and corrective work orders for Metro Operations staff that maintain sewer lift stations and small water quality treatment centers.
- Trained Metro Operations staff on October 29, 2009, for the setup of PM work orders for factoring pump stations.
- Completed the WQTC inventory design and started inventory data input.
- Started the inspections on pump station sites that have deficiencies determined during the Draw Down and Greenline Programs. These two programs relate only to pump performance and level controls. Staff proactively inspected all critical equipment on site during these inspections. Check lists were created to document the inspection and list corrective actions needed. Corrective work orders were issued as needed.

Next Quarter

- Continue the WQTC inventory input.
- Conduct additional Hansen training for Metro Operations staff, as more PM processes are converted to Hansen.

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- Continue to perform inspections on pump station sites that have deficiencies determined during the Draw Down and Greenline Programs.

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

This Quarter

- Completed inspections on the following force mains:
  - November 18, 2009 Bridgepointe
  - December 30, 2009 West County
- Conducted the annual force main program evaluation on December 14, 2009. Adjusted the inspection schedule as needed.

Next Quarter

- Schedule the following force mains for inspection:
  - Ohio River Force Main
  - Louisville Boat Club
  - Mockingbird Valley
  - Lake Forest

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

This Quarter

- Performed sewer flushing on 203 line segments and root cut 375 line segments.
- Approved the contract to perform chemical root treatment.
- Defined the areas to target in the next quarter for chemical root treatment.

Next quarter

- Continue working with contractors on CCTV and chemical root treatment.
- Refine the Gravity Line Preventative Maintenance (GLPM) work plan for activities through June 30, 2010.
- Continue working with the contracted sewer evaluation, cleaning, and root cutting consultants and contractors and internal personnel to inspect FY10 priority areas and initiate blockage abatement maintenance measures as appropriate.
- Develop a Standard Operating Procedure for GLPM and enhance the Blockage Abatement Program (BAP) to ensure that sewer lines with certain defect conditions are placed in the program to periodically perform appropriate maintenance actions.
- Schedule and conduct CSSA training and begin development of implementation training for the BAP.

- Review equipment, fleet, and personnel resource needs and availability to allow for completion of tasks developed in the CSSA.

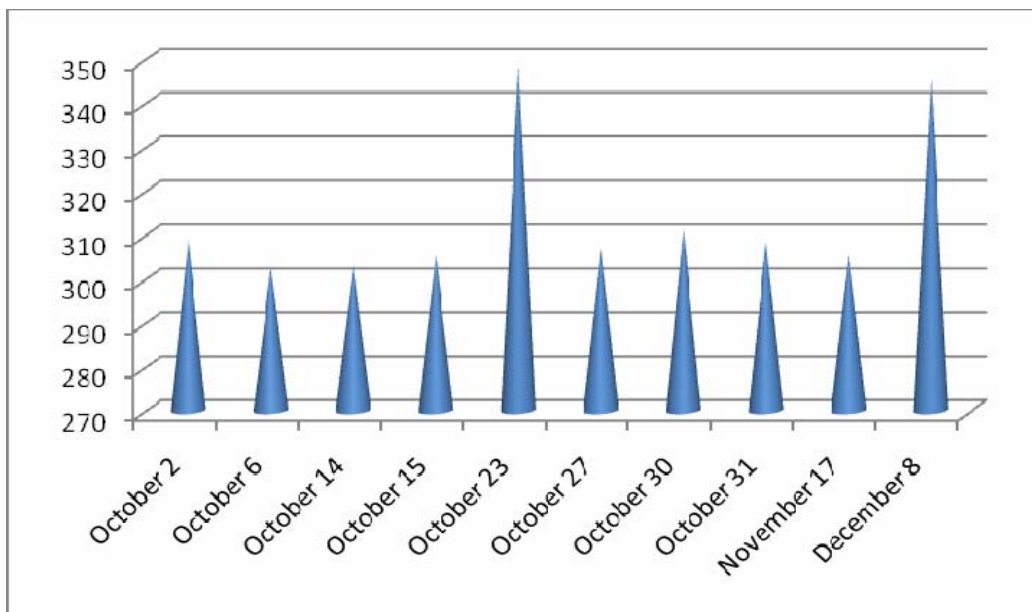
**SECTION 6: Program Activities for Water Quality Treatment Centers**

**6.1 Regional Water Quality Treatment Center Updates**

**6.1.1 Morris Forman Water Quality Treatment Center**

- Treated peak flows greater than 300 MGD at Morris Forman WQTC on 10 different days.
- Operated the Morris Forman WQTC during this reporting period without any permit violations.

**Morris Forman WQTC – Flows over 300 MGD**



**6.1.2 Jeffersontown Water Quality Treatment Center**

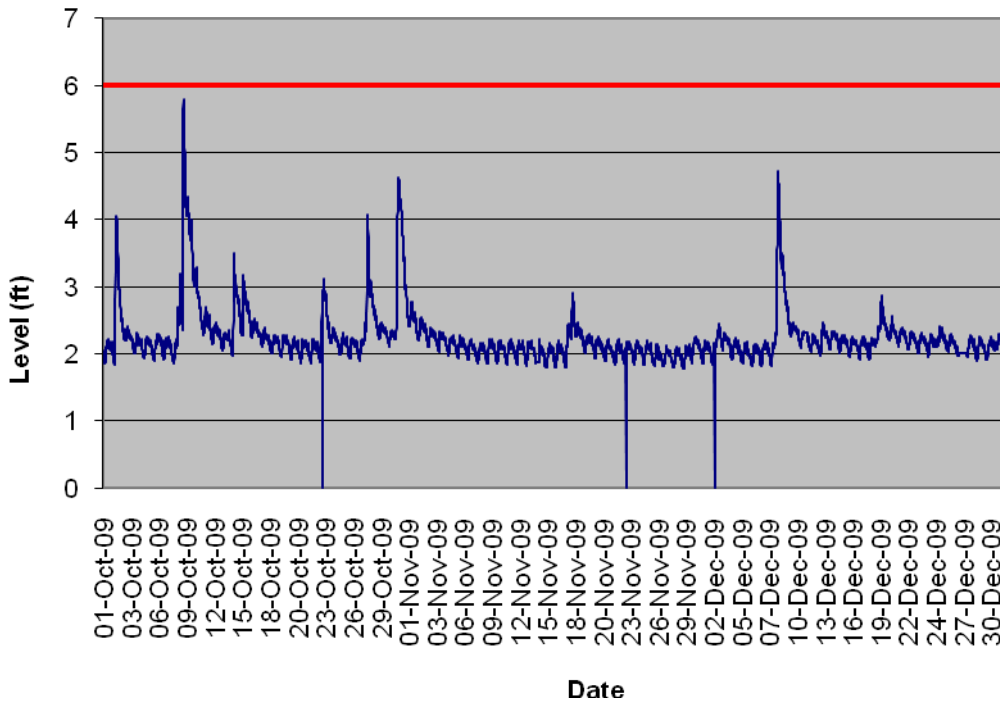
MSD submitted a Jeffersontown WQTC Process Control Program on October 31, 2008, as required by paragraph 26.a of the Amended Consent Decree. MSD received comments on December 12, 2008, and resubmitted the plan January 16, 2009, and again on February 20, 2009. MSD received conditional approval of this 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.

- Reported blending events at the Jeffersontown WQTC during this period on October 2, October 9, October 27, October 31 and December 8, 2009. The total blended amount, from all events, reported and documented on the Project WIN webpage was 3,077,842 gallons.



- Conducted one inspection route for the Jeffersontown siphon during this reporting period on October 9, 2009. No overflows were identified during these inspections.
- Jeffersontown Siphon Access Road (Budget ID # H08400) – Installed an access road for the Jeffersontown siphon. This project was developed to provide a paved access road up to the siphon structure for cleaning and maintenance with our equipment. The asphalt road was installed in an existing easement under a small purchase contract and was constructed in the first 2 weeks of December, 2009.
- See Section 6.5.1 for an update on the CPE/CCE projects for the Jeffersontown WQTC.

### Jeffersontown Siphon Level



#### 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.

- Initiate the contract to amend the North County Action Plan Update by June 30, 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

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, in October 2008. 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

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

- Prospect Phosphorus Removal – Solicited bids for alternative methods of delivery of the sodium aluminate to the Prospect WQTCs. 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. Bids were received in December 2009 for the service to supply and deliver the drums to each of the sites, at a lower per pound rate than currently being paid. Price quotes have also been obtained for a new spill containment system with provisions for freeze protection. In the next reporting period, MSD expects to award the chemical supply and delivery contract, purchase spill containment systems and equipment to prevent freezing of the chemical solution, for all of the sites except Ken Carla. 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.
- Included the phosphorus monitoring data for the five WQTCs, including the calculation of monthly averages, in **Appendix G**.

#### 6.3 Other Small Water Quality Treatment Center Updates

##### 6.3.1 Starview Water Quality Treatment Center

- Rehabilitated and installed an existing 80 KW generator (from the eliminated Polo Fields site) at the Starview WQTC. Poured a new generator pad and completed all electrical site modifications. Installed, tested, and accepted the generator in November.

##### 6.3.2 Chenoweth Hills Water Quality Treatment Center

- Rehabilitated and installed an existing 250 KW generator (from the eliminated Freeway Reserve Pump Station site) at the Chenoweth Hills WQTC. Poured a new generator

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pad and completed all electrical site modifications. Installed, tested, and accepted the generator in November.

## **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 [www.msdlouky.org/projectwin](http://www.msdlouky.org/projectwin) in the section labeled Wastewater Treatment Plant Reports.

- Continued to work towards the creation of electronically generated DMRs. This requires coordination with the State, 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 generation of DMRs is February 2010 for the January DMRs.

## **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**

- Completed an SOP for operation of the Plant No. 1 aeration basins in parallel flow (rather than sequential plug flow as operated now) in the current reporting period. Complete a review of the SOP and train the Jeffersontown WQTC staff on this SOP during the next reporting period. Begin an evaluation of the effectiveness of the SOP during the next reporting period, after the staff have been trained and the SOP implemented.
- Added facilities to allow addition of sodium aluminate to the raw sewage to the existing screenings building. Determined it was easier and more effective to move the chemical feed function even though the CPE recommended extending chemical feed lines from the existing sodium aluminate feed system. Completed construction and put into operation during December, 2009.
- Completed the extension the walls of the Plant No. 1 west aeration basin, using in-house forces, before the end of December, 2009. This work was scheduled for completion by June 2010.
- Started the structure and equipment condition assessment during the current reporting period. Continue assessment through the next reporting period as part of the process to convert asset management activities from SAP to Hansen.

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#### 6.5.2 Lake Forest Water Quality Treatment Center

- Developed an operations SOP prior to the CPE scheduled date of November 30, 2009. Start training staff on this SOP during the next reporting period.

#### 6.5.3 Cedar Creek Water Quality Treatment Center

- Drafted and transmitted for MSD review a computerized process control program on September 23, 2009. Finalized the process control program and trained staff on the use of this program during the current reporting period.

#### 6.5.4 Hite Creek Water Quality Treatment Center

- Drafted a computerized process control program for MSD review during the current reporting period. Train staff on this program during the next reporting period.

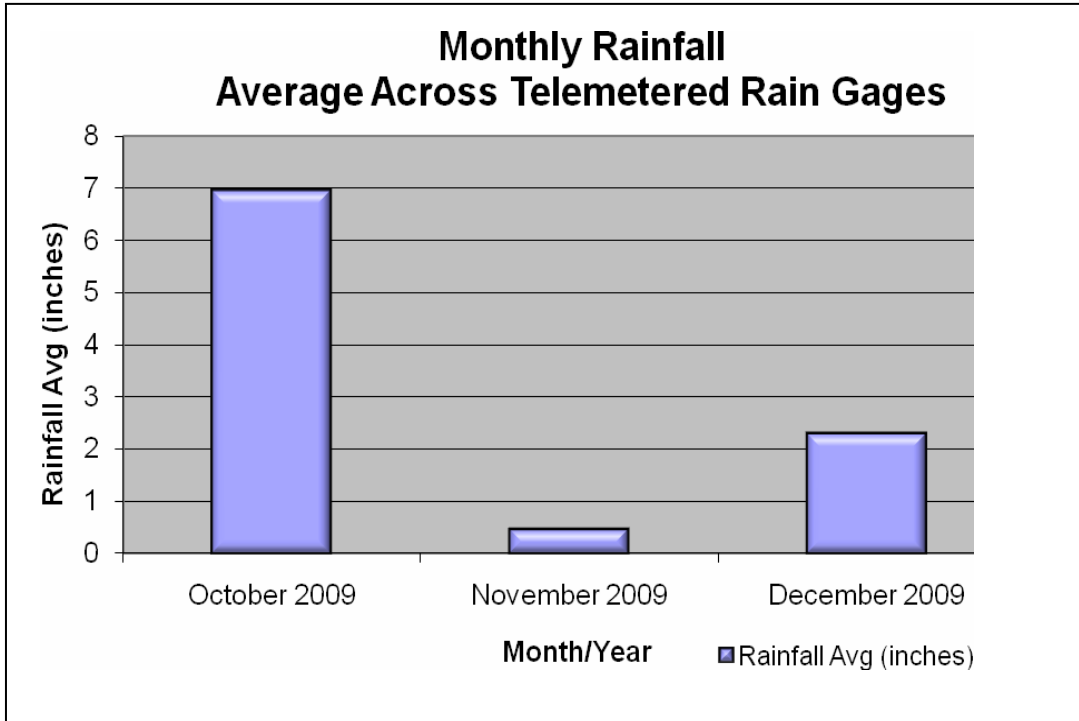
#### 6.5.5 Timberlake Water Quality Treatment Center

- Completed a SOP for operating this WQTC during this reporting period. Train staff on this SOP during the next reporting period.
- Worked with Metro Operations to develop a plan to replace the existing splitter box. Gave preliminary design requirements to a steel fabricating company in December 2009. Initiate replacement of the flow splitter box during the next reporting period. Continue to work with the fabricator to complete a “turn-key” project to replace the existing splitter box. Schedule to replace the splitter box by the end of April, 2010.
- 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.

**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 Gauges.



**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 52 unauthorized discharges this reporting period. 12 were reported during dry weather and 40 were wet weather related.

Performed and analysis of the 12 dry weather unauthorized discharges:

- One (mechanical) occurred at a pump station.
- Two occurred at treatment plants (bypass).

- Seven occurred at CSOs due to mechanical failures (3), electrical problems (1), power related issues (1), and damage caused by another utility (2).
- Two occurred at manholes due to grease and an obstruction.

Performed an analysis of the 40 wet weather unauthorized discharges:

- 10 were pumped overflows
- 5 were blending events at Jeffersontown WQTC
- 4 were bypass events at various WQTCs
- 21 were system capacity issues at MHs

### 7.2.1 Bypass Events at Water Quality Treatment Centers

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

- Cedar Creek (MSD0289) - KPDES Permit Number KY0098540 (2)
- Derek R. Guthrie (MSD0277) - KPDES Permit Number KY0078956
- Chenoweth Hills (MSD0263) – KPDES Number KY0029459 (2)
- Starview (MSD0247) – KPDES Number KY0031712

### 7.2.2 Blending Events

Included in **Appendix B-3** is a report that lists the details from the five blending events that occurred at the Jeffersontown WQTC during this quarter.

- Started blending on October 2, October 9, October 27, October 31, and December 8, 2009. The total blended amount, from all events, reported and documented on the Project WIN webpage was 3,077,842 gallons.

### 7.2.3 Dry Weather CSOS

Documented during this reporting period seven Dry Weather overflows from a permitted CSO location. A dry weather overflow occurred at CSO018 on October 1, 2009, due to an electrical failure of a control panel. A dry weather overflow occurred on November 1, 2009, at CSO020 because of a power failure. Dry weather overflows occurred on November 11, 2009, and November 12, 2009, at CSO210. Both of these occurrences were related to the mechanical failure of the diversion gate. A dry weather overflow also occurred on November 11, 2009, at CSO016 because of the mechanical failure of the diversion gate. On December 8, 2009, a dry weather overflow occurred at CSO132 and on December 21, 2009, a dry weather overflow occurred at CSO022. Both of these overflows were due to water main breaks. At this time, all repairs have been made and CSOs are functioning properly.

### 7.3 Overflows to Ground

Recorded information related to overflows to the ground that did not reach waters of the United



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States for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows will be included in the Annual Report for the period of July 1, 2009, through June 30, 2010.

#### 7.4 Overflows to Interior

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, 2009, through June 30, 2010.

#### 7.5 CSO Reductions

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

Identified through the new InfoWorks model 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 have been fitted with appropriate monitoring equipment and identical Telog equipment as the long term sewer network monitors and are reporting to the new flow data site.

Completed, in this reporting period, one project that impacted permitted CSOs.

- Closed CSO156 on October 30, 2009.

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

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

- Tested batteries before installation. Inspected CSO flow monitoring sites every three weeks. Replaced batteries every 90 days or when the voltage falls below four.
- Tested 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 the specified levels needed to operate or a CSO discharges. Continue work on this effort.
- Completed the rehabilitation project to eliminate the infiltration at CSO108 on April 30, 2009. Changed pump programming to route any residual groundwater into the relief sewer rather than the overflow line to the stream.
- Enter the unit and influent interceptors to investigate additional sources of I&I. Create a rehabilitation project to address the source of I&I if any is found during the investigation.

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## 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:

- Ashburton Pump Station Improvements and Diversion (Budget ID A09092) – Installed a larger force main to accommodate flow from the pump station on November 19, 2009. Additional problems with an adjacent water main delayed the project completion until December 30, 2009.
- Waycross Way Pump Station Elimination (Budget ID C09062) – Diverted flow from the pump station on December 28, 2009. Final construction completion is scheduled for February 26, 2010.

## 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

Activity ID	Activity Name	Schedule %	October 2009				November 2009				December 2009				January 2010				February 2010				March 2010				April 2010			
			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04	
<b>34th STREET FPS DWO ELIMINATION</b>																														
H084784500	34TH ST FPS DWO ELIMINATION - AWARD	0%																												
H084784050	34TH ST FPS DWO ELIMINATION - BID OPEN	0%																												
H084784000	34TH ST FPS DWO ELIMINATION - AD DATE	0%																												
H084782904	34TH ST FPS DWO ELIM DESIGN FEES 100%	0%																												
H084782903	34TH ST FPS DWO ELIM DESIGN FEES 95%	0%																												
H084782902	34TH ST FPS DWO ELIM DESIGN FEES 80%	0%																												
H084782901	34TH ST FPS DWO ELIM DESIGN FEES 50%	100%																												
H084782001	34TH ST FPS DWO ELIMINATION - NTP	100%																												
<b>4th STREET FPS DWO ELIMINATION</b>																														
H084774500	4TH ST FPS DWO ELIMINATION - AWARD	0%																												
H084774050	4TH ST FPS DWO ELIMINATION-BID OPEN	0%																												
H084774000	4TH ST FPS DWO ELIMINATION - AD DATE	0%																												
H084772907	4TH ST FPS DWO ELIM - FINAL DESIGN SUBMITTAL 100%	0%																												
H084772906	4TH ST FPS DWO ELIM - FINAL DESIGN SUBMITTAL 90%	0%																												
H084772905	4TH ST FPS DWO ELIM - FINAL DESIGN SUBMITTAL 80%	0%																												
H084772904	4TH ST FPS DWO ELIM - FINAL DESIGN SUBMITTAL 50%	100%																												
H084772903	4TH ST FPS DWO ELIMINATION - FINAL TM	100%																												
H084772902	4TH ST FPS DWO ELIMINATION - DRAFT TM	100%																												
H084772901	4TH ST FPS DWO ELIMINATION - DATA COLLECTION	100%																												
H084772001	4TH ST FPS DWO ELIMINATION - NTP	100%																												
<b>ASHBURTON PS IMPROVEMENTS/DIVERSION</b>																														
A090928050	ASHBURTON PS IMPROVEMENTS/DIVERSION - CD CERTIFY	0%																												
A090926950	ASHBURTON PS IMPROVEMENTS/DIVERSION - AS-BUILTS	0%																												
A090926000	ASHBURTON PS IMPROVEMENTS/DIVERSION - CONSTRUCT	100%																												
A090924500	ASHBURTON PS IMPROVEMENTS/DIVERSION - AWARD	100%																												
A090924050	ASHBURTON PS IMPROVEMENTS/DIVERSION - BID OPEN	100%																												
A090924000	ASHBURTON PS IMPROVEMENTS/DIVERSION - AD DATE	100%																												
A090922000	ASHBURTON PS IMPROVEMENTS/DIVERSION - DESIGN	100%																												
<b>AVANTI PUMP STATION ELIMINATION</b>																														
A090908050	AVANTI PUMP STATION ELIMINATION - CD CERTIFY	0%																												
A090906950	AVANTI PUMP STATION ELIMINATION - AS BUILTS	0%																												
A090906000	AVANTI PUMP STATION ELIMINATION - CONSTRUCTION	100%																												
A090904500	AVANTI PUMP STATION ELIMINATION - AWARD	0%																												
A090904050	AVANTI PUMP STATION ELIMINATION - BID OPEN	0%																												
A090904000	AVANTI PUMP STATION ELIMINATION - AD DATE	100%																												
A090902000	AVANTI PUMP STATION ELIMINATION - DESIGN	100%																												
<b>BEARGRASS INTERCEPTOR REHABILITATION PH II</b>																														
H092399000	BEARGRASS INTERCEPTOR REHAB PH II - FORCE ACCOU...	30.22%																												
H092392000	BEARGRASS INTERCEPTOR REHAB PH II - DESIGN	81.82%																												
<b>BEECHWOOD VILLAGE SS REPL - EAST PORTION</b>																														
E072616900	BEECHWOOD VILLAGE SS REPL EAST-SUBST COMPLETE	0%																												
E072616000	BEECHWOOD VILLAGE SS REPL EAST - CONSTRUCTION	22.45%																												
E072614500	BEECHWOOD VILLAGE SS REPL EAST - AWARD	100%																												
E072614050	BEECHWOOD VILLAGE SS REPL EAST - BID OPEN	100%																												
E072614000	BEECHWOOD VILLAGE SS REPL EAST - AD DATE	100%																												

█ Remaining Level of Effort   
 █ Remaining Work   
 █ Actual Work   
 █ Critical Remaining Work   
 ◆ Milestone

Activity ID	Activity Name	Schedule %	October 2009				November 2009				December 2009				January 2010				February 2010				March 2010				April 2010			
			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04	
E072613000	BEECHWOOD VILLAGE SS REPL EAST - EASEMENT	100%																												
E072612915	BEECHWOOD VILLAGE SS EAST-95% PLAN SUBMITTAL	100%																												
E072612914	BEECHWOOD VILLAGE SS EAST-COORD W/VENHOFF	100%																												
E072612913	BEECHWOOD VILLAGE SS EAST-C&R'S	100%																												
E072612912	BEECHWOOD VILLAGE SS EAST-RESIDENTIAL PHOTOS	100%																												
E072612911	BEECHWOOD VILLAGE SS EAST-PSC CONNECTION DWGS	100%																												
E072612910	BEECHWOOD VILLAGE SS EAST-RES REQ FOR SPEC	100%																												
E072612909	BEECHWOOD VILLAGE SS EAST-PREPARE LTRS TO PO'S	100%																												
E072612908	BEECHWOOD VILLAGE SS EAST-HOUSE SURVEYS	100%																												
E072612907	BEECHWOOD VILLAGE SS EAST-100% PLAN SUBMITTAL	100%																												
E072612906	BEECHWOOD VILLAGE SS EAST -80% PLAN SUBMITTAL	100%																												
E072612905	BEECHWOOD VILLAGE SS EAST -50% PLAN SUBMITTAL	100%																												
E072612904	BEECHWOOD VILLAGE SS EAST -100% SEWER SURVEY	100%																												
E072612903	BEECHWOOD VILLAGE SS EAST -30% PLAN SUBMITTAL	100%																												
E072612902	BEECHWOOD VILLAGE SS EAST-50% SURVEY/PVMTCORE	100%																												
E072612901	BEECHWOOD VILLAGE SS EAST - PUBLIC MTGS	100%																												
E072612001	BEECHWOOD VILLAGE SS REPL EAST - NTP	100%																												
<b>BEECHWOOD VILLAGE SS REPL - WEST PORTION</b>																														
E080346000	BEECHWOOD VILLAGE SS REPL WEST - CONSTRUCTION	28.02%	BEECHWOOD VILLAGE SS REPL WEST - CONSTRUCTION																											
E080344500	BEECHWOOD VILLAGE SS REPL WEST - AWARD	100%																												
E080344050	BEECHWOOD VILLAGE SS REPL WEST - BID OPEN	100%																												
E080344000	BEECHWOOD VILLAGE SS REPL WEST - AD DATE	100%																												
<b>BUECHEL SURGE BASIN</b>																														
H072883000	BUECHEL SURGE BASIN - EASEMENTS	100%																												
H072882000	BUECHEL SURGE BASIN - DESIGN	0%	BUECHEL SURGE BASIN - DESIGN																											
<b>CAMP TAYLOR #1 - SSES</b>																														
H092019000	CAMP TAYLOR #1 SSES - FORCE ACCOUNT	0%	CAMP TAYLOR #1 SSES - FORCE ACCOUNT																											
H092012000	CAMP TAYLOR #1 SSES - DESIGN	0%	CAMP TAYLOR #1 SSES - DESIGN																											
<b>CAMP TAYLOR #2 - REPLACE SEWERS</b>																														
H092209000	CAMP TAYLOR #2 REPLACE SEWERS - FORCE ACCOUNT	0%	CAMP TAYLOR #2 REPLACE SEWERS - FORCE ACCOUNT																											
H092202000	CAMP TAYLOR #2 REPLACE SEWERS - DESIGN	0%	CAMP TAYLOR #2 REPLACE SEWERS - DESIGN																											
<b>CENTRAL REGION EMERGENCY GENERATOR PHASE III</b>																														
H100836000	CENTRAL REGION EMERG GENERATOR PH3-CONST	43.33%	CENTRAL REGION EMERG GENERATOR PH3-CONST																											
H100834500	CENTRAL REGION EMERG GENERATOR PH3 - AWARD	0%	◆ CENTRAL REGION EMERG GENERATOR PH3 - AWARD																											
H100834050	CENTRAL REGION EMERG GENERATOR PH3 - BID OPEN	0%	CENTRAL REGION EMERG GENERATOR PH3 - BID OPEN																											
H100834000	CENTRAL REGION EMERG GENERATOR PH3 - AD DATE	100%	CENTRAL REGION EMERG GENERATOR PH3 - AD DATE																											
<b>CHARLESWOOD SUBDIVISION INT. #23</b>																														
C941034000	CHARLESWOOD SUBD. INT. #23 - AD DATE	0%	◆ CHARLESWOOD SUBD. INT. #23 - AD DATE																											
C941033000	CHARLESWOOD SUBD. INT. #23 - EASEMENTS	100%																												
C941032917	CHARLESWOOD # 23 -100% DESIGN COOPER C WIDENING	100%																												
C941032916	CHARLESWOOD # 23 -90% DESIGN COOPER C WIDENING	100%																												
C941032915	CHARLESWOOD # 23 -75% DESIGN COOPER C WIDENING	100%																												
C941032914	CHARLESWOOD # 23 -50% DESIGN COOPER C WIDENING	100%																												
C941032913	CHARLESWOOD # 23 -25% DESIGN COOPER C WIDENING	100%																												
C941032912	CHARLESWOOD # 23 -100% FINAL DESIGN SUBMIT/AMEND	100%																												
C941032911	CHARLESWOOD # 23 95% FINAL DESIGN SUBMIT/AMEND	100%																												

█ Remaining Level of Effort   
 █ Remaining Work   
 █ Actual Work   
 █ Critical Remaining Work   
 ◆ Milestone

Activity ID	Activity Name	Schedule %	October 2009				November 2009				December 2009				January 2010				February 2010				March 2010				April 2010			
			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04	
C941032910	CHARLESWOOD #23 - 80% FINAL DESIGN SUBMIT/AMEND	100%																												
C941032909	50% FINAL DESIGN SUBMITTAL/AMEND	100%																												
C941032908	SURVEY COMPLETE/AMEND	100%																												
C941032907	CHARLESWOOD #23 - 100% FINAL DESIGN SUBMITTAL	100%																												
C941032906	CHARLESWOOD #23 95% FINAL DESIGN SUBMITTAL	100%																												
C941032905	CHARLESWOOD SUBD #23 -80% FINAL DESIGN SUBMITTAL	100%																												
C941032904	50% FINAL DESIGN SUBMITTAL	100%																												
C941032903	SURVEY COMPLETE	100%																												
C941032902	100% PRELIMINARY DESIGN SUBMITTAL	100%																												
C941032901	50% PRELIMINARY DESIGN SUBMITTAL	100%																												
C941032530	CHARLESWOOD SUBD. INT. #23 - 100% FINAL DESIGN	100%																												
C941032520	CHARLESWOOD SUBD. INT. #23 - 95% FINAL DESIGN	100%																												
C941032510	CHARLESWOOD SUBD. INT. #23 - 80% FINAL DESIGN	100%																												
C941032500	CHARLEWOOD SUBD. INT. #23 - 50% FINAL DESIGN	100%																												
C941032110	CHARLESWOOD SUBD. INT. #23 - AMMEND NTP	100%																												
C941032100	CHARLESWOOD SUBD. INT. #23 - SURVEYING	100%																												
C941032040	CHARLESWOOD SUBD. INT. #23 - RED MEETING	100%																												
C941032020	CHARLESWOOD SUBD. INT. #23 - 100% PRELIM. DESIGN	100%																												
C941032010	CHARLESWOOD SUBD. INT. #23 - 50% PRELIM. DESIGN	100%																												
C941032005	CHARLESWOOD SUBD. INT. #23 - NTP	100%																												
C941031000	CHARLESWOOD SUBD. INT. #23 - DESIGN	100%																												
C941030500	CHARLESWOOD SUBD. INT. #23 - CONS. SEL.	100%																												
<b>CONSENT DECREE REPORTING</b>																														
R000001000	CONSENT DECREE REPORTING	41.92%																												
<b>CSO 108 DAM MODIFICATIONS</b>																														
H091289000	CSO 108 DAM MODIFICATIONS - FORCE ACCOUNT	0%																												
H091282000	CSO 108 DAM MODIFICATIONS - DESIGN	0%																												
<b>CSO 206 AREAS 13, 14 &amp; 15</b>																														
I010628050	CSO 206 AREAS 13, 14 & 15 - CD CERTIFICATION	100%																												
I010626950	CSO 206 AREAS 13, 14 & 15 AS-BUILT PLANS	100%																												
I010626900	CSO 206 AREAS 13, 14 & 15 - SUBST COMPLETE	100%																												
I010626000	CSO 206 AREAS 13, 14 & 15 CONSTRUCTION	100%																												
I010624500	CSO 206 AREAS 13, 14 & 15 AWARD	100%																												
I010624050	CSO 206 AREAS 13, 14 & 15 BID OPEN	100%																												
I010624000	CSO 206 AREAS 13, 14 & 15 AD DATE	100%																												
<b>CSO 206 SEWER SEPARATION</b>																														
H091319000	CSO 206 SEWER SEPARATION - FORCE ACCOUNT	16.12%																												
H091312000	CSO 206 SEWER SEPARATION - DESIGN	40.11%																												
<b>DOWNSPOUT DISCONNECT CSO 206</b>																														
I042496900	DOWNSPOUT DISCONNECT CSO 206 P1- SUBST COMPLETE	100%																												
I042496000	DOWNSPOUT DISCONNECT CSO 206 PHASE 1 - CONST	61.78%																												
I042494500	DOWNSPOUT DISCONNECT CSO 206 PHASE 1 - AWARD	100%																												
I042494050	DOWNSPOUT DISCONNECT CSO 206 PHASE 1 - BID OPEN	100%																												
I042494000	DOWNSPOUT DISCONNECT CSO 206 PHASE 1 - AD DATE	100%																												
I042492901	DOWNSPOUT DISCONNECT CSO 206 - CLOSURE STARTUP	100%																												
<b>DRGWQTC: BLOWER PACKAGE</b>																														

CSO 108 DAM MODIFICATIONS - FORCE ACCOUNT  
 CSO 108 DAM MODIFICATIONS - DESIGN

◆ DOWNSPOUT DISCONNECT CSO 206 P1- SUBST COMPLETE

█ Remaining Level of Effort   
 █ Remaining Work   
 ◆ Milestone  
█ Actual Work   
 █ Critical Remaining Work



Activity ID	Activity Name	Schedule %	October 2009				November 2009				December 2009				January 2010				February 2010				March 2010				April 2010			
			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04	
H095622914	DRG: BLOWER REPL - DRAFT INSTALLATION DRAWINGS	0%	DRG: BLOWER REPL - DRAFT INSTALLATION DRAWINGS																											
<b>DRGWQTC: WET WEATHER TREATMENT FACILITY</b>																														
H095613000	DRGWQTC: WET WEATHER TREATMENT FACILITY-ESM'TS	0%	DRGWQTC: WET WEATHER TREATMENT FACILITY-ESM'TS																											
H095612000	DRGWQTC: WET WEATHER TREATMENT FACILITY-DESIGN	0%	DRGWQTC: WET WEATHER TREATMENT FACILITY-DESIGN																											
<b>DRGWQTC: WW FLOW EQUALIZATION &amp; TREATMENT</b>																														
H063022962	DRGWQTC: EQ BASIN EASEMENT ACQUISITION	100%	DRGWQTC: EQ BASIN EASEMENT ACQUISITION																											
H063022960	DRGWQTC: WETLANDS STUDY SITE ASSESSMENT	0%	DRGWQTC: WETLANDS STUDY SITE ASSESSMENT																											
H063022959	DRGWQTC: EQUALIZATION BASIN - DSDC	0%	DRGWQTC: EQUALIZATION BASIN - DSDC																											
H063022957	DRGWQTC: EQUALIZATION BASIN - 100% DESIGN	0%	DRGWQTC: EQUALIZATION BASIN - 100% DESIGN																											
H063022956	DRGWQTC: EQUALIZATION BASIN - MONTHLY REPORT #3	0%	DRGWQTC: EQUALIZATION BASIN - MONTHLY REPORT #3																											
H063022955	DRGWQTC: EQUALIZATION BASIN - 90% DESIGN	0%	DRGWQTC: EQUALIZATION BASIN - 90% DESIGN																											
H063022954	DRGWQTC: EQUALIZATION BASIN - MONTHLY REPORT #2	100%	DRGWQTC: EQUALIZATION BASIN - MONTHLY REPORT #2																											
H063022953	DRGWQTC: EQUALIZATION BASIN - 60% DESIGN	100%	DRGWQTC: EQUALIZATION BASIN - 60% DESIGN																											
H063022952	DRGWQTC: EQUALIZATION BASIN - 30% DESIGN	100%	C: EQUALIZATION BASIN - 30% DESIGN																											
H063022951	DRGWQTC: EQUALIZATION BASIN - FIELD SURVEY	100%	C: EQUALIZATION BASIN - FIELD SURVEY																											
H063022950	DRGWQTC: EQUALIZATION BASIN - MONTHLY REPORT #1	100%																												
H063022945	DRGWQTC: PUMP PKG - 90% DESIGN	100%	DRGWQTC: PUMP PKG - 90% DESIGN																											
H063022944	DRGWQTC: PUMP PKG - COMPLETE 60% SUBMITTAL	100%	DRGWQTC: PUMP PKG - COMPLETE 60% SUBMITTAL																											
H063022943	DRGWQTC: PUMP PKG - STRUCTURAL 60% COMPLETE	100%																												
H063022942	DRGWQTC: PUMP PKG - PROC/MECH 60% COMPLETE	100%																												
H063022941	DRGWQTC: PUMP PKG - CFD FINAL REPORT	100%																												
H063022940	DRGWQTC: PUMP PKG - CFD SET-UP	100%																												
H063022939	DRGWQTC: PUMP PKG-HM-FINAL RPT FOR NEW PS	0%	DRGWQTC: PUMP PKG-HM-FINAL RPT FOR NEW PS																											
H063022938	DRGWQTC: PUMP PKG-HM-FINAL RPT FOR EXISTING PS	100%	DRGWQTC: PUMP PKG-HM-FINAL RPT FOR EXISTING PS																											
H063022937	DRGWQTC: PUMP PKG-HM-TEST'G COMP FOR NEW PS	100%	G COMP FOR NEW PS																											
H063022936	DRGWQTC: PUMP PKG-HM-TEST'G COMP FOR EXIST'G PS	100%																												
H063022935	DRGWQTC: PUMP PKG - HM - NTP FOR NEW PS	100%																												
H063022934	DRGWQTC: PUMP PKG - HM - NTP FOR EXISTING PS HYD	100%																												
H063022933	DRGWQTC: PUMP PKG - EQUIPMENT PREPURCHASE	0%	DRGWQTC: PUMP PKG - EQUIPMENT PR																											
H063022932	DRGWQTC: PUMP PKG - PRELIM ENGINEERING UPDATES	100%																												
H063022930	DRGWQTC: PUMP PKG - SITE SURVEY	100%																												
H063022929	DRGWQTC: PUMP PKG - SUBSURFACE INVESTIGATION	100%																												
H063022928	DRGWQTC: PUMP PKG - PROJECT MANAGEMENT	0%	DRGWQTC: PUMP PKG - PROJECT MANAGEMENT																											
H063022925	DRGWQTC: WET WEATHER TRMT FAC-100% SUBMITTAL	0%	DRGWQTC: WET WEATH																											
H063022924	DRGWQTC: WET WEATHER TRMT FAC-90% SUBMITTAL	100%	DRGWQTC: WET WEATHER TRMT FAC-90% SUBMITTAL																											
H063022923	DRGWQTC: WET WEATHER TRMT FAC-KDOW COMMENT ...	100%	DRGWQTC: WET WEATHER TRMT FAC-KDOW COMMENT RESP																											
H063022922	DRGWQTC: WET WEATHER TRMT FAC-PROGRESS RPT 7	100%	RPT 7																											
H063022921	DRGWQTC: WET WEATHER TRMT FAC-PROGRESS RPT 6	100%																												
H063022920	DRGWQTC: WET WEATHER TRMT FAC-KDOW SUBMITTAL	100%																												
H063022919	DRGWQTC: WET WEATHER TRMT FAC-60% SUBMITTAL	100%																												
H063022918	DRGWQTC: WET WEATHER TRMT FAC-PROGRESS RPT 3	100%																												
H063022917	DRGWQTC: WET WEATHER TRMT FAC-OPS STRATEGY TM	100%																												
H063022916	DRGWQTC: WET WEATHER TRMT FAC-GEOTECH	100%																												
H063022913	DRG: BLOWER REPL - FINAL SPECIFICATIONS	100%																												
H063022912	DRG: BLOWER REPL - DRAFT SPECIFICATIONS	100%																												
H063022910	WCWTP: WW FLOW EQ & TREATMENT - FINAL REPORT	100%																												
H063022909	WCWTP: WW FLOW EQ & TREATMENT - TM PD EVALUATI...	100%																												

█ Remaining Level of Effort   
 █ Remaining Work   
 █ Actual Work   
 █ Critical Remaining Work   
 ▶ Milestone

Activity ID	Activity Name	Schedule %	October 2009				November 2009				December 2009				January 2010				February 2010				March 2010				April 2010				
			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04		
H063022908	WCWTP: WW FLOW EQ & TREATMENT - TM COST ESTIMA...	100%																													
H063022907	WCWTP: WW FLOW EQ & TREATMENT - TM SITE ASSM'T	100%																													
H063022906	WCWTP: WW FLOW EQ & TREATMENT - TM SELECTED AL...	100%																													
H063022905	WCWTP: WW FLOW EQ & TREATMENT-100% PROCESS AL...	100%																													
H063022904	WCWTP: WW FLOW EQ & TREATMENT - TM FLOWS & LOA...	100%																													
H063022903	WCWTP: WW FLOW EQ & TREATMENT - TM REGS & PERMIT	100%																													
H063022901	WCWTP: WW FLOW EQ & TREATMENT - KICK OFF MTG	100%																													
H063022001	DRGWQTC: WET WEATHER TRMT FAC-NTP	100%																													
H063022000	WCWTP: WW FLOW EQ & TREATMENT - DESIGN	100%																													
H063021001	WCWTP: WW FLOW EQ & TREATMENT - NTP	100%																													
<b>EAST REGION EMERGENCY GENERATOR PHASE III</b>																															
H100826000	EAST REGION EMERG GENERATORS PH3-CONST	50%																													
H100824500	EAST REGION EMERG GENERATORS PH3 - AWARD	0%																													
H100824050	EAST REGION EMERG GENERATORS PH3 - BID OPEN	0%																													
H100824000	EAST REGION EMERG GENERATORS PH3 - AD DATE	100%																													
<b>EAST ROCKFORD LANE PS RELOCATION</b>																															
A090912905	EAST ROCKFORD LN PS RELOC 100% DESIGN	14.26%																													
A090912904	EAST ROCKFORD LN PS RELOC 90% DESIGN	100%																													
A090912903	EAST ROCKFORD LN PS RELOC 60% DESIGN	100%																													
A090912902	EAST ROCKFORD LN PS RELOC 30% DESIGN	100%																													
A090912901	EAST ROCKFORD LN PS RELOC 10% DESIGN	100%																													
A090912000	EAST ROCKFORD LANE PS RELOCATION - DESIGN	100%																													
<b>EDSEL PUMP STATION I&amp;I INVESTIGATION</b>																															
H091979000	EDSEL PUMP STATION I&I INVESTIGATION - FORCE ACCO...	9.74%																													
H091972000	EDSEL PUMP STATION I&I INVESTIGATION - DESIGN	27.42%																													
<b>FLOYDSBURGH ROAD I&amp;I INVESTIGATION &amp; REDUCTION</b>																															
H091729000	FLOYDSBURGH RD I&I INVESTIGATION & REDUCTION - FO...	0%																													
H091722000	FLOYDSBURGH RD I&I INVESTIGATION & REDUCTION - DE...	0%																													
<b>FY07 BGC/OR LTCP</b>																															
I062301000	FY07 BGC/OR LTP - PLANNING	100%																													
<b>FY07 SSOP UPDATE</b>																															
H062282905	FLEET MGMT STUDY-FINAL REPORT	100%																													
H062282904	FLEET MGMT STUDY-SIZING & UTILIZATION	100%																													
H062282903	FLEET MGMT STUDY-EMERGENCY REPAIR	100%																													
H062282902	FLEET MGMT STUDY-ROUTINE MAINTENANCE	100%																													
H062282001	FLEET MGMT STUDY-NTP	100%																													
H062281000	FY07 SSOP UPDATE - PLANNING	100%																													
<b>FY08 BGC/OR LTCP</b>																															
I062311000	FY08 BGC/OR LTP - PLANNING	100%																													
<b>FY08 OUTDOOR CLASSROOM</b>																															
J061371000	FY08 OUTDOOR CLASSROOM - PLANNING	100%																													
<b>FY08 RIPARIAN BUFFERS</b>																															
J061328050	FY08 RIPARIAN BUFFERS - SEP COMPLETION REPORT	100%																													
J061326000	FY08 RIPARIAN BUFFERS - LEXINGTON RD - CONSTRUCT	100%																													
J061324500	FY08 RIPARIAN BUFFERS - LEXINGTON RD - AWARD	100%																													
J061324050	FY08 RIPARIAN BUFFERS - LEXINGTON RD - BID OPEN	100%																													

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■ Critical Remaining Work   
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			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04																				
J061324000	FY08 RIPARIAN BUFFERS - LEXINGTON RD - AD DATE	100%																																															
J061321000	FY08 RIPARIAN BUFFERS - PLANNING	100%																																															
<b>FY08 SSOP UPDATE</b>																																																	
H062298050	FY08 SSOP UPDATE - CD CERTIFICATION	100%																																															
H062291000	FY08 SSOP UPDATE - PLANNING	100%																																															
<b>FY09 BGC/OR LTCP</b>																																																	
I062338050	FY09 BGC/OR LTP - CD CERTIFICATION	100%																																															
I062331000	FY09 BGC/OR LTP - PLANNING	100%																																															
<b>FY09 OUTDOOR CLASSROOM</b>																																																	
J061381000	FY09 OUTDOOR CLASSROOM - PLANNING	100%																																															
<b>FY09 SSOP UPDATE</b>																																																	
H062328050	FY09 SSOP UPDATE - CD CERTIFICATION	100%																																															
H062321000	FY09 SSOP UPDATE - PLANNING	100%																																															
<b>FY10 OUTDOOR CLASSROOM</b>																																																	
J061398050	FY10 OUTDOOR CLASSROOM-SEP COMPLETION RPT	0%																										-SEP COMPLETION RPT																					
J061391000	FY10 OUTDOOR CLASSROOM - PLANNING	100%																																															
<b>GI 12th &amp; JEFFERSON GREEN STREET</b>																																																	
H094331000	GI 12TH & JEFFERSON GREEN STREET - PLANNING	0%																																															
<b>GI 17th &amp; HILL ALLEY</b>																																																	
H094301000	GI 17TH & HILL ALLEY - PLANNING	0%																																															
<b>GI 2nd &amp; BROADWAY PARKING LOT</b>																																																	
H094261000	GI 2ND & BROADWAY PARKING LOT - PLANNING	0%																																															
<b>GI 3rd &amp; ORMSBY BIOSWALE</b>																																																	
H094271000	GI 3RD & ORMSBY BIOSWALE - PLANNING	0%																																															
<b>GI 6th &amp; BROADWAY RAIN GARDEN</b>																																																	
H094291000	GI 6TH & BROADWAY RAIN GARDEN - PLANNING	0%																																															
<b>GI 6th &amp; MUHAMMAD ALI PARKING LOT</b>																																																	
H094281000	GI 6TH & MUHAMMAD ALI PARKING LOT - PLANNING	0%																																															
<b>GI 7th &amp; CEDAR PARKING LOT</b>																																																	
H094251000	GI 7TH & CEDAR PARKING LOT - PLANNING	0%																																															
<b>GI 7th &amp; MARKET ALLEY</b>																																																	
H094311000	GI 7TH & MARKET ALLEY - PLANNING	0%																																															
<b>GI ADD'L RAIN GARDENS PH 1 FY10</b>																																																	
H100396000	GI ADD'L RAIN GARDENS PH 1 FY10 - PLANNING	0%																																															
<b>GI ADD'L RAIN GARDENS PH 2 FY10</b>																																																	
H100406000	GI ADD'L RAIN GARDENS PH 2 FY10 - PLANNING	0%																																															
<b>GI ALLEYS FY09</b>																																																	
H094131000	GI ALLEYS FY09 - PLANNING	0%																																															
<b>GI ALLEYS FY10</b>																																																	
H094181000	GI ALLEYS FY10 - PLANNING	0%																																															
<b>GI CAMPBELL &amp; MAIN ALLEY</b>																																																	
H094321000	GI CAMPBELL & MAIN ALLEY - PLANNING	0%																																															
<b>GI MSD MO BIOSWALE</b>																																																	
H094241000	GI MSD MO BIOSWALE - PLANNING	0%																																															
<b>GI PARKING PUBLIC FY09</b>																																																	

Remaining Level of Effort
  Remaining Work
  Milestone
  Actual Work
  Critical Remaining Work

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			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04	
H094151000	GI PARKING PUBLIC FY09 - PLANNING	0%	GI PARKING PUBLIC FY09 - PLANNING																											
<b>GI PARKING PUBLIC FY10</b>																														
H094221000	GI PARKING PUBLIC FY10 - PLANNING	0%	GI PARKING PUBLIC FY10 - PLANNING																											
<b>GI PUBLIC DRY WELLS FY10</b>																														
H094231000	GI PUBLIC DRY WELLS FY10 - PLANNING	0%	GI PUBLIC DRY WELLS FY10 - PLANNING																											
<b>GI RAIN BARRELS FY10</b>																														
H094191000	GI RAIN BARRELS FY10 - PLANNING	0%	GI RAIN BARRELS FY10 - PLANNING																											
<b>GI RAIN GARDENS FY10</b>																														
H094201000	GI RAIN GARDENS FY10 - PLANNING	0%	GI RAIN GARDENS FY10 - PLANNING																											
<b>GI ROOFS PUBLIC FY09</b>																														
H094111000	GI ROOFS PUBLIC FY09 - PLANNING	0%	GI ROOFS PUBLIC FY09 - PLANNING																											
<b>GI ROOFS PUBLIC FY10</b>																														
H094161000	GI ROOFS PUBLIC FY10 - PLANNING	0%	GI ROOFS PUBLIC FY10 - PLANNING																											
<b>GI STREETS FY09</b>																														
H094121000	GI STREETS FY09 - PLANNING	0%	GI STREETS FY09 - PLANNING																											
<b>GI STREETS FY10</b>																														
H094171000	GI STREETS FY10 - PLANNING	0%	GI STREETS FY10 - PLANNING																											
<b>GI URBAN REFORESTATION FY09</b>																														
H094141000	GI URBAN REFORESTATION FY09 - PLANNING	0%	GI URBAN REFORESTATION FY09 - PLANNING																											
<b>GI URBAN REFORESTATION FY10</b>																														
H094211000	GI URBAN REFORESTATION FY10 - PLANNING	0%	GI URBAN REFORESTATION FY10 - PLANNING																											
<b>GOLDSMITH INTERCEPTOR IMPROVEMENTS</b>																														
H072968050	GOLDSMITH INTERCEPTOR IMPROVEMENTS - CD CERTIFY	100%																												
H072966990	GOLDSMITH INTERCEPTOR IMPROVEMENTS - WARRANTY	0%	◆ GOLDSMITH INTERCEPTOR IMPROVEMENTS - WARRANTY																											
H072966950	GOLDSMITH INTERCEPTOR IMPROVEMENTS - AS-BUILTS	100%																												
H072966900	GOLDSMITH INTERCEPTOR IMPR - SUBST COMPLETE	100%																												
H072966000	GOLDSMITH INTERCEPTOR IMPROVEMENTS - CONSTRUCT	100%																												
H072964500	GOLDSMITH INTERCEPTOR IMPROVEMENTS - AWARD	100%																												
H072964050	GOLDSMITH INTERCEPTOR IMPROVEMENTS - BID OPEN	100%																												
H072964000	GOLDSMITH INTERCEPTOR IMPROVEMENTS - AD DATE	100%																												
H072962800	GOLDSMITH INTERCEPTOR IMP - PUBLIC NOTIFICATION	100%																												
H072962000	GOLDSMITH INTERCEPTOR IMPROVEMENTS - DESIGN	100%																												
<b>GOVERNMENT CENTER PUMP STATION WET WEATHER STORAGE BASIN</b>																														
H091949000	GOVERNMENT CENTER PS WW STORAGE - FORCE ACCO...	0%	GOVERNMENT CENTER PS WW STORAGE - FORCE ACCOUNT																											
H091944050	GOVERNMENT CENTER PS WW STORAGE - BID OPEN	0%																												
H091944000	GOVERNMENT CENTER PS WW STORAGE - AD DATE	0%	◆ GOVERNMENT CENTER PS WW STORAGE - AD DATE																											
H091943000	GOVERNMENT CENTER PS WW STORAGE - EASEMENT	0%	◆ GOVERNMENT CENTER PS WW STORAGE - EASEMENT																											
H091942000	GOVERNMENT CENTER PS WW STORAGE - DESIGN	0%	GOVERNMENT CENTER PS WW STORAGE - DESIGN																											
<b>HARRODS CREEK INT PHASE II</b>																														
D002492907	HARRODS CRK INT PH II - EASEMENT PLATS	100%																												
D002492906	HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS	0%	HARRODS CRK INT PH II - UPDATE & FINALIZE PLANS																											
<b>HARRODS CREEK PS &amp; FM</b>																														
D942062925	HC/PROSPECT AREA STUDY-TASK 4.4	0%	HC/PROSPECT AREA STUDY-TASK 4.4																											
D942062924	HC/PROSPECT AREA STUDY-TASK 4.1-4.3	100%	HC/PROSPECT AREA STUDY-TASK 4.1-4.3																											
D942062923	HC/PROSPECT AREA STUDY-TASK 3.3	100%	HC/PROSPECT AREA STUDY-TASK 3.3																											



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			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04	
D942062922	HC/PROSPECT AREA STUDY-TASK 3.1-3.2	100%	TASK 3.1-3.2																											
D942062921	HC/PROSPECT AREA STUDY-TASK 2.3-2.4	100%																												
D942062920	HC/PROSPECT AREA STUDY-TASK 2.2	100%																												
D942062919	HC/PROSPECT AREA STUDY-TASK 2.1	100%																												
D942062918	HC/PROSPECT AREA STUDY-TASK 1.1 & 2.1	100%																												
<b>HIKES POINT INTERCEPTOR</b>																														
H072863000	HIKES POINT INTERCEPTOR - EASEMENTS	0%	HIKES POINT INTERCEPTOR - EASEMENTS																											
H072862906	HIKES POINT INTERCEPTOR - 100% DESIGN SUBMITTAL	0%	HIKES POINT INTERCEPTOR - 100% DESIGN SUBMITTAL																											
H072862905	HIKES POINT INTERCEPTOR - 90% DESIGN SUBMITTAL	0%	HIKES POINT INTERCEPTOR - 90% DESIGN SUBMITTAL																											
H072862904	HIKES POINT INTERCEPTOR - 60% DESIGN SUBMITTAL	100%																												
H072862903	HIKES POINT INTERCEPTOR - ENVIRON/SURVEY	100%																												
H072862902	HIKES POINT INTERCEPTOR - 30% DESIGN SUBMITTAL	100%																												
H072862901	HIKES POINT INTERCEPTOR - 10% DESIGN SUBMITTAL	100%																												
H072862001	HIKES POINT INTERCEPTOR - NTP	100%																												
H072862000	HIKES POINT INTERCEPTOR - DESIGN	100%																												
<b>HIKES POINT INTERCEPTOR IMPROVEMENTS</b>																														
H072958050	HIKES POINT AREA SEWER REHAB PH 1 - CD CERTIFY	100%																												
H072956950	HIKES POINT AREA SEWER REHAB PH 1 - AS-BUILTS	100%																												
H072956900	HIKES POINT AREA SEWER REHAB PH 1-SUBST COMPLETE	100%																												
H072956000	HIKES POINT AREA SEWER REHAB PH 1 - CONSTRUCTION	100%																												
H072954500	HIKES POINT AREA SEWER REHAB PH 1 - AWARD	100%																												
H072954050	HIKES POINT AREA SEWER REHAB PH 1 - BID OPEN	100%																												
H072954000	HIKES POINT AREA SEWER REHAB PH 1 - AD DATE	100%																												
H072952800	HIKES POINT AREA SEWER REHAB PH 1 -PUBLIC NOTIFY	100%																												
H072952000	HIKES POINT AREA SEWER REHAB PH 1 - DESIGN	100%																												
<b>HIKES POINT RELIEF EFFORT</b>																														
H072873000	HIKES POINT RELIEF SEWER EFFORT - EASEMENTS	0%	HIKES POINT RELIEF SEWER EFFORT - EASEMENTS																											
H072872910	HP INT REPORT W/PRESENTATION-100%	100%																												
H072872909	HIKES POINT INT - CONSTRUCTABILITY; COST & SCHED	100%																												
H072872908	HIKES POINT INT - TRAFFIC ANALYSIS TECH MEMO	100%																												
H072872907	HIKES POINT INT - HYDRAULIC HOR/VER ALIGN TM	100%																												
H072872906	HIKES POINT INT - STRUCTURAL MEMO & PRELIM DRAWG	100%																												
H072872905	HIKES POINT INT - PIPE MATERIAL RECM & TECH MEMO	100%																												
H072872904	HIKES POINT INT - PROPERTY RESEARCH	100%																												
H072872903	HIKES POINT INT - TRAFFIC ANALYSIS	100%																												
H072872902	HIKES POINT INT - GEOTECH REPORT	100%																												
H072872901	HIKES POINT INT - BACKGROUND & STDS	100%																												
H072872001	HIKES POINT INT - NTP	100%																												
<b>HURSTBOURNE I&amp;I INVEST &amp; REHAB</b>																														
H092192000	HURSTBOURNE I&I INVEST & REHAB - DESIGN	0%	HURSTBOURNE I&I INVEST & REHAB - DESIGN																											
<b>I-64 &amp; GRINSTEAD STORAGE BASIN</b>																														
H091219000	I-64 & GRINSTEAD STORAGE BASIN - FORCE ACCOUNT	0%	I-64 & GRINSTEAD STORAGE BASIN - FORCE ACCOUNT																											
H091212000	I-64 & GRINSTEAD STORAGE BASIN - DESIGN	0%	I-64 & GRINSTEAD STORAGE BASIN - DESIGN																											
<b>INTEGRATION OF SWPS/MDS/MFWTP TO RTC</b>																														
I050568050	INTEGRATION OF SWPS/MDS/MFWTP TO RTC-CD CERTIFY	100%																												
I050566950	INTEGRATION OF SWPS/MDS/MFWTP TO RTC- AS-BUILTS	100%	INTEGRATION OF SWPS/MDS/MFWTP TO RTC- AS-BUILTS																											

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  Milestone



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I050566900	INTEGRATION OF SWPS/MDS/MFWTP TO RTC-SUBST CO...	100%	MFWTP TO RTC-SUBST COMPL																											
I050566000	INTEGRATION OF SWPS/MDS/MFWTP TO RTC-CONSTR.	100%																												
I050564500	INTEGRATION OF SWPS/MDS/MFWTP TO RTC - AWARD	100%																												
I050564050	INTEGRATION OF SWPS/MDS/MFWTP TO RTC - BID OPEN	100%																												
I050564000	INTEGRATION OF SWPS/MDS/MFWTP TO RTC - AD DATE	100%																												
I050562000	INTEGRATION OF SWPS/MDS/MFWTP TO RTC - DESIGN	100%																												
<b>INTEGRATION OF WHEELER BASIN TO RTC</b>																														
I050572000	INTEGRATION OF WHEELER BASIN TO RTC- DESIGN	100%																												
<b>JEFFERSONTOWN TP ELIMINATION</b>																														
H072938050	JEFFERSONTOWN WQTC ELIMINATION - CD CERTIFY	0%	◆ JEFFERSONTOWN WQTC ELIMINATION - CD CERTIFY																											
H072931000	JEFFERSONTOWN TP ELIMINATION - PLANNING	0%	◆ JEFFERSONTOWN TP ELIMINATION - PLANNING																											
<b>KAVANAUGH ROAD PUMP STATION IMPROVEMENT</b>																														
H091719000	KAVANAUGH RD PUMP STATION IMPROVEMENTS - FORC...	0%	KAVANAUGH RD PUMP STATION IMPROVEMENTS - FORCE ACCOUNT																											
H091712000	KAVANAUGH RD PUMP STATION IMPROVEMENTS - DESIGN	0%	KAVANAUGH RD PUMP STATION IMPROVEMENTS - DESIGN																											
<b>LANTANA PUMP STATION WET WEATHER STORAGE BASIN</b>																														
H091939000	LANTANA PUMP STATION WET WEATHER STORAGE - FO...	0%	LANTANA PUMP STATION WET WEATHER STORAGE - FORCE ACCOUNT																											
H091932000	LANTANA PUMP STATION WET WEATHER STORAGE - DE...	0%	LANTANA PUMP STATION WET WEATHER STORAGE - DESIGN																											
<b>LEA ANN WAY PS SYSTEM SSES</b>																														
H090962000	LEA ANN WAY PS SYSTEM SSES - DESIGN	100%																												
<b>LOGAN STREET &amp; BRECKINRIDGE STREET STORAGE BASIN</b>																														
H091422904	LOGAN ST STOR BASIN-PRELIM DESING & PRMT	0%	LOGAN ST STOR BASIN-PRELIM DESING & PRMT																											
H091422903	LOGAN ST STOR BASIN-SITE & TECH SELECT	0%	LOGAN ST STOR BASIN-SITE & TECH SELECT																											
H091422902	LOGAN ST STOR BASIN-INFO COLLECTION	0%	LOGAN ST STOR BASIN-INFO COLLECTION																											
H091422901	LOGAN ST STOR BASIN-BUILD TEAM	0%	LOGAN ST STOR BASIN-BUILD TEAM																											
H091422000	LOGAN ST & BRECKENRIDGE ST STORAGE BASIN - DESIGN	65.93%																												
<b>MELLWOOD PS ELIMINATION &amp; FORCE MAIN</b>																														
A095563000	MELLWOOD PS ELIMINATION & FORCE MAIN - EASEMENTS	0%	MELLWOOD PS ELIMINATION & FORCE MAIN - EASEMENTS																											
A095562904	MELLWOOD PS ELIMINATION & FORCE MAIN 90% DESIGN	0%	MELLWOOD PS ELIMINATION & FORCE MAIN 90% DESIGN																											
A095562903	MELLWOOD PS ELIMINATION & FORCE MAIN 60% DESIGN	0%	MELLWOOD PS ELIMINATION & FORCE MAIN 60% DESIGN																											
A095562902	MELLWOOD PS ELIMINATION & FORCE MAIN 30% DESIGN	0%	MELLWOOD PS ELIMINATION & FORCE MAIN 30% DESIGN																											
A095562901	MELLWOOD PS ELIMINATION & FORCE MAIN 10% DESIGN	0%	MELLWOOD PS ELIMINATION & FORCE MAIN 10% DESIGN																											
A095562000	MELLWOOD PS ELIMINATION & FORCE MAIN - DESIGN	100%																												
<b>MIDDLE FORK SYSTEM IMPROVEMENTS PH.1</b>																														
H042768050	MIDDLE FORK SYS IMP PH.1 - CD CERTIFICATION	100%																												
H042766950	MIDDLE FORK SYS IMP PH.1 - AS-BUILTS	100%																												
H042766900	MIDDLE FORK SYS IMP PH.1 - SUBSTANTIAL COMPLETE	100%																												
H042766000	MIDDLE FORK SYS IMP PH.1 - CONSTRUCTION	100%																												
H042764500	MIDDLE FORK SYS IMP PH.1 - AWARD	100%																												
H042764050	MIDDLE FORK SYS IMP PH.1 - BID OPEN	100%																												
H042764000	MIDDLE FORK SYS IMP PH.1 - AD DATE	100%																												
H042762901	MIDDLE FORK SYS IMP PH.1 - CAPACITY ASSM'T PH.1	100%																												
H042762800	MIDDLE FORK SYS IMP PH.1 - PUBLIC NOTIFICATION	100%																												
H042762001	MIDDLE FORK SYS IMP PH.1 - NTP	100%																												
<b>NORTHERN DITCH INT PHASE 2</b>																														
A092266000	NORTHERN DITCH INT PHASE 2 - CONSTRUCTION	7.11%	NORTHERN DITCH INT PHASE 2 - CONSTRUCTION																											
A092264500	NORTHERN DITCH INT PHASE 2 - AWARD	100%	◆ NORTHERN DITCH INT PHASE 2 - AWARD																											

█ Remaining Level of Effort   
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 ◆ Milestone  
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			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04	
A092264050	NORTHERN DITCH INT PHASE 2 - BID OPEN	100%	EN																											
A092264000	NORTHERN DITCH INT PHASE 2 - AD DATE	100%																												
<b>NORTHERN DITCH INT PHASE 3</b>																														
A095003000	NORTHERN DITCH INT PHASE 3 - EASEMENT	0%	NORTHERN DITCH INT PHASE 3 - EASEMENT																											
<b>NORTHERN DITCH INTERCEPTOR (NR-1A)</b>																														
C850176000	NORTHERN DITCH INTERCEPTOR (NR-1A) - CONSTR.	12.17%																												
C850174500	NORTHERN DITCH INTERCEPTOR (NR-1A) - AWARD	100%																												
C850174050	NORTHERN DITCH INTERCEPTOR (NR-1A) - BID OPEN	100%																												
C850174000	NORTHERN DITCH INTERCEPTOR (NR-1A) - AD DATE	100%																												
C850173050	NORTHERN DITCH INT (NR-1A) - EASEMENTS - 2	100%																												
C850173000	NORTHERN DITCH INTERCEPTOR (NR-1A) - EASEMENTS *	100%																												
C850172924	NO DITCH INT (NR-1A)-BIDDING SERVICES	100%																												
C850172923	NO DITCH INT (NR-1A)-ADD DIVERSION STR TO PLANS	100%																												
C850172922	NO DITCH INT (NR-1A)-PARTITION PLANS INTO 3 PROJ	100%																												
C850172921	NO DITCH FLOW CONTROL STRUCTURE-100% PLANS	100%																												
C850172920	NO DITCH FLOW CONTROL STRUCTURE-90% PLANS	100%																												
C850172919	NO DITCH INT (NR-1A)-100% DESIGN	100%																												
C850172918	NO DITCH INT (NR-1A)-90% DESIGN	100%																												
C850172917	NO DITCH INT (NR-1A)-100% SURVEY	100%																												
C850172916	NO DITCH INT (NR-1A)-TRIB ESMT PLATS/60% DESIGN	100%																												
C850172915	NO DITCH INT (NR-1A)-75% SURVEY	100%																												
C850172914	NO DITCH INT (NR-1A)-50% SURVEY/ND ESMT PLATS	100%																												
C850172913	NO DITCH INT (NR-1A)-30% DESIGN/FINAL GEOTECH	100%																												
C850172912	NO DITCH INT (NR-1A)-25% SURVEY/GWATER/BIOLOGIC	100%																												
C850172911	NORTHERN DITCH INT (NR-1A) - ECO/GEOTECH TESTING	100%																												
C850172910	NORTHERN DITCH INT (NR-1A) - DRILLING/ESA/W'LAND	100%																												
C850172909	NORTHERN DITCH INT (NR-1A) - 10% DESIGN	100%																												
C850172908	NORTHERN DITCH INT (NR-1A) - 100% DESIGN	100%																												
C850172907	NORTHERN DITCH INT (NR-1A) - 95% DESIGN	100%																												
C850172906	NORTHERN DITCH INT (NR-1A) 0 80% & ESMT PLATS	100%																												
C850172905	NORTHERN DITCH INT (NR-1A) - GEOTECH EXPLORATION	100%																												
C850172904	NORTHERN DITCH INT (NR-1A) - 90% SURVEY	100%																												
C850172903	NORTHERN DITCH INT (NR-1A) - 50% & PRELIM REPORT	100%																												
C850172902	NORTHERN DITCH INTERCEPTOR (NR-1A) - 30% DESIGN	100%																												
C850172901	NORTHERN DITCH INTERCEPTOR (NR-1A) - 60% SURVEY	100%																												
C850172090	NORTHERN DITCH INTERC. (NR-1A) - EASEMENT PLATS*	100%																												
C850172080	NORTHERN DITCH INT (NR-1A) - 100% DESIGN	100%																												
C850172070	NORTHERN DITCH INT (NR-1A)- 95% DESIGN	100%																												
C850172060	NORTHERN DITCH INT (NR-1A) - 80% & ESMT PLATS	100%																												
C850172050	NORTHERN DITCH INT (NR-1A) - GEOTECH EXPLORATION	100%																												
C850172040	NORTHERN DITCH INT (NR-1A) - 90% SURVEY	100%																												
C850172030	NORTHERN DITCH INT (NR-1A) - 50% & PRELIM REPORT	100%																												
C850172020	NORTHERN DITCH INTERCEPTOR (NR-1A) - 30% DESIGN	100%																												
C850172010	NORTHERN DITCH INTERCEPTOR (NR-1A) - 60% SURVEY	100%																												
C850171000	NORTHERN DITCH INTERCEPTOR (NR-1A) - PLANNING	100%																												
<b>NORTHERN DITCH INTERCEPTOR IMPROVEMENTS</b>																														
H072988050	NORTHERN DITCH INTERCEPTOR IMPR - CD CERTIFY	100%																												

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H072986990	NORTHERN DITCH INTERCEPTOR IMPR - WARRANTY	0%	▶ NORTHERN DITCH INTERCEPTOR IMPR - WARRANTY																											
H072986950	NORTHERN DITCH INTERCEPTOR IMPR - AS-BUILTS	100%																												
H072986900	NORTHERN DITCH INTERCEPTOR IMPR - SUBST COMPLETE	100%																												
H072986000	NORTHERN DITCH INTERCEPTOR IMPR - CONSTRUCTION	100%																												
H072984500	NORTHERN DITCH INTERCEPTOR IMPR - AWARD	100%																												
H072984050	NORTHERN DITCH INTERCEPTOR IMPR - BID OPEN	100%																												
H072984000	NORTHERN DITCH INTERCEPTOR IMPR - AD DATE	100%																												
H072982800	NORTHERN DITCH INTERCEPTOR IMPR-PUBLIC NOTIFY	100%																												
<b>PADDY'S RUN WW TREATMENT FACILITY</b>																														
H091249000	PADDY'S RUN WW TREATMENT FACILITY - FORCE ACCOU...	0%	PADDY'S RUN WW TREATMENT FACILITY - FORCE ACCOUNT																											
H091242000	PADDY'S RUN WW TREATMENT FACILITY - DESIGN	0%	PADDY'S RUN WW TREATMENT FACILITY - DESIGN																											
<b>PARKVIEW ESTATES I&amp;I INVESTIGATION</b>																														
H091989000	PARKVIEW ESTATES I&I INVESTIGATION - FORCE ACCOUNT	0%	PARKVIEW ESTATES I&I INVESTIGATION - FORCE ACCOUNT																											
H091982000	PARKVIEW ESTATES I&I INVESTIGATION - DESIGN	0%	PARKVIEW ESTATES I&I INVESTIGATION - DESIGN																											
<b>PUBLIC HEALTH SCREENINGS</b>																														
J062488050	PUBLIC HEALTH SCREENINGS - SEP COMPLETION REPORT	100%																												
J062481000	PUBLIC HEALTH SCREENINGS - PLANNING	100%																												
<b>RIVER ROAD INTERCEPTOR</b>																														
D942102907	100% DESIGN	0%	100% DESIGN																											
D942102906	90% DESIGN	100%																												
<b>RTC @ CSO 108 (BG13)</b>																														
I035888050	RTC @ CSO 108 (BG13) - CD CERTIFICATION	100%																												
I035886950	RTC @ CSO 108 (BG13) - AS-BUILT PLANS	100%																												
I035886900	RTC @ CSO 108 (BG13) - SUBST COMPLETE	100%																												
I035886000	RTC @ CSO 108 (BG13) - CONSTR.	100%																												
I035884500	RTC @ CSO 108 (BG13) - AWARD	100%																												
I035884050	RTC @ CSO 108 (BG13) - BID OPEN	100%																												
I035884000	RTC @ CSO 108 (BG13) - AD DATE	100%																												
I035882000	RTC @ CSO 108 (BG13) - DESIGN	100%																												
<b>RTC @ CSO SOUTHWESTERN OUTFALL SWOR2</b>																														
I050558050	RTC @ CSO SOUTHWESTERN OUTFALL SWOR2 -CD CER...	100%																												
I050556950	RTC @ CSO SOUTHWESTERN OUTFALL SWOR2 - AS-BUIL...	100%																												
I050556900	RTC @ CSO SOUTHWESTERN OUTFALL SWOR2-SUBST. C...	100%																												
I050556000	RTC @ CSO SOUTHWESTERN OUTFALL SWOR2 - CONST...	100%																												
I050554500	RTC @ CSO SOUTHWESTERN OUTFALL SWOR2 - AWARD	100%																												
I050554050	RTC @ CSO SOUTHWESTERN OUTFALL SWOR2 - BID OPEN	100%																												
I050554000	RTC @ CSO SOUTHWESTERN OUTFALL SWOR2 - AD DATE	100%																												
I050552911	NEEDS ANALYSIS-RAIN GAUGE COVERAGE STUDY	100%																												
I050552910	DATA FILTER HIKES PT, BUECHEL BR, BEARGRASS INT	100%																												
I050552909	CONTROL STUDY INFLOW NORTHERN DITCH PS	100%																												
I050552908	STUDY FLOOD PROTECTION MODE, CSOFT ADAPTATION	100%																												
I050552000	RTC @ CSO SOUTHWESTERN OUTFALL SWOR2 - DESIGN	100%																												
<b>RTC SYSTEM FORECASTING</b>																														
H084052903	RTC SYSTEM FORECASTING - PROGRAM & DOCUMENTAT...	100%	RTC SYSTEM FORECASTING - PROGRAM & DOCUMENTATION																											
H084052902	RTC SYSTEM FORECASTING - DES MONITORING STATIONS	100%	RTC SYSTEM FORECASTING - DES MONITORING STATIONS																											
<b>RUNNING FOX PUMP STATION ELIMINATION</b>																														

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			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04	
H091789000	RUNNING FOX PUMP STATION ELIMINATION- FORCE ACC...	36.89%																												
H091784050	RUNNING FOX PUMP STATION ELIMINATION - BID OPEN	0%																												
H091784000	RUNNING FOX PUMP STATION ELIMINATION - AD DATE	0%																												
H091782000	RUNNING FOX PUMP STATION ELIMINATION - DESIGN	3.99%																												
<b>SEP - POND CREEK TRAIL STREAM RESTORATION PROJECT</b>																														
H101412000	SEP - PC TRAIL STREAM RESTORATION-DESIGN	0%																												
<b>SHIVELY INTERCEPTOR</b>																														
B062083000	SHIVELY INTERCEPTOR - EASEMENT	0%																												
B062082916	SHIVELY-VAC, EXCAV, GROUNDWATER WELLS	0%																												
B062082911	PERTH CLYDE PREL ENG PLANS/REPORT	100%																												
B062082910	PERTH CLYDE 50% SURVEY	0%																												
B062082909	SHIVELY INT - FINAL DESIGN 100%	100%																												
B062082908	SHIVELY INT - SURVEY 100%	100%																												
B062082907	SHIVELY INT - FINAL DESIGN 80%	100%																												
B062082906	SHIVELY INT - SURVEY 80%	100%																												
B062082905	SHIVELY INT - FINAL DESIGN 50%	100%																												
B062082904	SHIVELY INT - SURVEY 50%	100%																												
B062082903	SHIVELY INT - DESIGN 30%	100%																												
B062082902	SHIVELY INT - SURVEY 20%	100%																												
B062082901	SHIVELY INT - PRELIM ENG 100%	100%																												
B062082001	SHIVELY INTERCEPTOR - NTP	100%																												
<b>SINKING FORK INTERCEPTOR RELIEF SEWER</b>																														
H083578050	SINKING FORK INTERCEPTOR RELIEF SEWER-CD CERTIFY	0%																												
H083576900	SINKING FORK INTERCEPTOR RELIEF SEWER-SUBST COMP	0%																												
H083576000	SINKING FORK INTERCEPTOR RELIEF SEWER - CONSTR	100%																												
H083574500	SINKING FORK INTERCEPTOR RELIEF SEWER - AWARD	100%																												
H083574050	SINKING FORK INTERCEPTOR RELIEF SEWER - BID OPEN	100%																												
H083574000	SINKING FORK INTERCEPTOR RELIEF SEWER - AD DATE	100%																												
H083573000	SINKING FORK INTERCEPTOR RELIEF SEWER - ESM/TS	100%																												
H083572916	SURVEYING MILESTONES - EASEMENTS PLATS	100%																												
H083572915	SURVEYING MILESTONES - SURVEYING	100%																												
H083572914	SINKING FORK INT RS - MYLARS	100%																												
H083572913	SINKING FORK INT RS - CONTRACT DOCS	100%																												
H083572912	SINKING FORK INT RS - 100% PLAN SUBMITTAL	100%																												
H083572911	SINKING FORK INT RS - 80% PLAN SUBMITTAL	100%																												
H083572910	SINKING FORK INT RS - 50% PLAN SUBMITTAL	100%																												
H083572909	SINKING FORK INT RS - EASEMENT APPRAISAL	100%																												
H083572908	BWV - MYLARS	100%																												
H083572907	BWV - CONTRACT DOCS	100%																												
H083572906	BWV - 100% PLAN SUBMITTAL	100%																												
H083572905	BWV - 80% PLAN SUBMITTAL	100%																												
H083572904	BWV - ROCK CORES	100%																												
H083572903	BWV - PLAN & BASEMENT REVISIONS	100%																												
H083572902	SINKING FORK INT RELIEF SEWER-100% PRELIM DESIGN	100%																												
H083572901	SINKING FORK INT RELIEF SEWER- 50% PRELIM DESIGN	100%																												
H083572002	SINKING FORK INTERCEPTOR RELIEF SEWER- NTP FINAL	100%																												
H083572001	SINKING FORK INTERCEPTOR RELIEF SEWER - NTP PREL	100%																												

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<b>SINKING FORK REHAB PHASE 1 (B'WOOD VLG)</b>																														
H072948050	SINKING FORK REHAB PH1(B'WOOD VLG) - CD CERTIFY	100%																												
H072946950	SINKING FORK REHAB PH1(B'WOOD VLG) - AS-BUILTS	100%																												
H072946900	SINKING FORK REHAB PH1(B'WOOD VLG) - SUBST COMP	100%																												
H072946000	SINKING FORK REHAB PH1(B'WOOD VLG) - CONSTR	100%																												
H072944500	SINKING FORK REHAB PH1(B'WOOD VLG) - AWARD	100%																												
H072944050	SINKING FORK REHAB PH1(B'WOOD VLG) - BID OPEN	100%																												
H072944000	SINKING FORK REHAB PH1(B'WOOD VLG) - AD DATE	100%																												
H072942800	SINKING FORK REHAB PH1 (B'WOOD VLG)-PUBL NOTIFY	100%																												
<b>SNEADS BRANCH S&amp;F</b>																														
I050878050	SNEADS BRANCH S&F - CD CERTIFICATION	100%																												
<b>SOLIDS &amp; FLOATABLES @ CSO #146</b>																														
H070266900	SOLIDS & FLOATABLES @ CSO #146- SUBST COMPLETE	100%																												
<b>SOUTHEASTERN INTERCEPTOR RELIEF SEWER</b>																														
H083582912	SEI RELIEF SEWER-100% DIVERSION STRUCT PLANS/BID ...	0%																												
H083582911	SEI RELIEF SEWER-60% SEIRS PLANS/FNL PLANS/BID DOCS	0%																												
H083582910	SEI RELIEF SEWER-90% DIVERSION STRUCT PLANS/BID D...	0%																												
H083582909	SEI RELIEF SEWER-60% DIVERSION STRUC PLANS/BID DO...	0%																												
H083582908	SEI RELIEF SEWER-SUBSURFACE INVEST. REPORT	0%																												
H083582907	SEI RELIEF SEWER-30% SEIRS PLANS/REPORTS	0%																												
H083582906	SEI RELIEF SEWER-30%DIVERSION STRUCTURE PLANS	0%																												
H083582905	SEI RELIEF SEWER-SURVEY &DRAFT PLATS	0%																												
H083582904	SEI RELIEF SEWER - 10% DESIGN	0%																												
H083582903	SEI RELIEF SEWER - PD - FINAL REPORT	100%																												
H083582902	SEI RELIEF SEWER - PD - PHASE 1 5% DRAFT REPORT	100%																												
H083582901	SEI RELIEF SEWER - PD - SUBMIT 10% DRAFT RPT	100%																												
H083582001	SOUTHEASTERN INTERCEPTOR RELIEF SEWER - NTP	100%																												
<b>THURMAN DRIVE PS ELIMINATION</b>																														
B062998050	THURMAN DRIVE PS ELIMINATION - CD CERTIFICATION	100%																												
B062996990	THURMAN DRIVE PS ELIMINATION - WARRANTY	0%																												
B062996950	THURMAN DRIVE PS ELIMINATION - AS-BUILTS	100%																												
B062996900	THURMAN DRIVE PS ELIMINATION - SUBST COMPLETE	100%																												
B062996000	THURMAN DRIVE PS ELIMINATION - CONSTRUCTION	100%																												
B062994500	THURMAN DRIVE PS ELIMINATION - AWARD	100%																												
B062994050	THURMAN DRIVE PS ELIMINATION - BID OPEN	100%																												
B062994000	THURMAN DRIVE PS ELIMINATION - AD DATE	100%																												
B062992906	THURMAN DR PS ELIM - ADD'L ALIGNMENT/SCOPE	100%																												
B062992905	THURMAN DR PS ELIM - JUSTIFICATION MEMO/BID ASST	100%																												
B062992904	THURMAN DR PS ELIM - FINAL DESIGN	100%																												
B062992903	THURMAN DR PS ELIM - PRELIMINARY DESIGN/GMA VOTE	100%																												
B062992902	THURMAN DR PS ELIM - SURVEYING FOR PS ELIM	100%																												
B062992901	THURMAN DR PS ELIM - GMA SUBMITTAL	100%																												
B062992001	THURMAN DR PS ELIM - NOTICE TO PROCEED	100%																												
<b>WEST REGION EMERGENCY GENERATOR PHASE III</b>																														
H100846000	WEST REGION EMERG GENERATORS PH3-CONST	50%																												
H100844500	WEST REGION EMERG GENERATORS PH3 - AWARD	0%																												

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			04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	31	07	14	21	28	07	14	21	28	04	
H100844050	WEST REGION EMERG GENERATORS PH3 - BID OPEN	0%	WEST REGION EMERG GENERATORS PH3 - BID OPEN																											
H100844000	WEST REGION EMERG GENERATORS PH3 - AD DATE	100%	WEST REGION EMERG GENERATORS PH3 - AD DATE																											
<b>WOODLAND HILLS PUMP STATION DIVERSION</b>																														
H091699000	WOODLAND HILLS PUMP STATION DIVERSION - FORCE A...	0%	WOODLAND HILLS PUMP STATION DIVERSION - FORCE ACCOUNT																											
H091694050	WOODLAND HILLS PUMP STATION DIVERSION - BID OPEN	0%																												
H091694000	WOODLAND HILLS PUMP STATION DIVERSION - AD DATE	0%																												
H091693000	WOODLAND HILLS PUMP STATION DIVERSION - EASEMENT	0%	WOODLAND HILLS PUMP STATION DIVERSION - EASEMENT																											
H091692000	WOODLAND HILLS PUMP STATION DIVERSION - DESIGN	0%	WOODLAND HILLS PUMP STATION DIVERSION - DESIGN																											
<b>ZABEL WAY PUMP STATION ELIMINATION</b>																														
C062956950	ZABEL WAY PS ELIMINATION - AS-BUILTS	100%																												
C062956900	ZABEL WAY PS ELIMINATION - SUBSTANTIAL COMPLETE	100%																												

█ Remaining Level of Effort   
 █ Remaining Work   
 ▶ Milestone  
█ Actual Work   
 █ Critical Remaining Work

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





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

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969327	10/09/09 06:30 AM	ELDER	MILLS	DOCUMENTED	03/18/08	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 02:00 PM	

**Spot Inspections:**

Discharge Amount:	56,250 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	SEWAGE & DEBRIS FOUND AROUND THE MANHOLE
Repair:	THIS SITE WAS FOUND DURING RAIN EVENT RECON

**Notifications:**

10/09/09 08:41 AM	DISPUB	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 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 #** KY0031712      **Facility ID** MSD0247      **Water Quality Treatment Center** STARVIEW      **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	MSD0247	423 BERMUDA WAY		CHENOWETH RUN	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	989838	12/08/09 09:53 PM	ELDER	LAMBDIN JR	REPAIRED - ISSUE RESOLVED	12/08/09	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	12/08/09 10:24 PM	

**Spot Inspections:**

Discharge Amount:	2,139 GAL
Cause:	HIGH FLOW DUE TO RAIN EVENT IN AREA
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGN IN PLACE - NO ADDITIONAL CONTROL ZONE SET UP
Impact:	SOME DISCOLORATION OF STREAM
Repair:	TURNED OFF BLOWERS TO SETTLE PLANT

**Notifications:**

12/08/09 10:55 PM	DISPUB	PERMANENT SIGNS POSTED IN AREA
12/08/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/08/09 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 #** KY0025194     
 **Facility ID** MSD0255     
 **Water Quality Treatment 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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	964033	10/02/09 08:36 AM	SINGLETON	STEPHENSON	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	10/02/09 10:40 AM	

**Spot Inspections:**

Peak Plant Flow when Blending:	11,110,000 GPD
Total Plant Flow when Blending:	5,160,000 GAL
Discharge Amount:	34,813 GAL
Cause:	FLOW EXCEEDED PLANT CAPACITY
Clean Up:	NO CLEANUP PERFORMED- PIPE DISCHARGING UNDERWATER
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED- FACILITY UNDER ELEVATED CREEK LEVEL.
Repair:	A SOLUTION FOR THIS LOCATION IS IN THE IOAP

**Notifications:**

10/02/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/02/09 08:36 AM	DISPUB	TEMPORARY SIGNS POSTED
10/02/09 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 #** KY0025194 (Cont'd)      **Facility ID** MSD0255      **Water Quality Treatment Center** JEFFERSONTOWN      **Receiving Stream of Treatment Center** CHENOWETH RUN      **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969277	10/09/09 04:31 AM	ELDER	MILLS	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	10/10/09 01:58 AM	

**Spot Inspections:**

Peal Plant Flow when Blending:	16,855,000 GPD
Total Plant Flow when Blending:	9,090,339 GAL
Discharge Amount:	1,650,306 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGN IN PLACE - NO ADDITIONAL CONTROL ZONE SET UP
Impact:	NO IMPACT OBSERVED - FACILITY UNDER ELEVATED CREEK LEVEL
Repair:	NOGOTATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 12:00 AM	DISPUB	PERMANENT SIGNS POSTED IN AREA
10/09/09 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 #** KY0025194 (Cont'd)     
 **Facility ID** MSD0255     
 **Water Quality Treatment Center** JEFFERSONTOWN     
 **Receiving Stream of Treatment Center** CHENOWETH RUN     
 **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	974557	10/27/09 11:43 PM	ELDER	WRIGHT	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	10/28/09 02:02 AM	

**Spot Inspections:**

Peal Plant Flow when Blending:	11,222,128 GPD
Total Plant Flow when Blending:	9,049,000 GAL
Discharge Amount:	47,447 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	NO CLEAN UP PERFORMED - WATER RECEIVED PRIMARY & UV TREATMENT
Control Zone:	NO CONTROL ZONE WAS SET UP - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NO IMPACT OBSERVED - FLOW RECEIVED PRIMARY & UV TREATMENT
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

10/28/09 12:58 AM	DISPUB	Permanent signs posted in area & <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>
10/27/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/27/09 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 #** KY0025194 (Cont'd)      **Facility ID** MSD0255      **Water Quality Treatment Center** JEFFERSONTOWN      **Receiving Stream of Treatment Center** CHENOWETH RUN      **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	975855	10/31/09 03:27 AM	ELDER	CLARK	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	10/31/09 04:00 PM	

**Spot Inspections:**

Peal Plant Flow when Blending:	14,320,000 GPD
Total Plant Flow when Blending:	8,350,000 GAL
Discharge Amount:	966,634 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGNS IN PLACE. PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.
Impact:	NO IMPACT OBSERVED - FACILITY UNDER ELEVATED CREEK LEVEL
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

10/31/09 08:11 AM	DISPUB	Permanent signs posted in area & <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>
10/31/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/31/09 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





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

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	989835	12/08/09 08:53 PM	ELDER	MILLS	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	12/09/09 02:51 AM	

**Spot Inspections:**

Peal Plant Flow when Blending:	13,410,000 GPD
Total Plant Flow when Blending:	7,360,000 GAL
Discharge Amount:	378,622 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL
Control Zone:	PERMANANT SIGNS, - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NONE OBSERVED - OUTLETS SUBMERGED PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

12/08/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/10/09 06:45 AM	DISPUB	PERMANANT SIGNS POSTED IN AREA & <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>
12/08/09 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

<b>KPDES #</b> KY0029459	<b>Facility ID</b> MSD0263	<b>Water Quality Treatment Center</b> CHENOWETH HILLS	<b>Receiving Stream of Treatment Center</b> CHENOWETH RUN	<b>Region</b> CENT
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0263	4305 ST RENE CT		CHENOWETH RUN	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	967725	10/05/09 03:15 PM	ELDER	WRIGHT	DOCUMENTED	09/27/02	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	10/05/09 05:35 PM	

**Spot Inspections:**

Discharge Amount:	7,953 GAL
Cause:	MECHANICAL, FITTING FAILURE
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	NO CONTROL ZONE WAS SET UP - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NO IMPACT OBSERVED PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Repair:	REMOVED FAILED FITTING & REPLACED. RETURNED TO SERVICE.

**Notifications:**

10/05/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/05/09 12:00 AM	DISPUB	NOTIFICATION WAS MADE THROUGH THE PROJECT wIN WEBSITE AND LISTSERVE.
10/05/09 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

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

**KPDES #** KY0029459 (Cont'd)     
 **Facility ID** MSD0263     
 **Water Quality Treatment Center** CHENOWETH HILLS     
 **Receiving Stream of Treatment Center** CHENOWETH RUN     
 **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	989842	12/08/09 09:50 PM	ELDER	BRAZEL	DOCUMENTED	09/27/02	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	12/09/09 02:40 AM	

**Spot Inspections:**

Discharge Amount:	67,535 GAL
Cause:	RAIN EVENT IN AREA CAUSING SOLIDS TO WASH OUT OF PLANT
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGN IN PLACE - NO ADDITIONAL CONTROL ZONE SET UP
Impact:	NONE OBSERVED - OUTLETS SUBMERGED
Repair:	TURNED BLOWERS OFF TO SETTLE THE PLANT SOLIDS

**Notifications:**

12/08/09 11:06 PM	DISPUB	PERMANENT SIGNS POSTED IN AREA
12/08/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/08/09 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 #** KY0078956      **Facility ID** MSD0277      **Water Quality Treatment Center** DEREK R. GUTHRIE      **Receiving Stream of Treatment Center** OHIO RIVER      **Region** 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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	996579	12/31/09 12:19 AM	MARKS JR	LAMB DIN JR	DOCUMENTED	10/17/06	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	12/31/09 02:29 AM	

**Spot Inspections:**

Discharge Amount:	1,500,000 GAL
Cause:	POWER FAILURE CAUSED BY L G & E
Clean Up:	NO DEBRIS ,ONLY A BYPASS OF DISINFECTION
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	L G & E RESTORED POWER ALL SYSTEMS BACK IN SERVICE

**Notifications:**

12/31/09 12:58 PM	DISPUB	public notified by web site and temporary signs
12/31/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/31/09 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



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

**KPDES #** KY0022411      **Facility ID** MSD0278      **Water Quality Treatment Center** MORRIS FORMAN      **Receiving Stream of Treatment Center** OHIO RIVER      **Region** 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 BEARGRASS CREEK	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969304	10/09/09 05:10 AM	GRIFFITH	GRIFFITH	DOCUMENTED	11/29/01	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 09:05 PM	

**Spot Inspections:**

Discharge Amount:	1,288 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NONE NEEDED-PIPE SUMBERGED
Control Zone:	PERMANENT SIGNS PLACED AROUND DISCHARGE SITE
Impact:	NO IMPACT OBSERVED-PIPE SUBMERGED
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/12/09 10:35 AM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	974577	10/27/09 11:34 PM	GRIFFITH	GRIFFITH	DOCUMENTED	11/29/01	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	10/28/09 12:14 AM	

**Spot Inspections:**

Discharge Amount:	3,078 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NONE NEEDED-PIPE SUBMERGED
Control Zone:	PERMANENT SIGNS PLACED AROUND DISCHARGE SITE
Impact:	NO IMPACT OBSERVED-PIPE SUBMERGED
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/28/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/29/09 02:59 PM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/28/09 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 Treatment Center** MORRIS FORMAN     
 **Receiving Stream of Treatment Center** OHIO RIVER     
 **Region** WEST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	975876	10/31/09 07:29 AM	MITCHELL	GRIFFITH	DOCUMENTED	11/29/01	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/31/09 02:52 PM	

**Spot Inspections:**

Discharge Amount:	223,896 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NONE NEEDED-PIPE SUBMERGED
Control Zone:	PERMANENT SIGNS PLACED AROUND DISCHARGE SITE
Impact:	NO IMPACT OBSERVED-PIPE SUBMERGED
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/31/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
11/04/09 11:10 AM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/31/09 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





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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	104231	4119 LEE AVE		CAMP TAYLOR DITCH	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969396	10/09/09 04:55 AM	MITCHELL	GRIFFITH	DOCUMENTED	10/23/07	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 08:10 AM	

**Spot Inspections:**

Discharge Amount:	108,000 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #969694
Control Zone:	BARRICADES AND TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	SOLIDS AND DEBRIS OBSERVED AROUND DISCHARGED AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 02:32 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	13943	4119 LEE AVE		SOUTH FORK BEARGRASS CREEK	GROUND

Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	969402	10/09/09 04:57 AM	MITCHELL	GRIFFITH	DOCUMENTED	03/19/08	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 08:11 AM	

**Spot Inspections:**

Discharge Amount:	554 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #969683
Control Zone:	TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	SOLIDS AND DEBRIS WERE OBSERVED AT DISCHARGE SITE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 02:10 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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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 BEARGRASS CREEK	DITCH

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969381	10/09/09 04:40 AM	MITCHELL	GRIFFITH	DOCUMENTED	01/24/02	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/11/09 12:01 AM	

**Spot Inspections:**

Discharge Amount:	234,426 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #969901
Control Zone:	NONE NEEDED-DISCHARGE IS UNDERGROUND (DOOR HANGERS WERE PLACED)
Impact:	LIGHT DEBRIS AND SOLIDS OBSERVED AROUND IMPACTED AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 08:58 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	974587	10/28/09 02:50 AM	MITCHELL	GRIFFITH	DOCUMENTED	01/24/02	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	10/28/09 10:45 AM	

**Spot Inspections:**

Discharge Amount:	44,757 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #975101
Control Zone:	NONE NEEDED-PIPE SUBMERGED
Impact:	LIGHT DEBRIS AND SOLIDS OBSERVED AROUND IMPACTED AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/28/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/29/09 02:47 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/28/09 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 Treatment Center** MORRIS FORMAN     
 **Receiving Stream of Treatment Center** OHIO RIVER     
 **Region** WEST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	975877	10/31/09 04:00 AM	MITCHELL	GRIFFITH	DOCUMENTED	01/24/02	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	11/01/09 12:01 AM	

**Spot Inspections:**

Discharge Amount:	133,357 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN W/O #976136
Control Zone:	NONE NEEDED-PIPE SUBMERGED
Impact:	LIGHT DEBRIS AND SOLIDS OBSERVED AROUND DISCHARGED SITE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31,2009

**Notifications:**

10/31/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
11/02/09 11:14 AM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS AND PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/31/09 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

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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	989844	12/08/09 10:10 PM	MITCHELL	GRIFFITH	DOCUMENTED	01/24/02	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	12/09/09 04:50 PM	

**Spot Inspections:**

Discharge Amount:	70,180 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WO #990609
Control Zone:	NONE NEEDED-PIPE SUBMERGED
Impact:	LIGHT DEDRIS AND SOLIDS OBSERVED AROUND DISCHARGED SITE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2009

**Notifications:**

12/08/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/09/09 07:53 AM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS AND DOOR HANGERS AT LOCATION TO AVOID DISCHARGED CONTENT
12/08/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	17571	3035 CARSON WAY		SOUTH FORK BEARGRASS CREEK	CATCH BASIN

Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	969281	10/09/09 05:14 AM	BRIGHT	BRIGHT	DOCUMENTED	02/17/00	PUMPED OVERFLOW	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 02:30 PM	

**Spot Inspections:**

Discharge Amount:	528,200 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

**Notifications:**

10/09/09 06:50 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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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 BEARGRASS CREEK	CATCH BASIN

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969285	10/09/09 05:26 AM	BRIGHT	BRIGHT	DOCUMENTED	02/17/00	PUMPED OVERFLOW	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 07:37 PM	

**Spot Inspections:**

Discharge Amount:	1,067,200 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

**Notifications:**

10/09/09 06:49 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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<b>Facility Type</b>	<b>Facility ID</b>	<b>Facility Address</b>	<b>If Pump Station, Name of Pump Station:</b>	<b>Receiving Stream</b>	<b>Discharge to</b>
SMH Sewer Manhole	18483	3015 BOAIRES LN		SOUTH FORK BEARGRASS CREEK	CATCH BASIN

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969284	10/09/09 05:23 AM	BRIGHT	BRIGHT	DOCUMENTED	02/17/00	PUMPED OVERFLOW	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 02:25 PM	

**Spot Inspections:**

Discharge Amount:	564,300 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

**Notifications:**

10/09/09 06:50 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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<b>Facility Type</b>	<b>Facility ID</b>	<b>Facility Address</b>	<b>If Pump Station, Name of Pump Station:</b>	<b>Receiving Stream</b>	<b>Discharge to</b>
SMH Sewer Manhole	18505	3540 RAMONA AVE		SOUTH FORK BEARGRASS CREEK	CATCH BASIN

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969282	10/09/09 05:31 AM	BRIGHT	BRIGHT	DOCUMENTED	02/17/00	PUMPED OVERFLOW	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 01:05 PM	

**Spot Inspections:**

Discharge Amount:	446,600 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

**Notifications:**

10/09/09 06:49 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 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

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969283	10/09/09 05:18 AM	BRIGHT	BRIGHT	DOCUMENTED	02/17/00	PUMPED OVERFLOW	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 03:22 PM	

**Spot Inspections:**

Discharge Amount:	590,100 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

**Notifications:**

10/09/09 06:50 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 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 Treatment Center** MORRIS FORMAN      **Receiving Stream of Treatment Center** OHIO RIVER      **Region** 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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969278	10/09/09 05:20 AM	BRIGHT	BRIGHT	DOCUMENTED	02/17/00	PUMPED OVERFLOW	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 09:36 AM	

**Spot Inspections:**

Discharge Amount:	272,700 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

**Notifications:**

10/09/09 06:50 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
10/09/09 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, Result: WUS, Act Code: DISDW, DISREV, DISSUS

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969279	10/09/09 05:50 AM	BRIGHT	BRIGHT	DOCUMENTED	02/17/00	PUMPED OVERFLOW	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 10:30 AM	

**Spot Inspections:**

Discharge Amount:	472,100 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

**Notifications:**

10/09/09 06:48 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
10/09/09 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, Result: WUS, Act Code: DISDW, DISREV, DISSUS

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969280	10/09/09 05:40 AM	BRIGHT	BRIGHT	DOCUMENTED	02/17/00	PUMPED OVERFLOW	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 06:01 PM	

**Spot Inspections:**

Discharge Amount:	1,263,500 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

**Notifications:**

10/09/09 06:49 AM	DISPUB	MSD PERSONNEL PLACED SIGNS
10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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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 BEARGRASS CREEK	GROUND

Activity Code / Description	WO #	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
DISREV: RAIN EVENT DISCHARGE	969350	10/09/09 06:32 AM	FIELDS	GRIFFITH	DOCUMENTED	09/02/03	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 09:32 AM	

**Spot Inspections:**

Discharge Amount:	4,200 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #969783
Control Zone:	BARRICADES AND CAUTION TAPE WERE PLACED AROUND IMPACTED AREA
Impact:	LIGHT DEBRIS AND SOLIDS OBSERVED AROUND DISCHARGE SITE
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 07:55 PM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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<b>Facility Type</b> SSL Sewer Service Line	<b>Facility ID</b> 33609	<b>Facility Address</b> 3510 GLADDEN DR	<b>If Pump Station, Name of Pump Station:</b>	<b>Receiving Stream</b> SOUTH FORK BEARGRASS CREEK	<b>Discharge to</b> CATCH BASIN
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	993572	12/26/09 12:00 PM	RICHARDSON	RICHARDSON	REPAIRED - ISSUE RESOLVED	12/26/09	OBSTRUCTION-NOT GREASE / ROOTS	UNAUTHORIZED DISCHARGE - WATERS	12/26/09 02:00 PM	MAIN

**Spot Inspections:**

Discharge Amount:	5 GAL
Cause:	OBSTRCTUION IN THE MSD MAIN SEWER
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	MSD PERSONNEL ADVISED CUSTOMER TO AVOID CONTACT WITH SEWAGE
Impact:	SEWAGE COMING FROM THE MSD CLEANOUT GOING INTO THE STORM DRAIN
Repair:	WORK ORDER 993575 - ROOTCUT AND OPEN THE MAIN SEWER

**Notifications:**

12/26/09 12:00 PM	DISPUB	ADVISED CUSTOMER BY DOORCARD,ON SITE AND POSTING SIGNS
12/26/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



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

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

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	45544	7904 BROWNSBORO RD		GOOSE CREEK	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	983491	11/20/09 09:30 AM	RICHARDSON	RICHARDSON	REPAIRED - ISSUE RESOLVED	11/20/09	GREASE BLOCKAGE	UNAUTHORIZED DISCHARGE - WATERS	11/20/09 05:06 PM	MAIN

**Spot Inspections:**

Discharge Amount:	75 GAL
Cause:	GREASE IN THE MAIN SEWER
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	MSD PERSONNEL ADVISED CUSTOMER TO AVOID CONTACT WITH SEWAGE
Impact:	SEWAGE COMING FROM THE MANHOLE
Repair:	WORK ORDER 983493 - FLUSHED AND OPEN THE MAIN SEWER

**Notifications:**

11/20/09 09:15 AM	DISPUB	PLACED DISCHARGE SIGNS AND AVISED CUSTOMER ON SITE
11/20/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	45835	1132 ROSTREVOR CIR		MIDDLE FORK BEARGRASS CREEK	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969357	10/09/09 06:40 AM	FIELDS	GRIFFITH	DOCUMENTED	09/02/03	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 09:40 AM	

**Spot Inspections:**

Discharge Amount:	4,200 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #969779
Control Zone:	BARRICADES AND CAUTION TAPE WERE PLACED AROUND IMPACTED AREA
Impact:	SOLIDS AND DEBRIS WERE OBSERVED AROUND DISCHARGE AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 07:05 PM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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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 BEARGRASS CREEK	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969384	10/09/09 06:43 AM	MITCHELL	GRIFFITH	DOCUMENTED	04/04/08	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 08:24 AM	

**Spot Inspections:**

Discharge Amount:	1,080 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NO CLEAN-UP NEEDED
Control Zone:	CAUTION TAPE AND TEMPORARY SIGNS WERE PLACED AROUND IMPACTED AREA
Impact:	NO IMPACT OBSERVED-PIPE SUBMERGED
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 05:56 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	51301	4200 LEE AVE		SOUTH FORK BEARGRASS CREEK	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969392	10/09/09 05:00 AM	MITCHELL	GRIFFITH	DOCUMENTED	09/20/09	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 08:14 AM	

**Spot Inspections:**

Discharge Amount:	540 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #969688
Control Zone:	TEMPORARY SIGNS 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

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 02:24 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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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 BEARGRASS CREEK	DITCH

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969376	10/09/09 04:50 AM	MITCHELL	GRIFFITH	DOCUMENTED	09/12/06	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 08:55 AM	

**Spot Inspections:**

Discharge Amount:	9,720 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	DISCLN WORK ORDER #969775
Control Zone:	TEMPORARY SIGNS AND CAUTION TAPE WERE PLACED AROUND IMPACTED AREA
Impact:	LIGHT SOLIDS AND DEBRIS WERE OBSERVED AROUND DISCHARGE AREA
Repair:	THIS LOCATION IS INCLUDED IN THE SANITARY SEWER DISCHARGE PLAN SUBMITTED ON DECEMBER 31, 2008

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 06:35 PM	DISPUB	PUBLIC NOTIFIED THROUGH DOOR HANGERS TO AVOID DIRECT DISCHARGE TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/09/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	72571-X	4600 CHAMPIONS TRACE LN		SOUTH FORK BEARGRASS CREEK	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969305	10/09/09 04:14 AM	GRIFFITH	GRIFFITH	DOCUMENTED	11/29/01	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 03:17 PM	

**Spot Inspections:**

Discharge Amount:	930 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NONE NEEDED-REMOTE LOCATION ON MSD PROPERTY
Control Zone:	NONE NEEDED
Impact:	NO IMPACT OBSERVED
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/12/09 10:43 AM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/09/09 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 Treatment Center** MORRIS FORMAN      **Receiving Stream of Treatment Center** OHIO RIVER      **Region** WEST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	974827	10/28/09 06:20 AM	FRENCH	GRIFFITH	DOCUMENTED	11/29/01	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/28/09 06:22 AM	

**Spot Inspections:**

Discharge Amount:	224 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN
Clean Up:	NONE POSSIBLE DUE TO MAGNITUDE OF STORM
Control Zone:	NO CONTROL ZONE REQUIRED - NO ACCESS TO OVERFLOW LOCATION. PERMANENT SIGNS POSTED ALONG STREAM.
Impact:	NO IMPACT OBSERVED - MAGNITUDE OF STORM FLUSHED SOLIDS AND DEBRIS FROM SITE
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

**Notifications:**

10/28/09 04:30 PM	DISPUB	Public notified by updates to MSD and Project WIN Overflow Advisory on website and permanent signs posted along the South Fork of Beargrass Creek.
10/28/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov



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

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	975874	10/31/09 03:36 AM	MITCHELL	GRIFFITH	DOCUMENTED	11/29/01	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHAGE - WATERS	10/31/09 03:36 AM	

**Spot Inspections:**

Discharge Amount:	1,627 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NONE NEEDED-PIPE SUBMERGED
Control Zone:	NO CONTROL ZONE-NO ACCESS TO OVERFLOW LOCATION. PERMANENT SIGNS POSTED AT SITE
Impact:	NO IMPACT OBSERVED-PIPE SUBMERGED
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

**Notifications:**

10/31/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
11/04/09 11:23 AM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS TO AVOID DIRECT CONTACT WITH DISCHARGED CONTENT
10/31/09 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

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

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	989845	12/08/09 10:36 PM	GRIFFITH	GRIFFITH	DOCUMENTED	11/29/01	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	12/09/09 01:34 AM	

**Spot Inspections:**

Discharge Amount:	16,206 GAL
Cause:	LACK OF SYSTEM CAPACITY-HEAVY RAIN
Clean Up:	NONE NEEDED-PIPE SUBMERGED
Control Zone:	NO CONTROL ZONE-NO ACCESS TO OVERFLOW LOCATION. PPERMANENT SIGNS POSTED AT SITE.
Impact:	NO IMPACT OBSERVED-PIPE SUBMERGED
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

**Notifications:**

12/08/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/09/09 07:36 AM	DISPUB	PUBLIC NOTIFIED THROUGH PERMANENT SIGNS AT DISCHARGE LOCATION TO AVOID DISCHARGED CONTENT
12/08/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	CSO016	4522 WINNROSE WAY		OHIO RIVER	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	979931	11/11/09 12:00 PM	MULLER		REPAIRED - ISSUE RESOLVED	11/12/09	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE - WATERS	11/12/09 12:17 AM	

**Spot Inspections:**

Discharge Amount:	9,185,000 GAL
Cause:	MECHANICAL FAILURE OF THE GATE AT THE MAIN DIVERSION STRUCTURE
Clean Up:	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO RIVER
Control Zone:	NO CONTROL ZONE SET UP. PERMANENT SIGN POSTED AT OUTFALL.
Impact:	SUBMERGED DICHARGE
Repair:	TEMPORARY MODIFICATIONS MADE TO ALLOW OPERATION OF GATE

**Notifications:**

11/11/09 04:50 PM	DISPUB	Notification made through MSD website, email listserve and local news agencies.
11/11/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
11/11/09 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



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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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<b>Facility Type</b> SMH Sewer Manhole	<b>Facility ID</b> CSO018	<b>Facility Address</b> 1800 NIGHTINGALE RD	<b>If Pump Station, Name of Pump Station:</b>	<b>Receiving Stream</b> SOUTH FORK BEARGRASS CREEK	<b>Discharge to</b> STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	963868	10/01/09 03:00 PM	SINGLETON	BRAZEL	REPAIRED - ISSUE RESOLVED	10/01/09	ELECTRICAL PROBLEMS AT MSD	UNAUTHORIZED DISCHAGE - WATERS	10/01/09 03:58 PM	

**Spot Inspections:**

Discharge Amount:	4,483 GAL
Cause:	ELECTRICAL CONTROLS PROBLEMS
Clean Up:	PIPE DISCHARGE SUBMERGED- NO CLEANUP
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	DISCOLORATION IN STREAM; SEWAGE OBSERVED.
Repair:	MAINTENACE REPAIRED ELECTRICAL PROBLEMS.

**Notifications:**

10/01/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/01/09 03:00 PM	DISPUB	TEMPORARY SIGNS POSTED
10/01/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	CSO020	147 BUCHANAN ST		OHIO RIVER	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	975993	11/01/09 01:00 PM	THOMPSON	THOMPSON	REPAIRED - ISSUE RESOLVED	11/01/09	POWER OUTAGE (LG&E)	UNAUTHORIZED DISCHARGE - WATERS	11/01/09 01:30 PM	

**Spot Inspections:**

Discharge Amount:	1,073,000 GAL
Cause:	POWER ISSUE CAUSED PUMPS TO FAIL AND BYPASS OVER CSO 20 UNTIL PUMPS WERE ABLE TO BE RESTARTED.
Clean Up:	NONE REQUIRED; SUBMERGED OUTLET IN THE OHIO RIVER
Control Zone:	MSD HAS PERMANENT SIGNS LOCATED AT THE SUBMERGED OUTLET PIPE INTO THE OHIO RIVER
Impact:	NONE
Repair:	NONE REQUIRED. POWER WAS RESTORED AND PUMPS WERE RESTARTED

**Notifications:**

11/01/09 01:30 PM	DISPUB	OVERFLOW SIGNS INSTALLED AT OUTFALL TO OHIO RIVER
11/01/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	CSO022	342 W MAIN ST		OHIO RIVER	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	992903	12/21/09 12:37 PM	ELDER	THOMPSON	DOCUMENTED	01/04/04	UTILITY DAMAGED MSD ASSET	UNAUTHORIZED DISCHARGE - WATERS	12/21/09 01:07 PM	

**Spot Inspections:**

Discharge Amount:	312,000 GAL
Cause:	LOUISVILLE WATER COMPANY HAD A WATER MAIN BREAK @ 3RD STREET & ALI BLVD. UTILITY DAMAGE:
Clean Up:	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO RIVER
Control Zone:	NO CONTROL ZONE SET UP - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO RIVER
Impact:	NONE OBSERVED BY MSD PERSONNEL - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO RIVER
Repair:	WHEN FLOW SUBSIDED MSD PUMPS RECOVERED CAUSING THE OVERFLOW TO END

**Notifications:**

12/21/09 05:09 PM	DISPUB	<a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>
12/21/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/21/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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<b>Facility Type</b> SMH Sewer Manhole	<b>Facility ID</b> CSO132	<b>Facility Address</b> 1919 BROWNSBORO RD	<b>If Pump Station, Name of Pump Station:</b>	<b>Receiving Stream</b> MUDDY FORK BEARGRASS CREEK	<b>Discharge to</b> STREAM
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<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	989746	12/08/09 12:30 AM	FRENCH	GRIFFITH	REPAIRED - ISSUE RESOLVED	12/08/09	UTILITY DAMAGED MSD ASSET	UNAUTHORIZED DISCHARGE - WATERS	12/08/09 12:45 AM	

**Spot Inspections:**

Discharge Amount:	3,333 GAL
Cause:	WATER MAIN BREAK ALONG LOWER BROWNSBORO ROAD
Clean Up:	LIMITED ACCESS TO OVERFLOW OUTFALL - NO CLEAN UP REQUIRED
Control Zone:	LIMITED ACCESS TO OVERFLOW OUTFALL - NO CLEAN UP REQUIRED
Impact:	LIMITED ACCESS TO OVERFLOW OUTFALL - NO IMPACT OBSERVED
Repair:	LOUISVILLE WATER COMPANY IS ON SITE MAKING REPAIRS TO WATER MAIN

**Notifications:**

12/11/09 10:42 AM	DISNOT	Manual email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/11/09 10:46 AM	DISPUB	No public notification was made. Overflow event had stopped and a rain event began before verification that the dry weather overflow had actually occurred.



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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	CSO210	4522 WINNROSE WAY		OHIO RIVER	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	979932	11/11/09 10:45 AM	MULLER		REPAIRED - ISSUE RESOLVED	11/12/09	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE - WATERS	11/12/09 01:21 AM	

**Spot Inspections:**

Discharge Amount:	1,150,000 GAL
Cause:	MECHANICAL FAILURE OF THE GATE AT THE MAIN DIVERSION STRUCTURE
Clean Up:	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO RIVER
Control Zone:	NO CONTROL ZONE SET UP. PERMANENT SIGN POSTED AT OUTFALL.
Impact:	SUBMERGED OUTLET
Repair:	TEMPORARY MODIFICATIONS MADE TO ALLOW OPERATION OF GATE

**Notifications:**

11/11/09 04:53 PM	DISPUB	Notification made through MSD website, email listserve and local news agencies.
11/11/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
11/11/09 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

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

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	980591	11/12/09 10:39 AM	FRENCH		REPAIRED - ISSUE RESOLVED	11/12/09	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE - WATERS	11/12/09 11:59 AM	

**Spot Inspections:**

Discharge Amount:	18,781 GAL
Cause:	DIVERSION GATE CLOSED TO FACILITATE REPAIR WORK.
Clean Up:	NO CLEAN UP PERFORMED - PIPES DISCHARGE UNDERWATER, DIRECTLY INTO RIVER
Control Zone:	NO CONTROL ZONE SET UP. PERMANENT SIGN POSTED NEAR OUTFALL.
Impact:	SUBMERGED DISCHARGE
Repair:	REPAIRS COMPLETE

**Notifications:**

11/12/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
11/13/09 01:15 PM	DISPUB	Notification made to public through MSD website, listserve and local media outlets.
11/12/09 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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMH Sewer Manhole	CSO211	1423 SOUTHWESTERN PKY		OHIO RIVER	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	979933	11/11/09 07:00 AM	MULLER		DOCUMENTED	11/22/03	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE - WATERS	11/11/09 07:00 AM	

**Spot Inspections:**

Discharge Amount:	1 GAL
Cause:	MECHANICAL FAILURE OF THE GATE AT THE MAIN DIVERSION STRUCTURE - ADDITIONAL ANALYSIS INDICATES NO DISCHARGE OCCURRED AT THIS CSO.
Clean Up:	ADDITIONAL ANALYSIS INDICATES NO DISCHARGE OCCURRED AT THIS CSO.
Control Zone:	NO CONTROL ZONE SET UP. PERMANENT SIGN POSTED AT OUTFALL.
Impact:	SUBMERGED OUTLET - ADDITIONAL ANALYSIS INDICATES NO DISCHARGE OCCURRED AT THIS CSO.
Repair:	REPAIRS ARE UNDERWAY - ADDITIONAL ANALYSIS INDICATES NO DISCHARGE OCCURRED AT THIS CSO.

**Notifications:**

11/11/09 04:54 PM	DISPUB	Notification made through MSD website, email listserve and local news agencies.
11/11/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
11/11/09 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



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

<b>KPDES #</b> KY0022411 (Cont'd)	<b>Facility ID</b> MSD0278	<b>Water Quality Treatment Center</b> MORRIS FORMAN	<b>Receiving Stream of Treatment Center</b> OHIO RIVER	<b>Region</b> WEST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SLS Sewer Lift Station	MSD0012-PS	3246 RADIANCE RD	HIGHGATE SPRINGS	SOUTH FORK BEARGRASS CREEK	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969276	10/09/09 04:26 AM	ELDER	MILLS	DOCUMENTED	12/16/00	PUMPED OVERFLOW	UNAUTHORIZED DISCHARGE - WATERS	10/10/09 08:49 PM	

**Spot Inspections:**

Discharge Amount:	1,627,860 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGN IN PLACE - NO ADDITIONAL CONTROL ZONE SET UP
Impact:	NONE OBSERVED - OUTLETS SUBMERGED
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN

**Notifications:**

10/09/09 06:06 AM	DISPUB	PERMANENT SIGNS POSTED IN AREA
10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 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 Treatment Center** MORRIS FORMAN      **Receiving Stream of Treatment Center** OHIO RIVER      **Region** WEST

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	975856	10/31/09 04:46 AM	ELDER	MILLS	DOCUMENTED	12/16/00	PUMPED OVERFLOW	UNAUTHORIZED DISCHAGE - WATERS	11/01/09 06:10 AM	

**Spot Inspections:**

Discharge Amount:	415,740 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGNS, - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NONE OBSERVED - OUTLETS SUBMERGED
Repair:	THIS LOCATION IS IN THE INTERIM SANITARY SEWER DISCHARGE PLAN FOR ABATEMENT

**Notifications:**

10/31/09 08:23 AM	DISPUB	PERMANENT SIGNS POSTED IN AREA
10/31/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/31/09 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



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

**KPDES #** KY0098540      **Facility ID** MSD0289      **Water Quality Treatment Center** CEDAR CREEK      **Receiving Stream of Treatment Center** CEDAR CREEK      **Region** CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SSL Sewer Service Line	160264	6023 COOPER CHAPEL RD		FISHPOOL CREEK	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	964012	10/02/09 07:40 AM	SINGLETON	PATTERSON	DOCUMENTED	06/03/06	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/02/09 10:40 AM	

**Spot Inspections:**

Discharge Amount:	2,700 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 & DEBRIS OBSERVED
Repair:	THIS SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR.

**Notifications:**

10/02/09 08:42 AM	DISPUB	TEMPORARY SIGNS POSTED
10/02/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/02/09 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 #** KY0098540 (Cont'd)     
 **Facility ID** MSD0289     
 **Water Quality Treatment Center** CEDAR CREEK     
 **Receiving Stream of Treatment Center** CEDAR CREEK     
 **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969528	10/09/09 05:00 AM	SINGLETON	KESSEL	DOCUMENTED	06/03/06	LACK OF SYSTEM CAPACITY	UNAUTHORIZED DISCHARGE - WATERS	10/09/09 06:00 AM	

**Spot Inspections:**

Discharge Amount:	50 GAL
Cause:	OVERFLOWED AT CLEAN OUT DUE TO RAIN EVENT IN THE AREA
Clean Up:	MSD CLEANED & SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE & SOLIDS OBSERVED
Repair:	HAULING TO PREVENT FURTHER DISCHARGE #969313

**Notifications:**

10/09/09 05:00 AM	DISPUB	TEMPORARY SIGNS POSTED
10/09/09 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 #** KY0098540 (Cont'd)      **Facility ID** MSD0289      **Water Quality Treatment Center** CEDAR CREEK      **Receiving Stream of Treatment Center** CEDAR CREEK      **Region** CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMN Sewer Main	98169A-V	10200 CEDAR CREEK RD		CEDAR CREEK	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISSUS: SUSPECTED OVERFLOW EVID. FOUND	988419	12/03/09 07:37 PM	KIMBROUGH	KIMBROUGH	REPAIRED - ISSUE RESOLVED	12/03/09	STRUCTURAL FAILURE	UNAUTHORIZED DISCHAGE - WATERS	12/03/09 08:48 PM	

**Spot Inspections:**

Discharge Amount:	5 GAL
Cause:	STRUCTURAL FAILURE FORCE MAIN BREAK
Clean Up:	CLEANED AND SANITIZED THE IMPACTED AREA
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	SEWAGE/DEBRIS/SOLIDS/PERSONAL HYGIENE PRODUCTS FOUND ON THE GROUND
Repair:	REFERRED TO OPERATION FOR REPAIRS

**Notifications:**

12/03/09 07:37 PM	DISPUB	placed signs in the area
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Report Selections: Excluding PPI, CSO, Result: WUS, Act Code: DISDW, DISREV, DISSUS

**KPDES #** KY0098540 (Cont'd)     
 **Facility ID** MSD0289     
 **Water Quality Treatment Center** CEDAR CREEK     
 **Receiving Stream of Treatment Center** CEDAR CREEK     
 **Region** CENT

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0289	8605 CEDAR CREEK RD		CEDAR CREEK	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	975966	11/01/09 05:00 AM	ELDER	MILLS	REPAIRED - ISSUE RESOLVED	12/08/09	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	11/01/09 06:15 AM	

**Spot Inspections:**

Discharge Amount:	207,997 GAL
Cause:	UV EAST CHANNEL EFFLUENT GATE FAILED TO COMPLETELY CLOSE IN AUTOMATIC
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING DIRECTLY INTO STREAM
Control Zone:	NO CONTROL ZONE WAS SET UP - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NONE OBSERVED
Repair:	CLOSED GATE IN MANUAL TO STOP FLOW UNTIL CAUSE INVESTIGATED & REPAIRS CAN BE MADE

**Notifications:**

11/01/09 10:31 AM	DISPUB	Permanent signs posted in area & notification up chain of command for notification by <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>
11/01/09 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, Result: WUS, Act Code: DISDW, DISREV, DISSUS

**KPDES #** KY0098540 (Cont'd)      **Facility ID** MSD0289      **Water Quality Treatment Center** CEDAR CREEK      **Receiving Stream of Treatment Center** CEDAR CREEK      **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	989846	12/08/09 11:00 PM	ELDER	MILLS	REPAIRED - ISSUE RESOLVED	12/08/09	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	12/08/09 11:30 PM	

**Spot Inspections:**

Discharge Amount:	100 GAL
Cause:	HEAVY RAIN EVENT IN AREA & ADJUSTMENT OF CENTER WELL GATE. INSPECT DRAIN LINE FOR BREAKAGE
Clean Up:	NO CLEANUP OCCURRED DUE TO HEAVY RAIN
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	SEWAGE/WATER DISCHARGING FROM CURB BY AERATION TANK
Repair:	ADJUSTED CENTER WELL GATE TO STOP BYPASS

**Notifications:**

12/08/09 11:56 PM	DISPUB	PERMANENT SIGNS POSTED IN AREA SUPPLEMENTED BY TEMPORARY SIGNS
12/08/09 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

<b>KPDES #</b> KY0029114	<b>Facility ID</b> MSD0292	<b>Water Quality Treatment Center</b> HUNTING CREEK SOUTH	<b>Receiving Stream of Treatment Center</b> HARRODS CREEK	<b>Region</b> EAST
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SLS Sewer Lift Station	MSD1064-PS	8619 WESTOVER DR	WESTOVER	HARRODS CREEK	DITCH

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	972767	10/20/09 01:53 PM	MARKS JR	KAISER	REPAIRED - ISSUE RESOLVED	10/20/09	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE - WATERS	10/20/09 02:05 PM	

**Spot Inspections:**

Discharge Amount:	150 GAL
Cause:	ONE PUMP HAS PROBLEM WITH BEARINGS
Clean Up:	MSD PERSONNEL CLEANED AND SANITIZED THE AREA
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	SEWAGE ON GROUND AND IN CREEK
Repair:	STATION BEING HAULED UNTIL REPAIRS ARE COMPLETED

**Notifications:**

10/20/09 02:36 PM	DISPUB	MSD NOTIFIED PUBLIC WITH TEMPORARY SIGNS
10/20/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov

Total Facilities Printed: 37

Total Work Orders Printed: 54

Appendix B-2 - Discharge Work Orders – BYPASS



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

**KPDES #** KY0031712      **Facility ID** MSD0247      **Water Quality Treatment Center** STARVIEW      **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	MSD0247	423 BERMUDA WAY		CHENOWETH RUN	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	989838	12/08/09 09:53 PM	ELDER	LAMBDIN JR	REPAIRED - ISSUE RESOLVED	12/08/09	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	12/08/09 10:24 PM	

**Spot Inspections:**

Discharge Amount:	2,139 GAL
Cause:	HIGH FLOW DUE TO RAIN EVENT IN AREA
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGN IN PLACE - NO ADDITIONAL CONTROL ZONE SET UP
Impact:	SOME DISCOLORATION OF STREAM
Repair:	TURNED OFF BLOWERS TO SETTLE PLANT

**Notifications:**

12/08/09 10:55 PM	DISPUB	PERMANENT SIGNS POSTED IN AREA
12/08/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/08/09 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, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

**KPDES #** KY0029459      **Facility ID** MSD0263      **Water Quality Treatment Center** CHENOWETH HILLS      **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	MSD0263	4305 ST RENE CT		CHENOWETH RUN	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	967725	10/05/09 03:15 PM	ELDER	WRIGHT	DOCUMENTED	09/27/02	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	10/05/09 05:35 PM	

**Spot Inspections:**

Discharge Amount:	7,953 GAL
Cause:	MECHANICAL, FITTING FAILURE
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	NO CONTROL ZONE WAS SET UP - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NO IMPACT OBSERVED PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Repair:	REMOVED FAILED FITTING & REPLACED. RETURNED TO SERVICE.

**Notifications:**

10/05/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/05/09 12:00 AM	DISPUB	NOTIFICATION WAS MADE THROUGH THE PROJECT w\IN WEBSITE AND LISTSERVE.
10/05/09 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



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

**KPDES #** KY0029459 (Cont'd)     
 **Facility ID** MSD0263     
 **Water Quality Treatment Center** CHENOWETH HILLS     
 **Receiving Stream of Treatment Center** CHENOWETH RUN     
 **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	989842	12/08/09 09:50 PM	ELDER	BRAZEL	DOCUMENTED	09/27/02	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	12/09/09 02:40 AM	

**Spot Inspections:**

Discharge Amount:	67,535 GAL
Cause:	RAIN EVENT IN AREA CAUSING SOLIDS TO WASH OUT OF PLANT
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGN IN PLACE - NO ADDITIONAL CONTROL ZONE SET UP
Impact:	NONE OBSERVED - OUTLETS SUBMERGED
Repair:	TURNED BLOWERS OFF TO SETTLE THE PLANT SOLIDS

**Notifications:**

12/08/09 11:06 PM	DISPUB	PERMANENT SIGNS POSTED IN AREA
12/08/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/08/09 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, Prob Code: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	996579	12/31/09 12:19 AM	MARKS JR	LAMB DIN JR	DOCUMENTED	10/17/06	BYPASS AT WQTC	UNAUTHORIZED DISCHAGE - WATERS	12/31/09 02:29 AM	

**Spot Inspections:**

Discharge Amount:	1,500,000 GAL
Cause:	POWER FAILURE CAUSED BY L G & E
Clean Up:	NO DEBRIS ,ONLY A BYPASS OF DISINFECTION
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED
Repair:	L G & E RESTORED POWER ALL SYSTEMS BACK IN SERVICE

**Notifications:**

12/31/09 12:58 PM	DISPUB	public notified by web site and temporary signs
12/31/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/31/09 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



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

<b>KPDES #</b> KY0098540	<b>Facility ID</b> MSD0289	<b>Water Quality Treatment Center</b> CEDAR CREEK	<b>Receiving Stream of Treatment Center</b> CEDAR CREEK	<b>Region</b> CENT
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Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SPL Sewer Treatment Plant	MSD0289	8605 CEDAR CREEK RD		CEDAR CREEK	GROUND

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISDW: DRY WEATHER DISCHARGE	975966	11/01/09 05:00 AM	ELDER	MILLS	REPAIRED - ISSUE RESOLVED	12/08/09	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	11/01/09 06:15 AM	

**Spot Inspections:**

Discharge Amount:	207,997 GAL
Cause:	UV EAST CHANNEL EFFLUENT GATE FAILED TO COMPLETELY CLOSE IN AUTOMATIC
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING DIRECTLY INTO STREAM
Control Zone:	NO CONTROL ZONE WAS SET UP - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NONE OBSERVED
Repair:	CLOSED GATE IN MANUAL TO STOP FLOW UNTIL CAUSE INVESTIGATED & REPAIRS CAN BE MADE

**Notifications:**

11/01/09 10:31 AM	DISPUB	Permanent signs posted in area & notification up chain of command for notification by <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>
11/01/09 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: BYPAS, Result: WUS, Act Code: DISDW, DISREV, DISSUS

**KPDES #** KY0098540 (Cont'd)      **Facility ID** MSD0289      **Water Quality Treatment Center** CEDAR CREEK      **Receiving Stream of Treatment Center** CEDAR CREEK      **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	989846	12/08/09 11:00 PM	ELDER	MILLS	REPAIRED - ISSUE RESOLVED	12/08/09	BYPASS AT WQTC	UNAUTHORIZED DISCHARGE - WATERS	12/08/09 11:30 PM	

**Spot Inspections:**

Discharge Amount:	100 GAL
Cause:	HEAVY RAIN EVENT IN AREA & ADJUSTMENT OF CENTER WELL GATE. INSPECT DRAIN LINE FOR BREAKAGE
Clean Up:	NO CLEANUP OCCURRED DUE TO HEAVY RAIN
Control Zone:	PLACED TEMPORARY SIGNS AROUND THE IMPACTED AREA
Impact:	SEWAGE/WATER DISCHARGING FROM CURB BY AERATION TANK
Repair:	ADJUSTED CENTER WELL GATE TO STOP BYPASS

**Notifications:**

12/08/09 11:56 PM	DISPUB	PERMANENT SIGNS POSTED IN AREA SUPLIMENTED BY TEMPORARY SIGNS
12/08/09 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: 4  
Total Work Orders Printed: 6

Appendix B-3 - Discharge Work Orders – BLENDING



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

**KPDES #** KY0025194     
 **Facility ID** MSD0255     
 **Water Quality Treatment 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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	964033	10/02/09 08:36 AM	SINGLETON	STEPHENSON	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	10/02/09 10:40 AM	

**Spot Inspections:**

Peak Plant Flow when Blending:	11,110,000 GPD
Total Plant Flow when Blending:	5,160,000 GAL
Discharge Amount:	34,813 GAL
Cause:	FLOW EXCEEDED PLANT CAPACITY
Clean Up:	NO CLEANUP PERFORMED- PIPE DISCHARGING UNDERWATER
Control Zone:	TEMPORARY SIGNS POSTED
Impact:	NO IMPACT OBSERVED- FACILITY UNDER ELEVATED CREEK LEVEL.
Repair:	A SOLUTION FOR THIS LOCATION IS IN THE IOAP

**Notifications:**

10/02/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/02/09 08:36 AM	DISPUB	TEMPORARY SIGNS POSTED
10/02/09 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 Treatment Center** JEFFERSONTOWN     
 **Receiving Stream of Treatment Center** CHENOWETH RUN     
 **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	969277	10/09/09 04:31 AM	ELDER	MILLS	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	10/10/09 01:58 AM	

**Spot Inspections:**

Peal Plant Flow when Blending:	16,855,000 GPD
Total Plant Flow when Blending:	9,090,339 GAL
Discharge Amount:	1,650,306 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGN IN PLACE - NO ADDITIONAL CONTROL ZONE SET UP
Impact:	NO IMPACT OBSERVED - FACILITY UNDER ELEVATED CREEK LEVEL
Repair:	NOGOTATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

10/09/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/09/09 12:00 AM	DISPUB	PERMANENT SIGNS POSTED IN AREA
10/09/09 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 Treatment Center** JEFFERSONTOWN      **Receiving Stream of Treatment Center** CHENOWETH RUN      **Region** CENT

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	974557	10/27/09 11:43 PM	ELDER	WRIGHT	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	10/28/09 02:02 AM	

**Spot Inspections:**

Peal Plant Flow when Blending:	11,222,128 GPD
Total Plant Flow when Blending:	9,049,000 GAL
Discharge Amount:	47,447 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	NO CLEAN UP PERFORMED - WATER RECEIVED PRIMARY & UV TREATMENT
Control Zone:	NO CONTROL ZONE WAS SET UP - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NO IMPACT OBSERVED - FLOW RECEIVED PRIMARY & UV TREATMENT
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

10/28/09 12:58 AM	DISPUB	Permanent signs posted in area & <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>
10/27/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/27/09 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, Prob Code: BLEND, Result: WUS, Act Code: DISDW, DISREV, DISSUS

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	975855	10/31/09 03:27 AM	ELDER	CLARK	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	10/31/09 04:00 PM	

**Spot Inspections:**

Peal Plant Flow when Blending:	14,320,000 GPD
Total Plant Flow when Blending:	8,350,000 GAL
Discharge Amount:	966,634 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN IN AREA
Clean Up:	NO CLEAN UP PERFORMED - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Control Zone:	PERMANENT SIGNS IN PLACE. PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM.
Impact:	NO IMPACT OBSERVED - FACILITY UNDER ELEVATED CREEK LEVEL
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

10/31/09 08:11 AM	DISPUB	Permanent signs posted in area & <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>
10/31/09 01:00 AM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
10/31/09 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



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

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

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
DISREV: RAIN EVENT DISCHARGE	989835	12/08/09 08:53 PM	ELDER	MILLS	DOCUMENTED	01/14/07	BLENDING AT JTOWN WQTC	UNAUTHORIZED DISCHARGE - WATERS	12/09/09 02:51 AM	

**Spot Inspections:**

Peal Plant Flow when Blending:	13,410,000 GPD
Total Plant Flow when Blending:	7,360,000 GAL
Discharge Amount:	378,622 GAL
Cause:	LACK OF CAPACITY DUE TO RAIN EVENT IN AREA
Clean Up:	CLEANUP NOT POSSIBLE DUE TO ELEVATED CREEK LEVEL
Control Zone:	PERMANANT SIGNS, - PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Impact:	NONE OBSERVED - OUTLETS SUBMERGED PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM
Repair:	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION

**Notifications:**

12/08/09 01:00 PM	DISNOT	Email notification of unauthorized discharge sent to ireland.sean@epa.gov, eppc.ert@ky.gov and LisaA.Jeffries@ky.gov
12/10/09 06:45 AM	DISPUB	PERMANANT SIGNS POSTED IN AREA & <a href="http://www.msdlouky.org/projectwin/">http://www.msdlouky.org/projectwin/</a>
12/08/09 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

CSO	CSO NAME	RECEIVING STREAM	Drainage Area (Acres)	October 2008 IWCS (ver8.0)		January 2009 IWCS (ver 9.5)		Change in AAOV (MG/YR) Jan-Oct
				AAOV (MG/YR)	OF Incidents (# OF/YR)	AAOV (MG/YR)	OF Incidents (# OF/YR)	
015	SOUTHWESTERN PS	OR	7,496.7	1177.03	56	845.75	66	-331.28
016	MILES PARK BYPASS	OR		82.38	37	29.94	30	-52.44
018	NIGHTINGALE PS	SF BGC		49.00	16	44.93	16	-4.07
019	34th STREET PS	OR	1,094.0	297.92	60	305.40	60	7.48
020	BUCHANAN PS	OR	86.6	6.46	14	6.60	12	0.14
022	FOURTH ST PS	OR	100.9	0.95	4	0.96	4	0.00
023	ORI @ 4th ST PS	OR		85.96	26	76.78	28	-9.18
026	CRD 6th & BROADWAY	OR	8.4	0.00	0	0.00	0	0.00
027	CRD 7th & BROADWAY	OR	10.1	0.00	0	0.00	0	0.00
028	CRD 6th & YORK	OR	6.1	0.00	0	0.00	0	0.00
029	CRD 8th & YORK	OR	34.8	5.66	33	5.66	33	0.00
030	CRD 9th & YORK "A"	OR	<b>Eliminated</b>					
031	CRD 6th & BRECKINRIDGE	OR	3.7	0.00	0	0.00	0	0.00
032	CRD 4th & BRECKINRIDGE	OR	<b>Eliminated</b>					
033	CRD ON YORK E OF 4th	OR	<b>Eliminated</b>					
034	CRD 4th & YORK	OR	5.1	0.00	0	0.00	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	<b>Eliminated</b>					
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	<b>Eliminated</b>					
080	PAYNE STREET	MF BGC	<b>Eliminated</b>					
081	LETTERLE	SF BGC	<b>Eliminated</b>					
082	BGI AT BGC	SF BGC		1.16	24	1.13	24	-0.03
083	BRENT 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	<b>Eliminated</b>					
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	WESTERN OUTFALL @ BROADWAY	OR	1,881.2	21.43	19	21.46	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

Louisville MSD  
Existing Condition AAOV

CSO	CSO NAME	RECEIVING STREAM	Drainage Area (Acres)	October 2008 IWCS (ver8.0)		January 2009 IWCS (ver 9.5)		Change in AAOV (MG/YR) Jan-Oct
				AAOV (MG/YR)	OF Incidents (# OF/YR)	AAOV (MG/YR)	OF Incidents (# OF/YR)	
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	<b>Eliminated</b>					
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	REG 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	<b>Eliminated</b>					
144	VANCE ST REGULATOR	MF BGC	16.4	0.00	0	0.00	0	0.00
145	POINT PUMP STATION	SF BGC	<b>Eliminated</b>					
146	SNEADS BRANCH DIVERSION	SF BGC	112.6	50.45	46	52.57	58	2.12
147	SWAN STREET DIVERSION	SF BGC	<b>Eliminated</b>					
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	<b>Eliminated</b>					
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	<b>Eliminated</b>					
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

Louisville MSD  
Existing Condition AAOV

CSO	CSO NAME	RECEIVING STREAM	Drainage Area (Acres)	October 2008 IWCS (ver8.0)		January 2009 IWCS (ver 9.5)		Change in AAOV (MG/YR) Jan-Oct
				AAOV (MG/YR)	OF Incidents (# OF/YR)	AAOV (MG/YR)	OF Incidents (# OF/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	<b>Eliminated</b>					
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	<b>Eliminated</b>					
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	<b>Eliminated</b>					
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
<b>SBR</b>	<b>CSOs 142,174,180,182,183,184,185,186,187,188,205</b>			<b>12.15</b>	<b>9</b>	<b>12.14</b>	<b>9</b>	<b>-0.01</b>
<b>Total</b>				<b>4,092</b>	<b>2,314</b>	<b>3,298</b>	<b>2,348</b>	
				<b>Total AAOV Difference (MG/YR)</b>	<b>613.82</b>	<b>-793.02</b>		
				<b>Total AAOV Difference (Percentage)</b>	<b>15%</b>	<b>-19%</b>		

**Details of Individual SBR CSOs**

SBR	CSOs 142,174,180,182,183,184,185,186,187,188,205	RECEIVING STREAM	Drainage Area (Acres)	AAOV (MG/YR)	OF Incidents (# OF/YR)	AAOV (MG/YR)	OF Incidents (# OF/YR)
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

Appendix D – CSO Flow Monitoring Data

CSO #	Data Summary
CSO015	All data is present.
CSO016	All data is present.
CSO018	All data is present.
CSO019	All data is present.
CSO050	Flow meter installed on 11/17/2009.
CSO055	Flow meter installed on 11/17/2009.
CSO058	Flow meter installed on 12/16/2009.
CSO084	Flow meter installed on 11/18/2009. Configuration problems existed until 12/11/2009 which caused data gaps.
CSO097	All data is present.
CSO105	Flow meter installed on 11/18/2009. Configuration problems existed until 12/02/2009 which caused data gaps.
CSO108	All data is present.
CSO110	All data is present.
CSO117	All data is present.
CSO118	All data is present.
CSO121	Flow meter installed on 11/20/2009. Configuration problems existed until 12/30/2009 which caused data gaps.
CSO125	All data is present.
CSO127	All data is present.
CSO132	All data is present.
CSO140	All data is present.
CSO146	All data is present.
CSO149	Flow meter installed on 11/17/2009. Configuration problems existed until 12/02/2009 which caused data gaps.
CSO151	All data is present.
CSO152	All data is present.
CSO153	Flow meter installed on 11/17/2009. Configuration problems existed until 12/03/2009 which caused data gaps.
CSO166	All data is present.
CSO174	Flow meter installed in November of 2009. Configuration problems existed until 12/15/2009.
CSO182	All data is present.
CSO189	All data is present.
CSO190	All data is present.
CSO191	All data is present.
CSO206	All data is present.
CSO210	All data is present.
CSO211	All data is present.



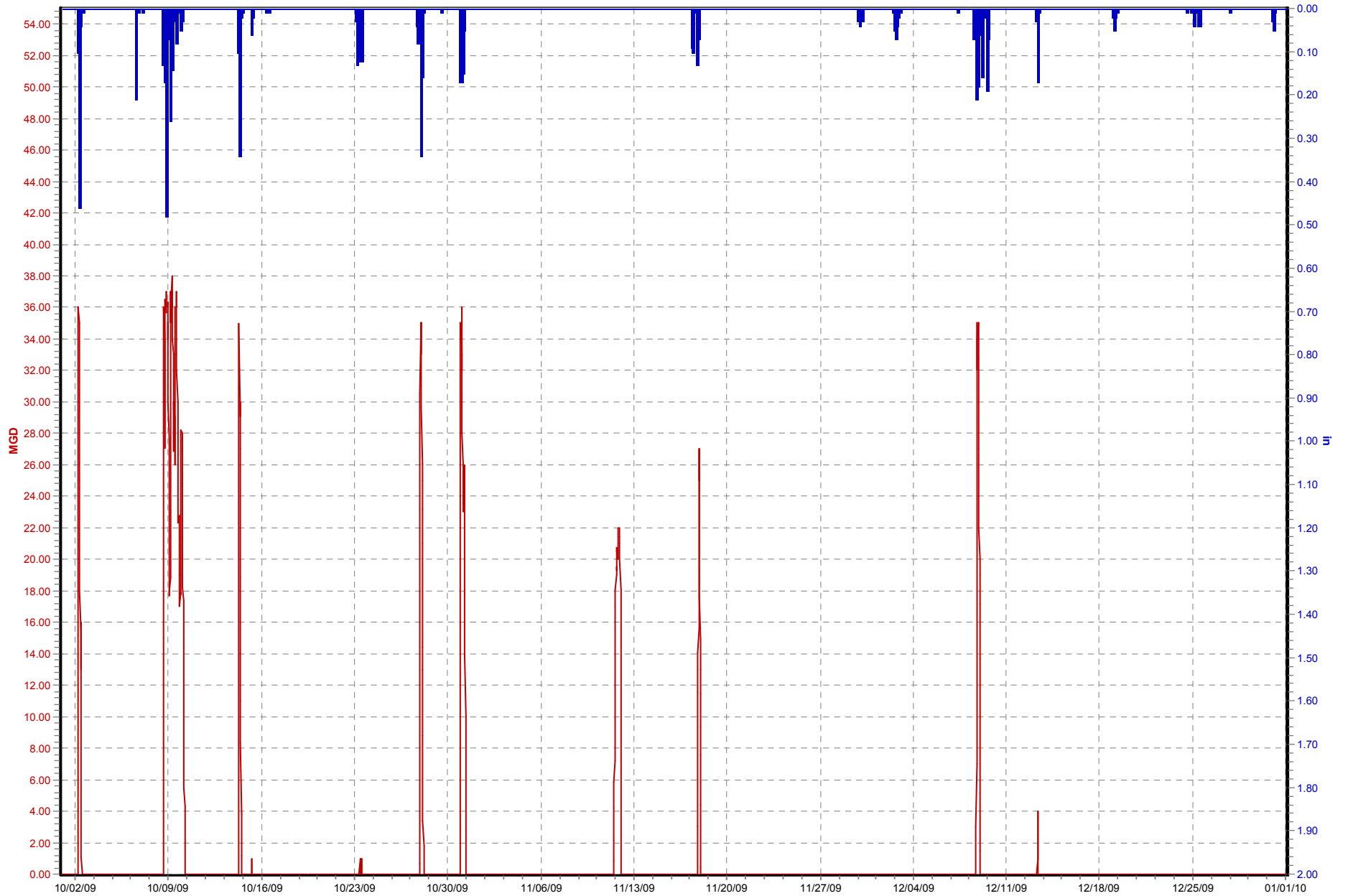
### CSO015 (10/01/09 to 01/01/10)

Flow (MGD)       TR04.Hourly Rain Totals (in)



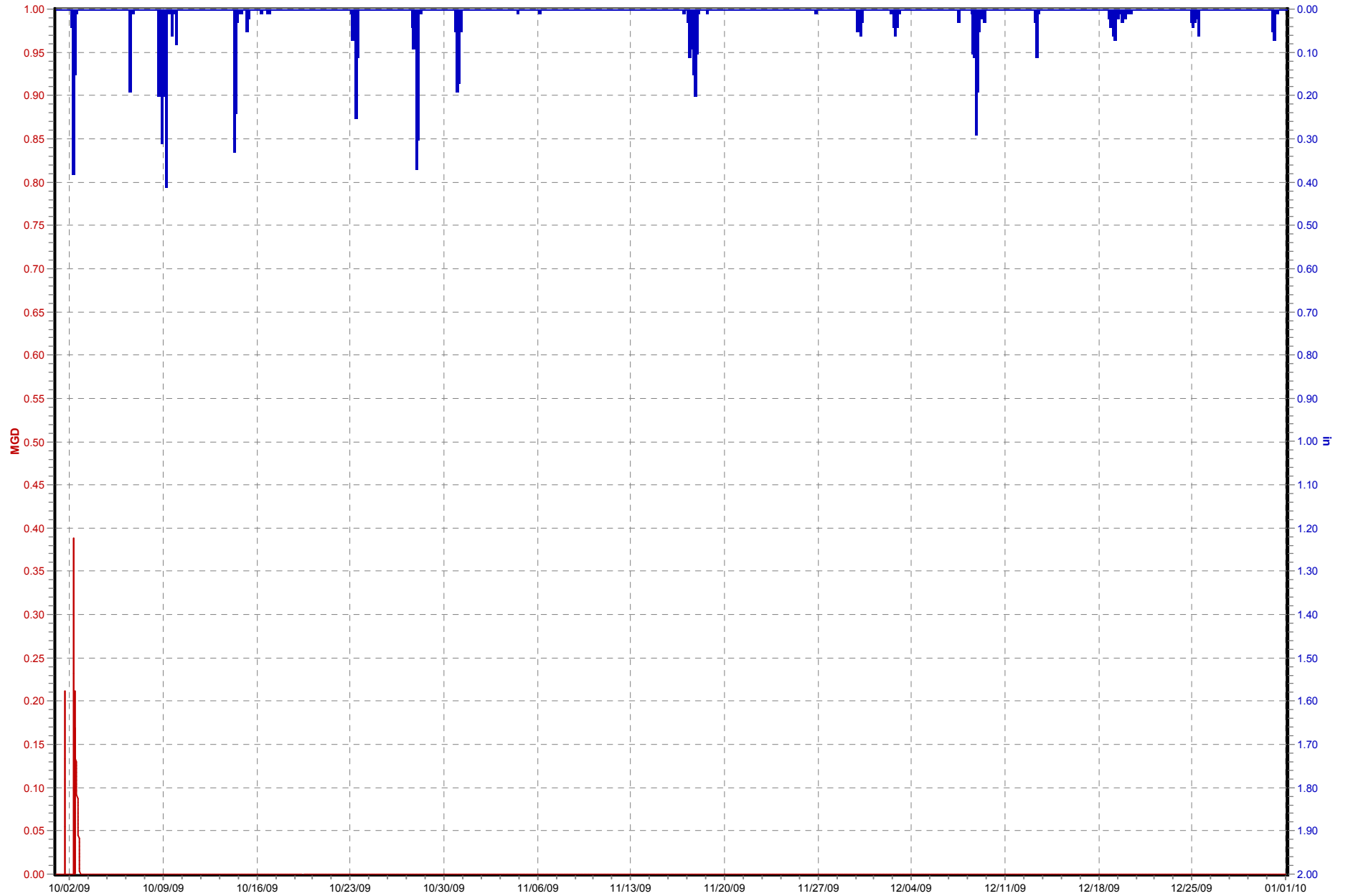
CSO016 (10/01/09 to 01/01/10)

Flow (MGD)  TR04.Hourly Rain Totals (in)



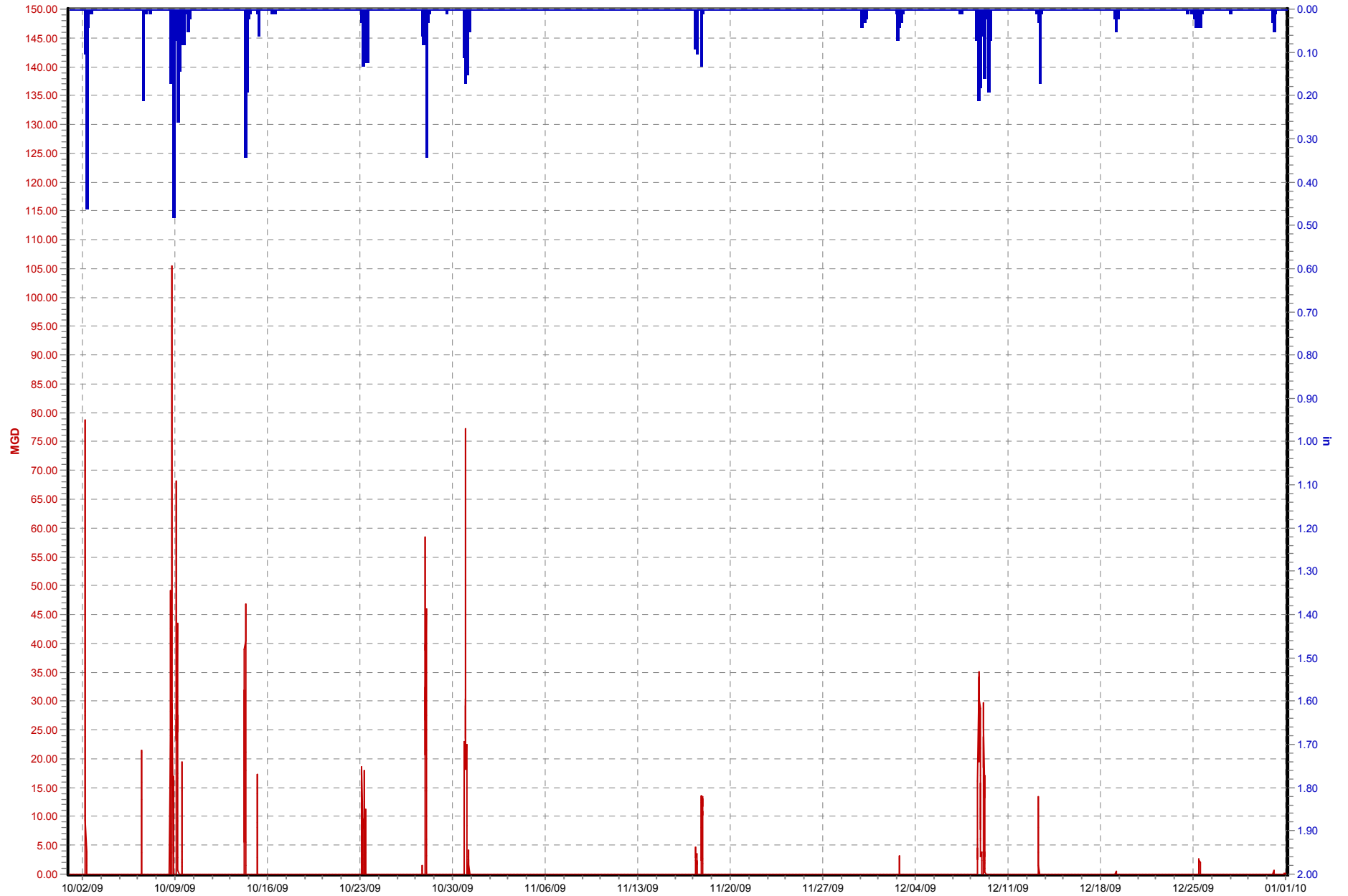
### CSO018 (10/01/09 to 01/01/10)

Flow (MGD)       TR12.Hourly Rain Totals (in)



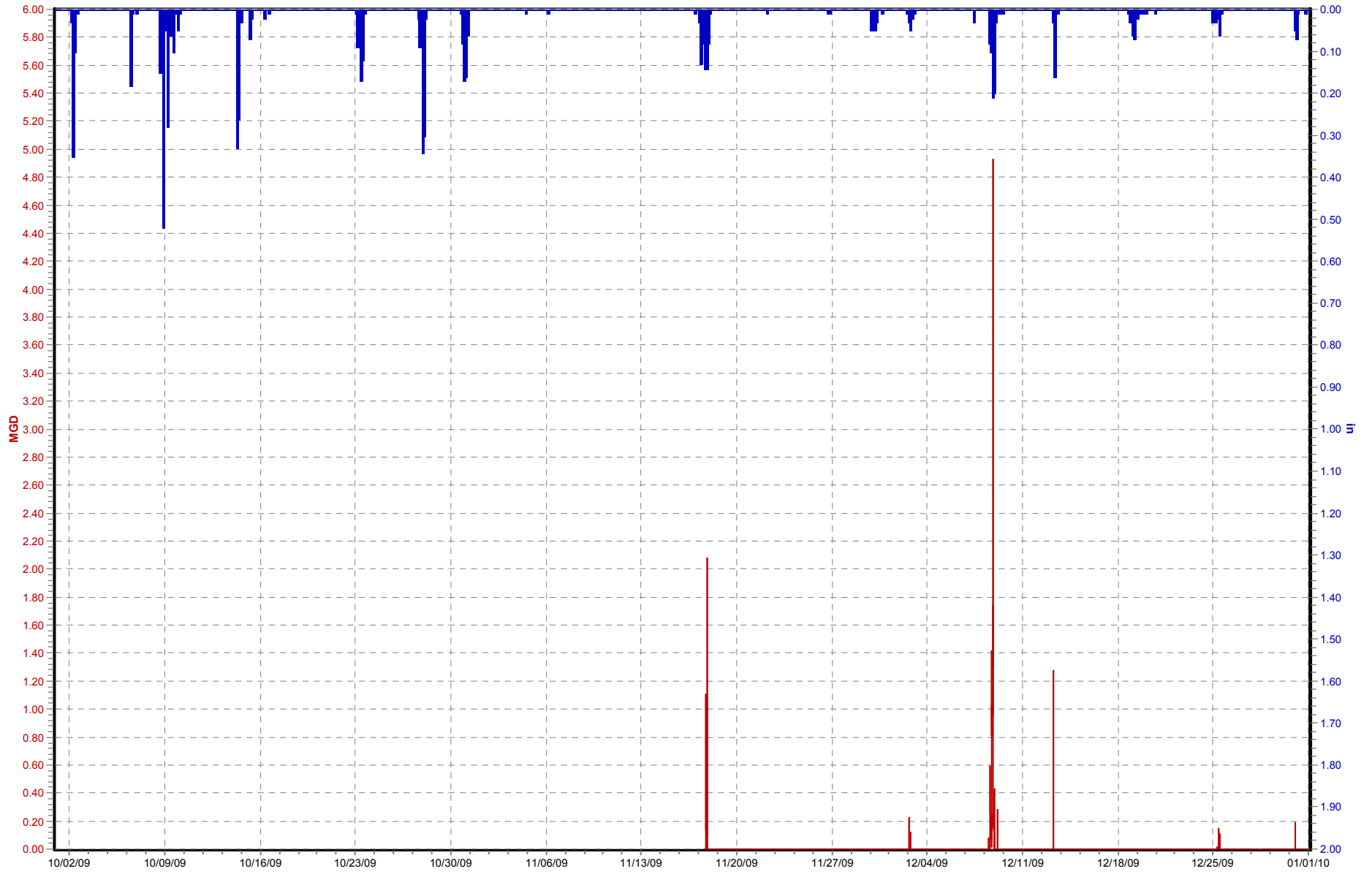
### CSO019 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR04.Hourly Rain Totals (in)



### CSO050 (10/01/09 to 01/01/10)

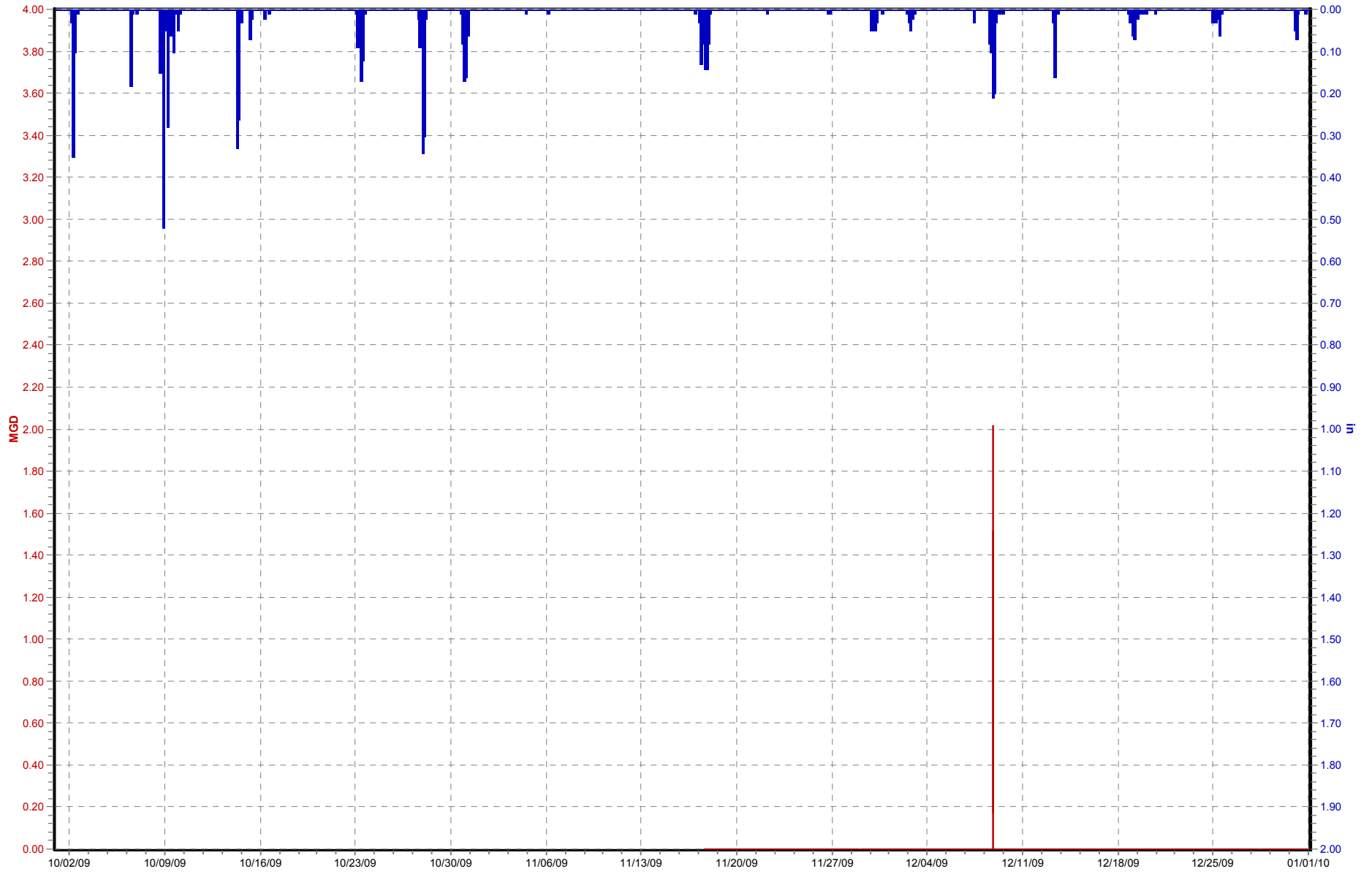
Flow 1 (MGD)     TR05.Hourly Rain Totals (in)



Flow Meter Installed on 11/17/2009.

CSO055 (10/01/09 to 01/01/10)

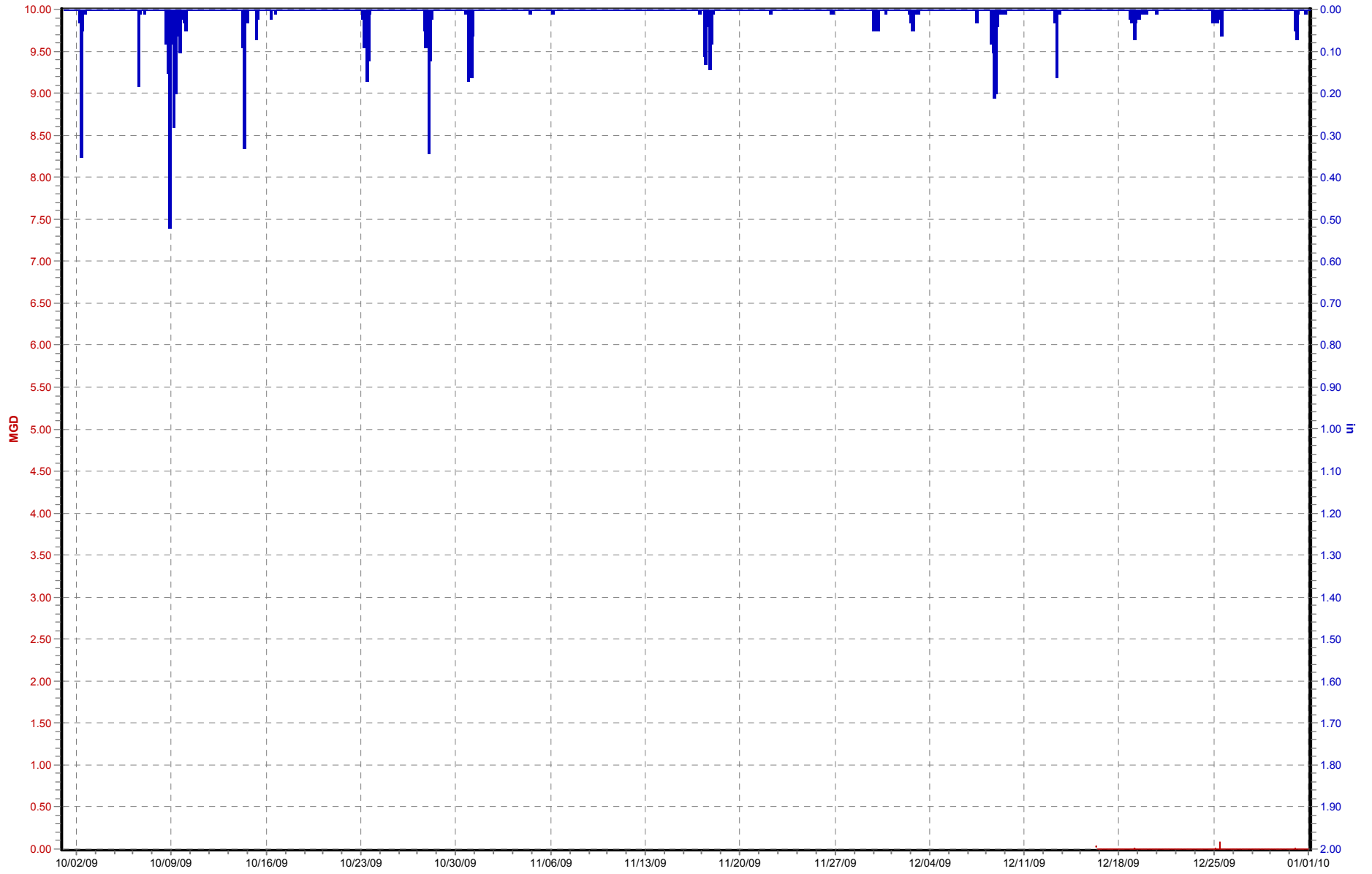
Flow 1 (MGD)  TR05.Hourly Rain Totals (in)



Flow Meter Installed on 11/17/2009.

CSO058 (10/01/09 to 01/01/10)

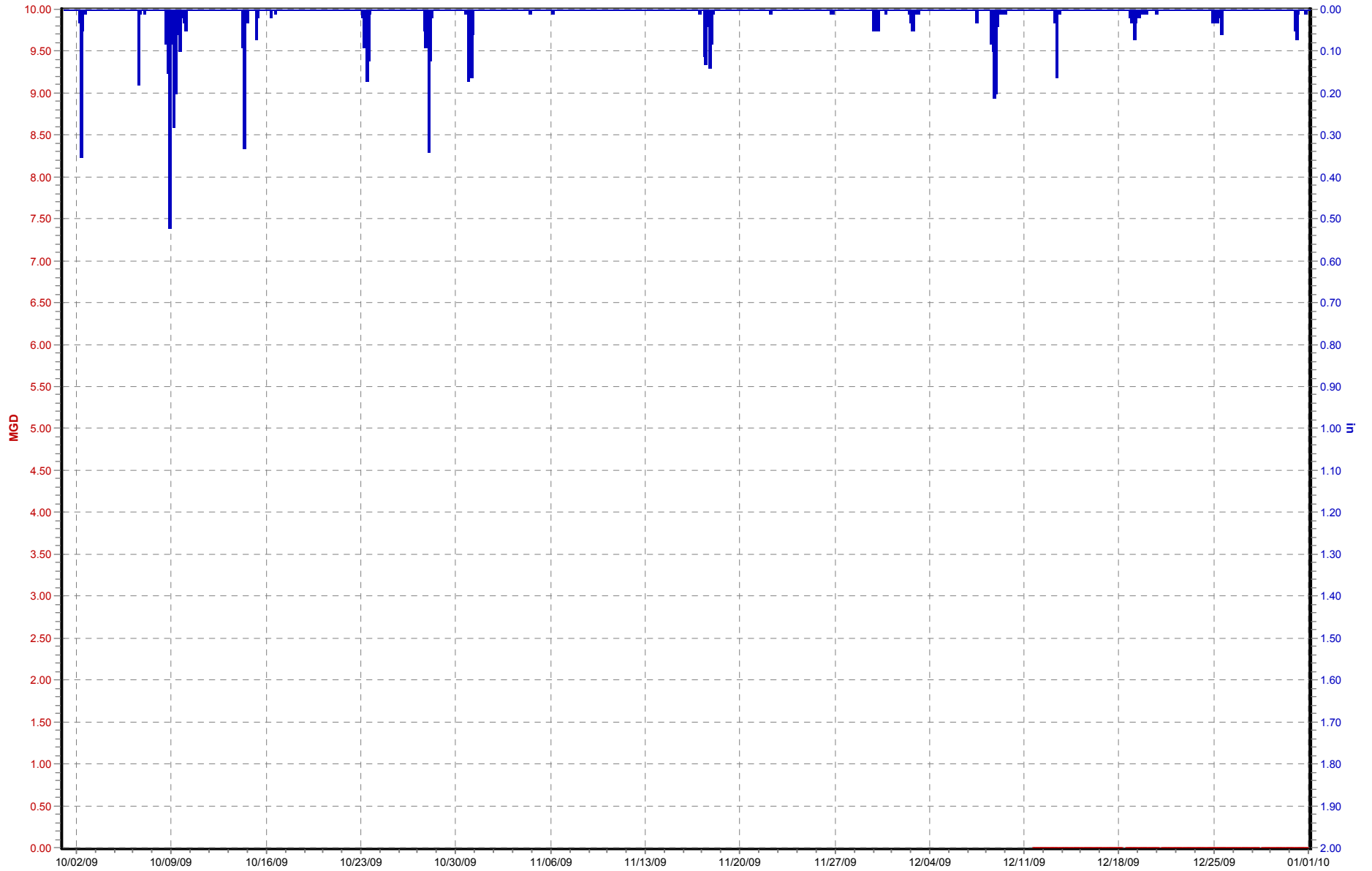
Flow 1 (MGD)  TR05.Hourly Rain Totals (in)



Flow Meter Installed on 12/16/2009.

CSO084 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR05.Hourly Rain Totals (in)



Flow Meter Installed on 11/18/2009. Configuration problems existed until 12/11/2009.



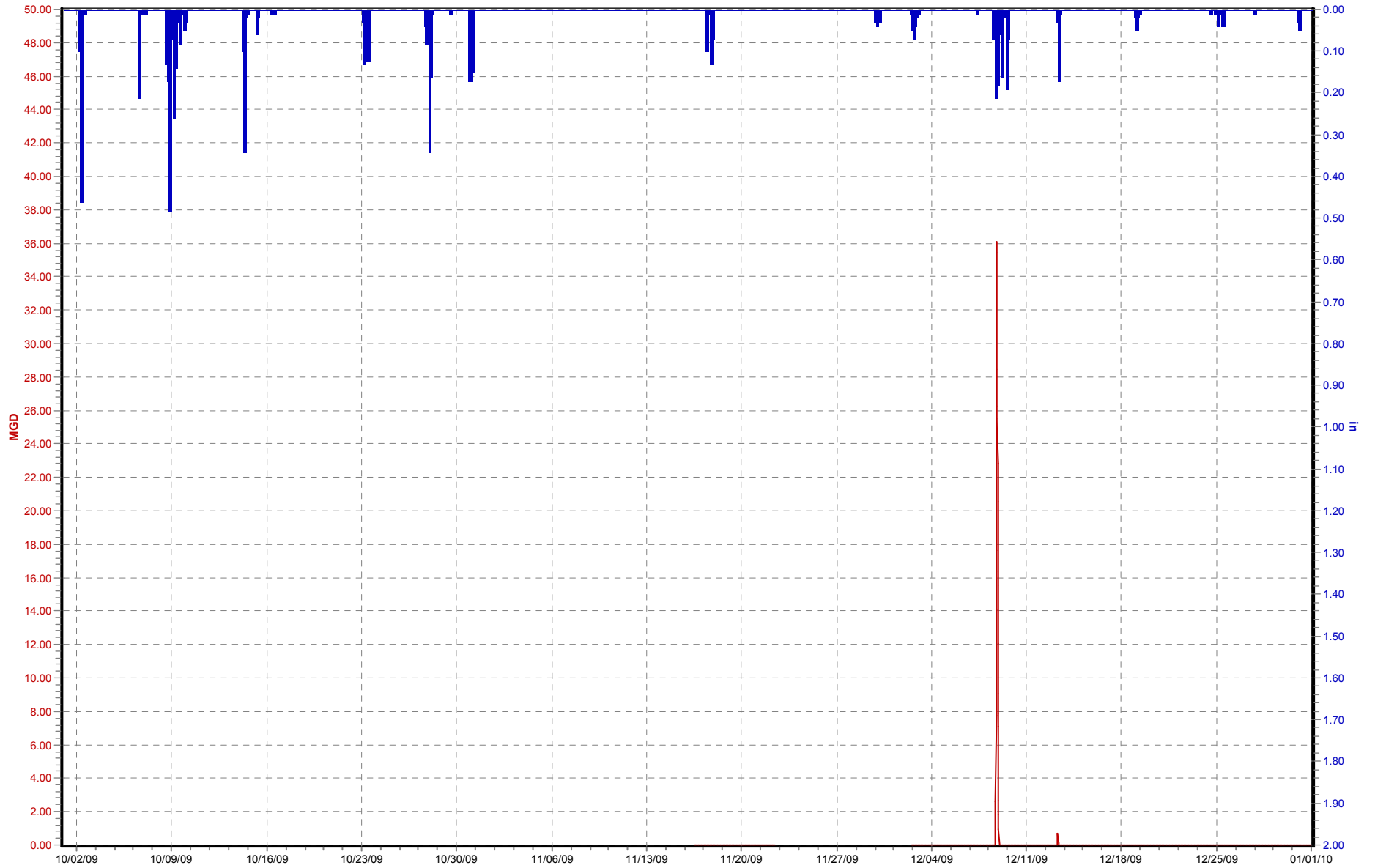
CSO097 (10/01/09 to 01/01/10)

Flow (MGD)  TR12.Hourly Rain Totals (in)



CSO105 (10/01/09 to 01/01/10)

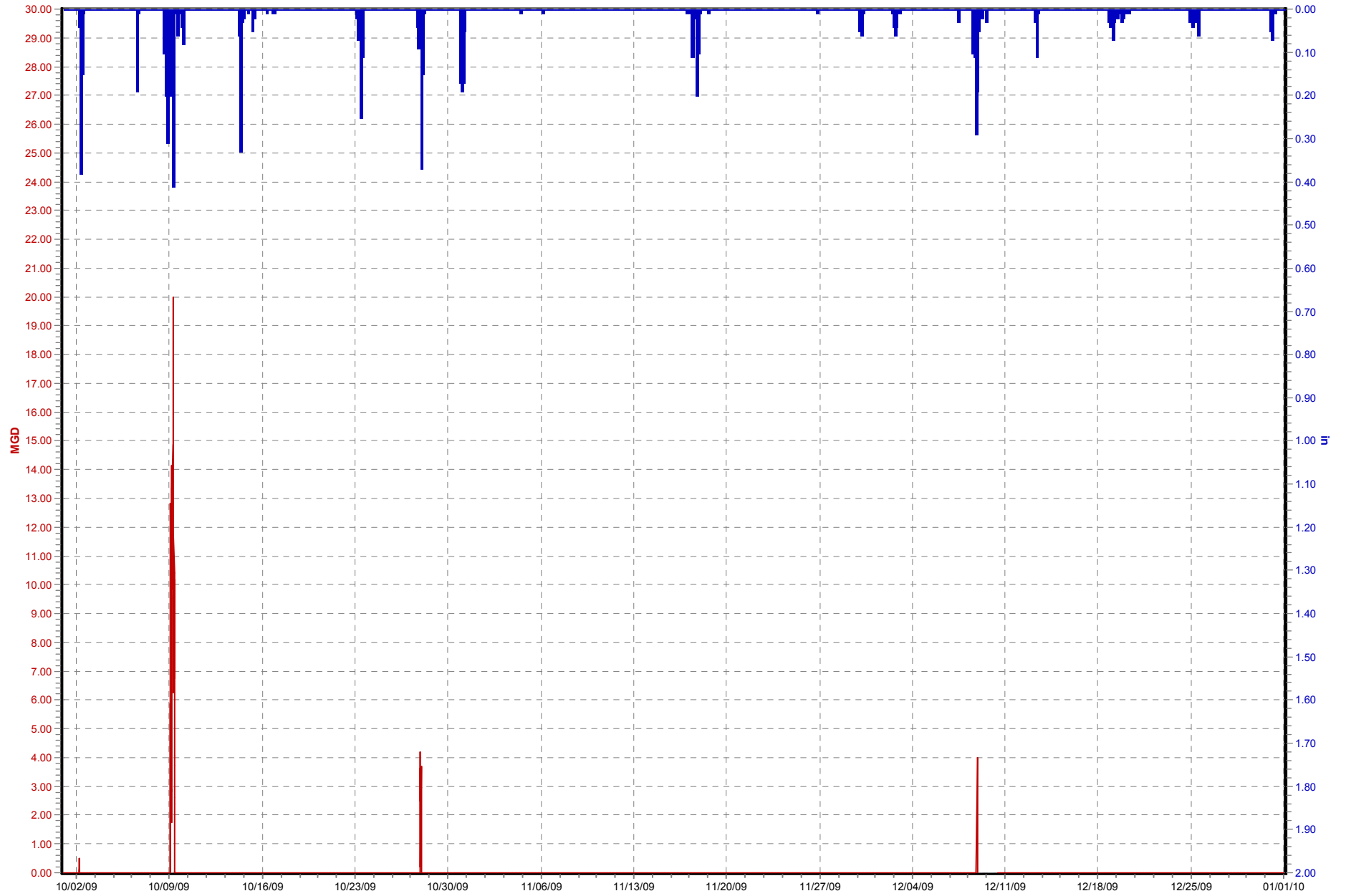
Flow 1 (MGD)  TR04.Hourly Rain Totals (in)



Flow Meter Installed on 11/18/2009. Configuration problems existed until 12/02/2009.

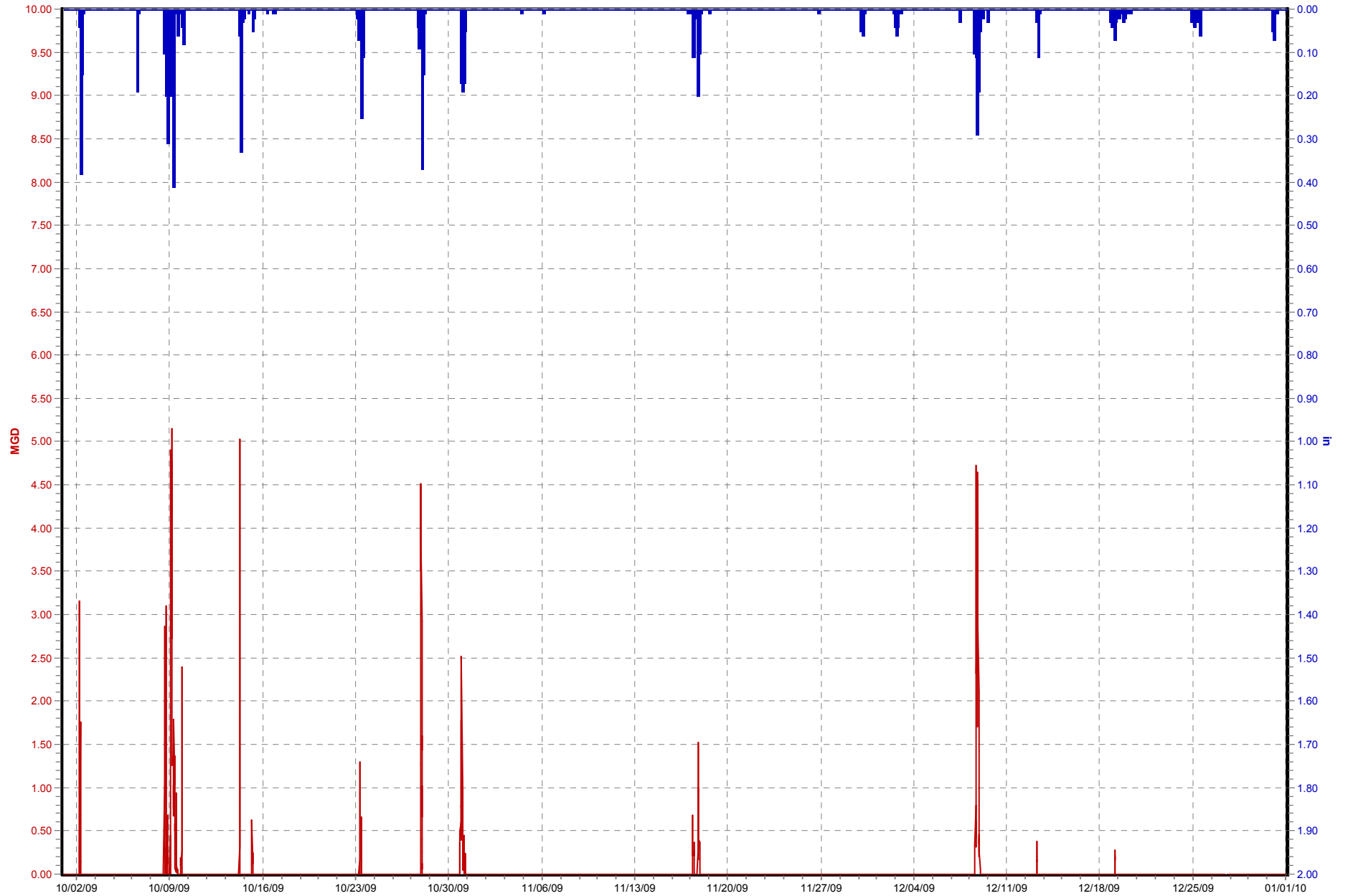
### CSO108 (10/01/09 to 01/01/10)

Flow 1 (MGD)     TR12.Hourly Rain Totals (in)



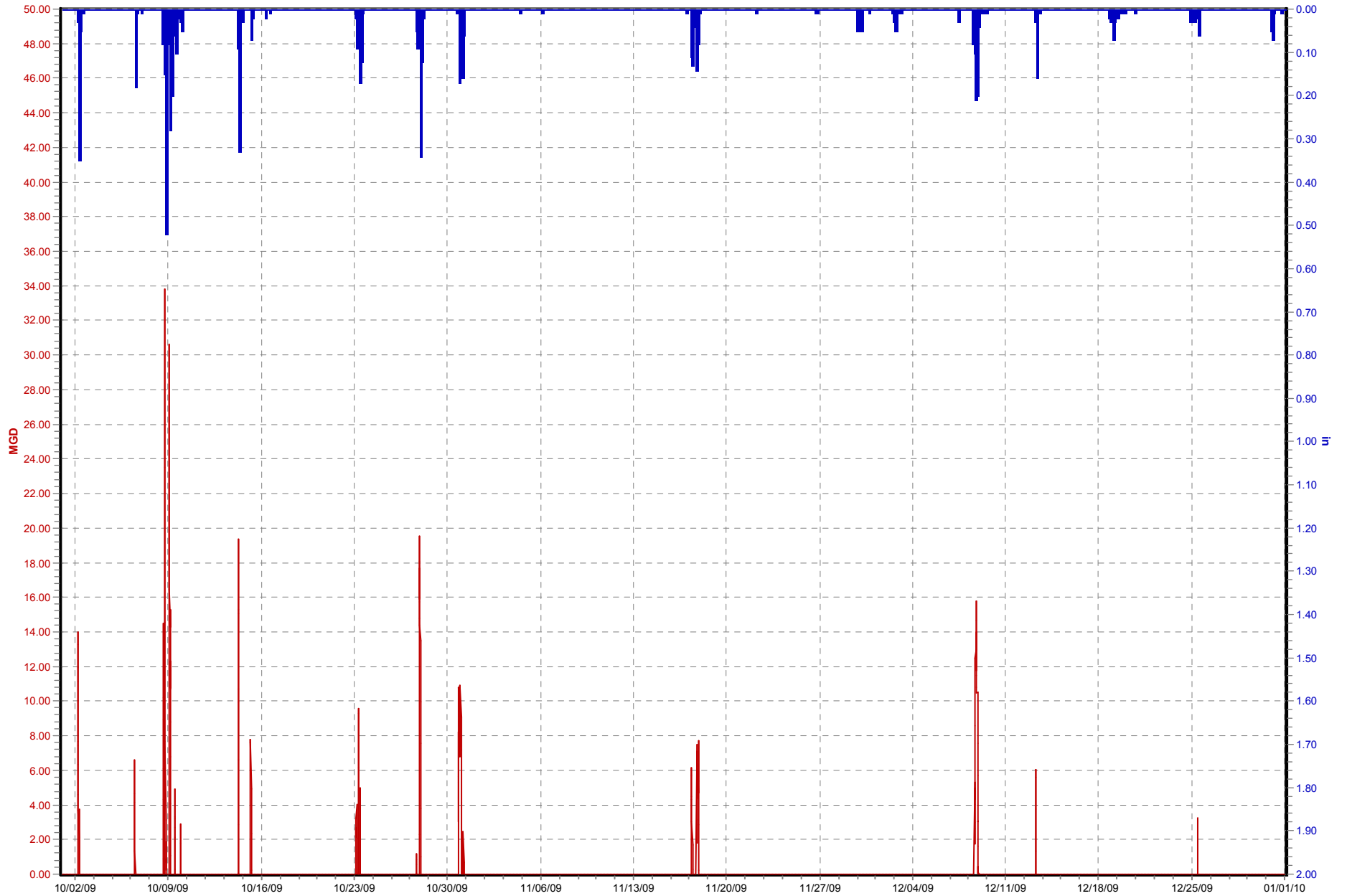
### CSO110 (10/01/09 to 01/01/10)

Flow 1 (MGD)     TR12.Hourly Rain Totals (in)



CSO117 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR05.Hourly Rain Totals (in)



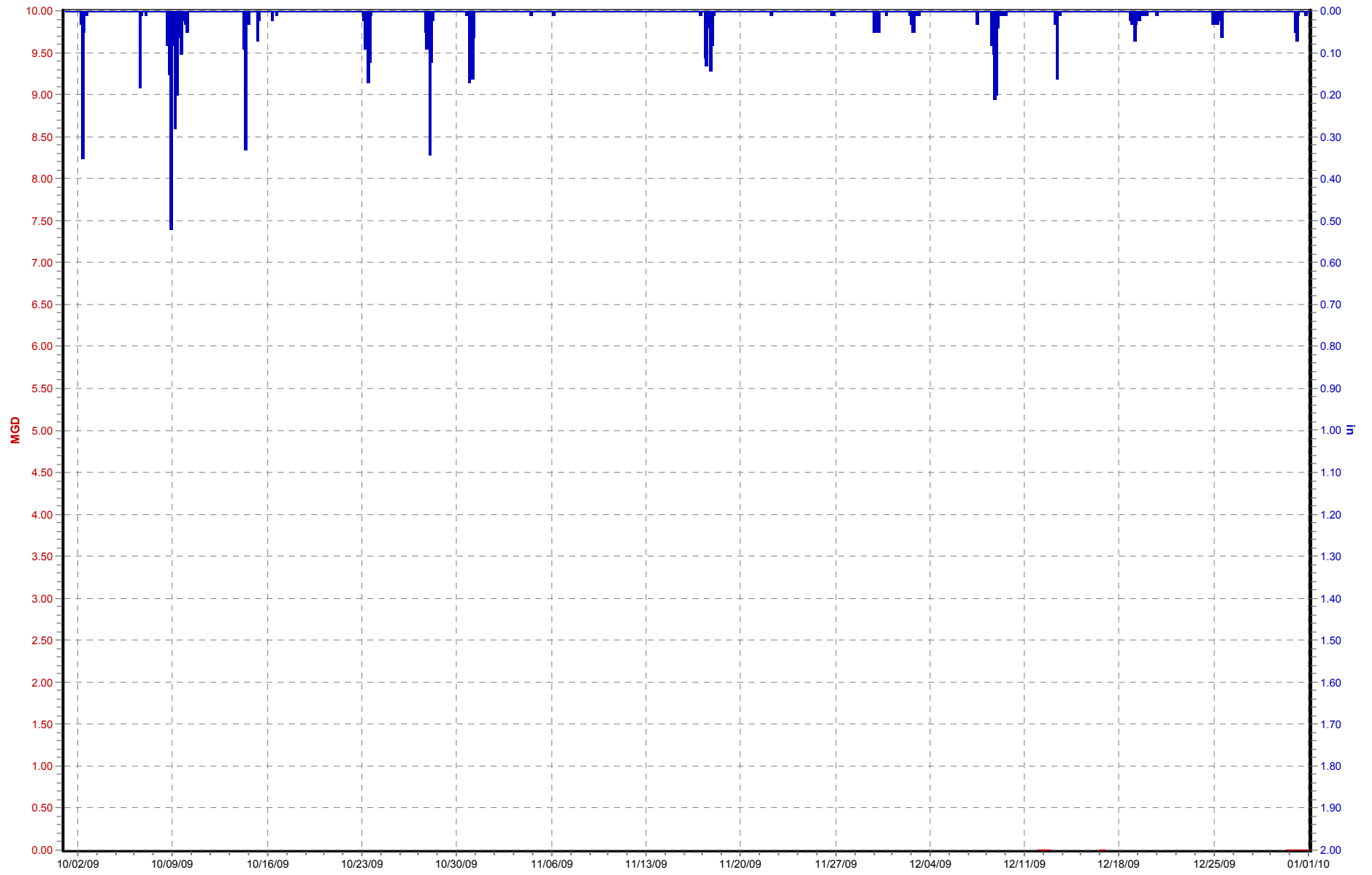
### CSO118 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR05.Hourly Rain Totals (in)



### CSO121 (10/01/09 to 01/01/10)

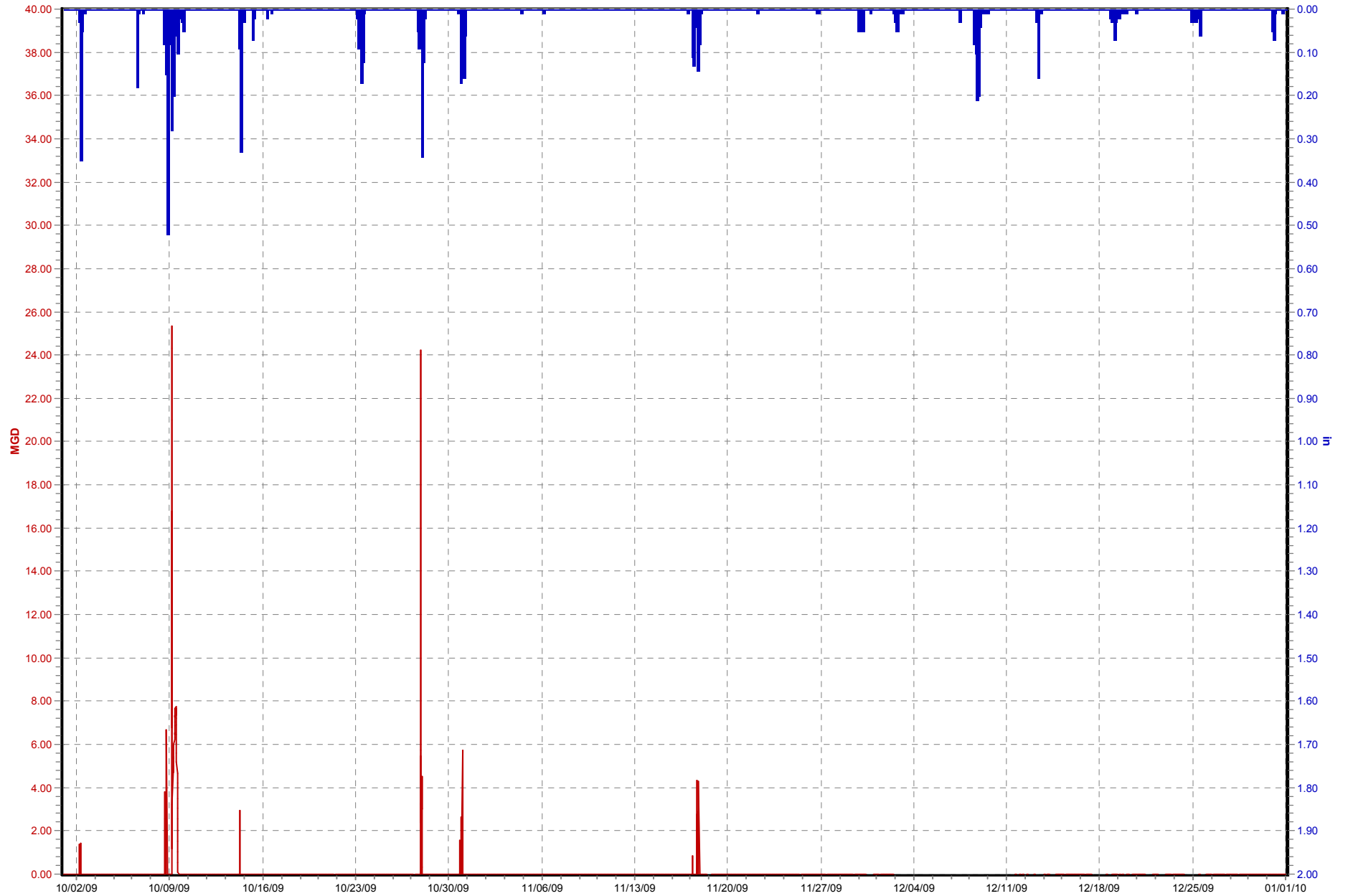
Flow 1 (MGD)       TR05 - Historical Data Only.Hourly Rain Totals (in)



Flow meter installed on 11/20/2009. Configuration problems existed until 12/30/2009.

### CSO125 (10/01/09 to 01/01/10)

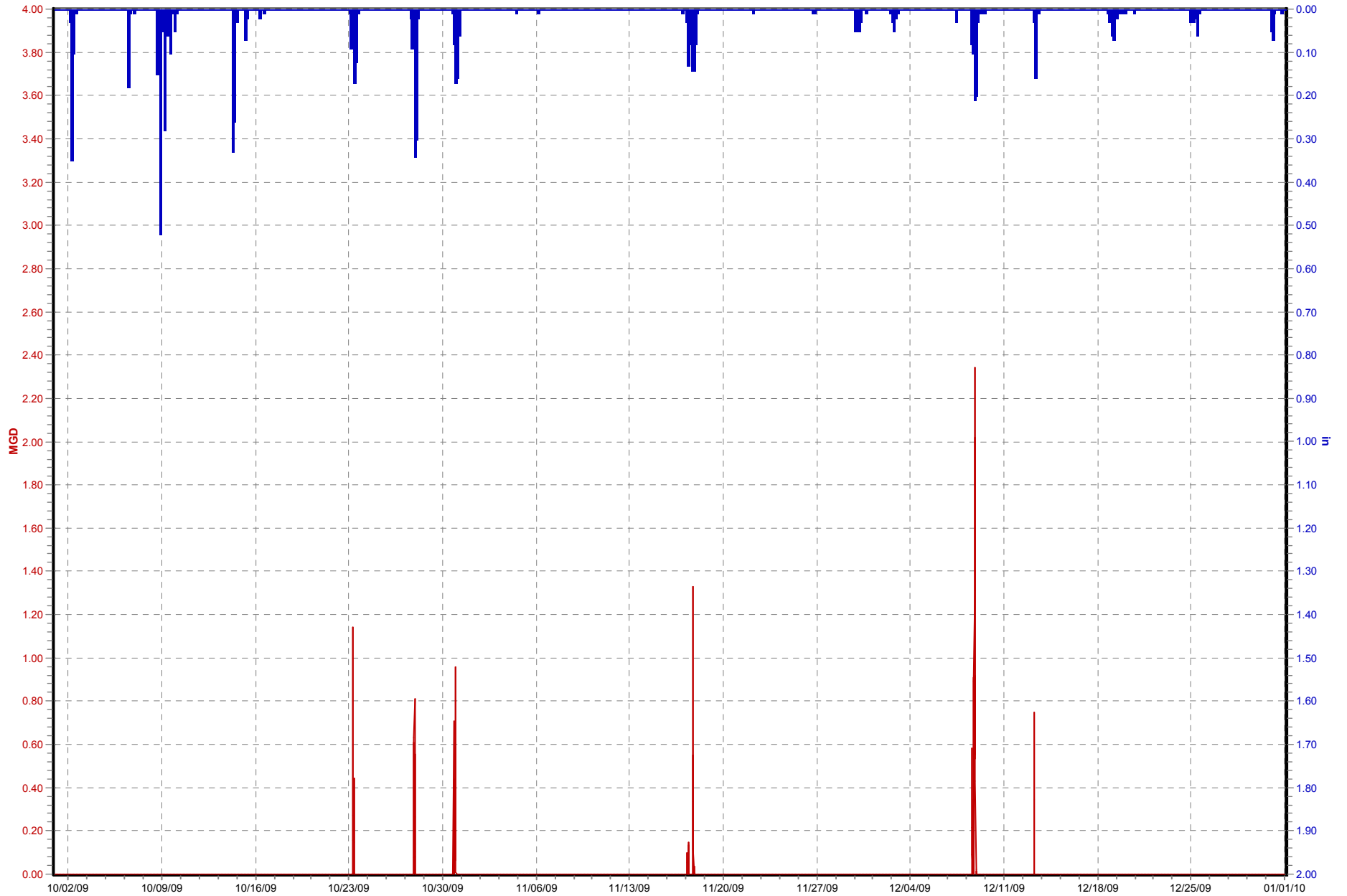
Flow 1 (MGD)  TR05.Hourly Rain Totals (in)





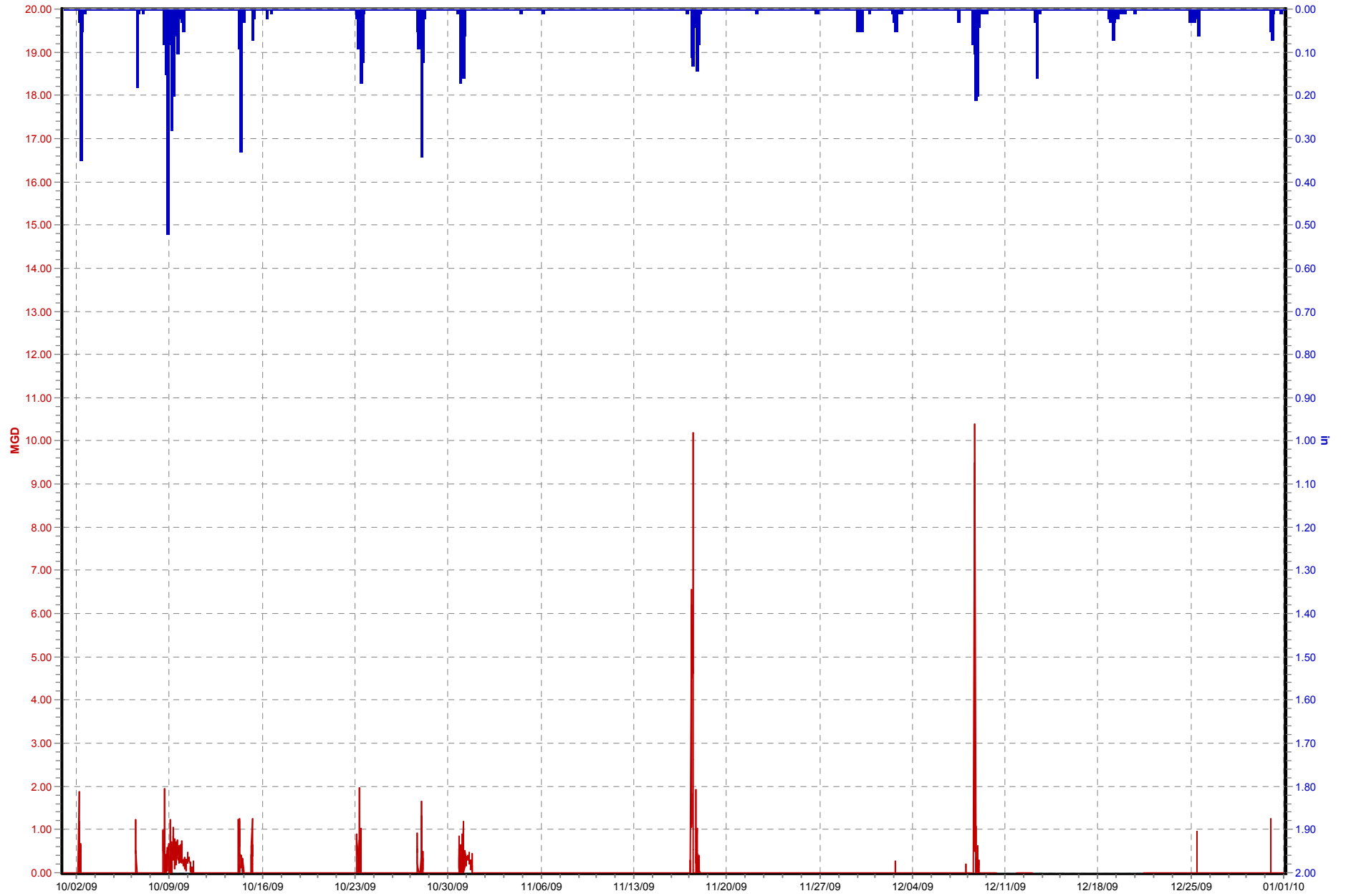
CSO127 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR05.Hourly Rain Totals (in)



CSO132 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR05.Hourly Rain Totals (in)



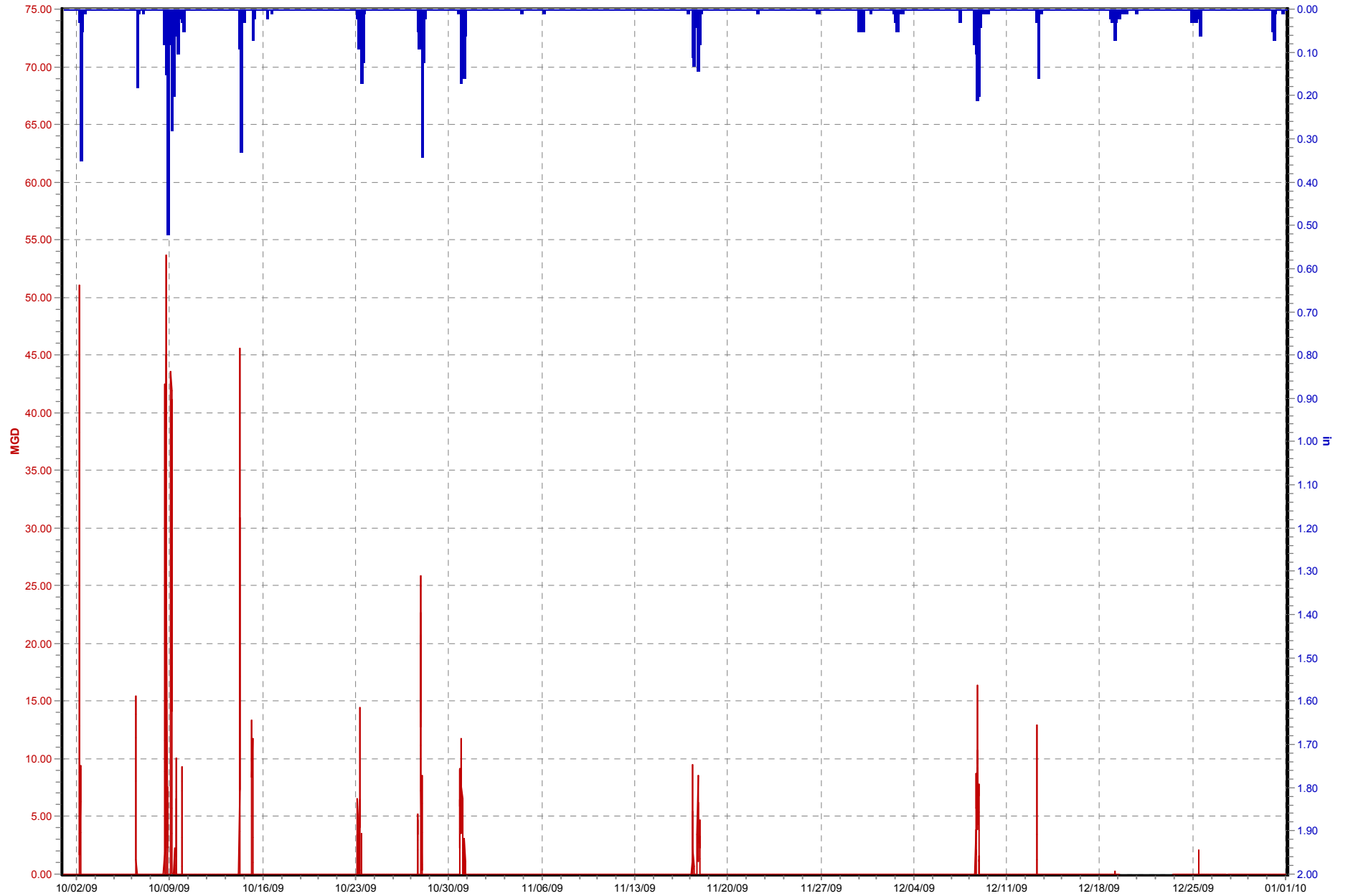
### CSO140 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR05.Hourly Rain Totals (in)



### CSO146 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR05.Hourly Rain Totals (in)



### CSO149 (10/01/09 to 01/01/10)

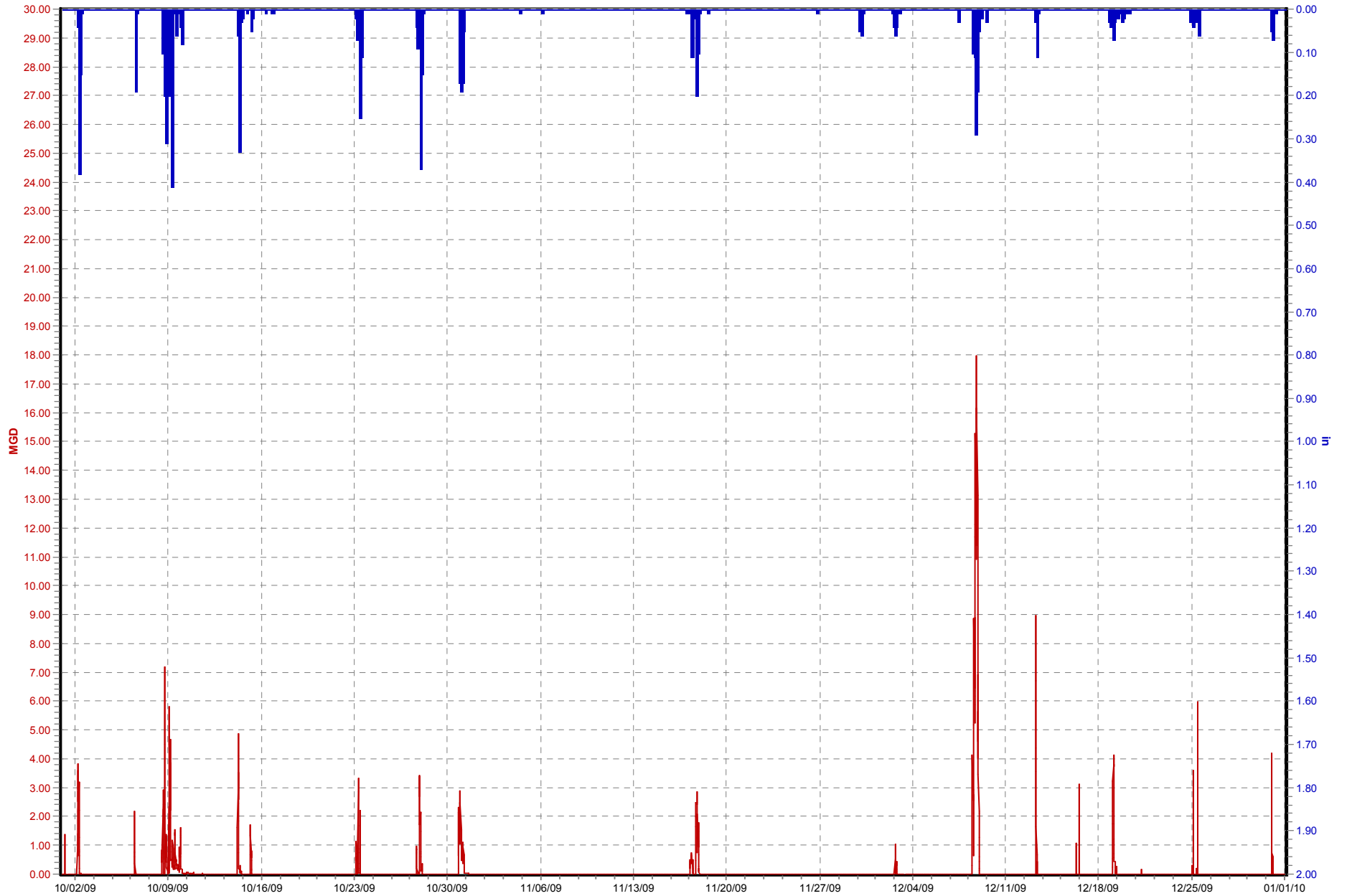
Flow 1 (MGD)       TR05 - Historical Data Only.Hourly Rain Totals (in)



Flow Meter Installed on 11/17/2009. Configuration problems existed until 12/02/2009.

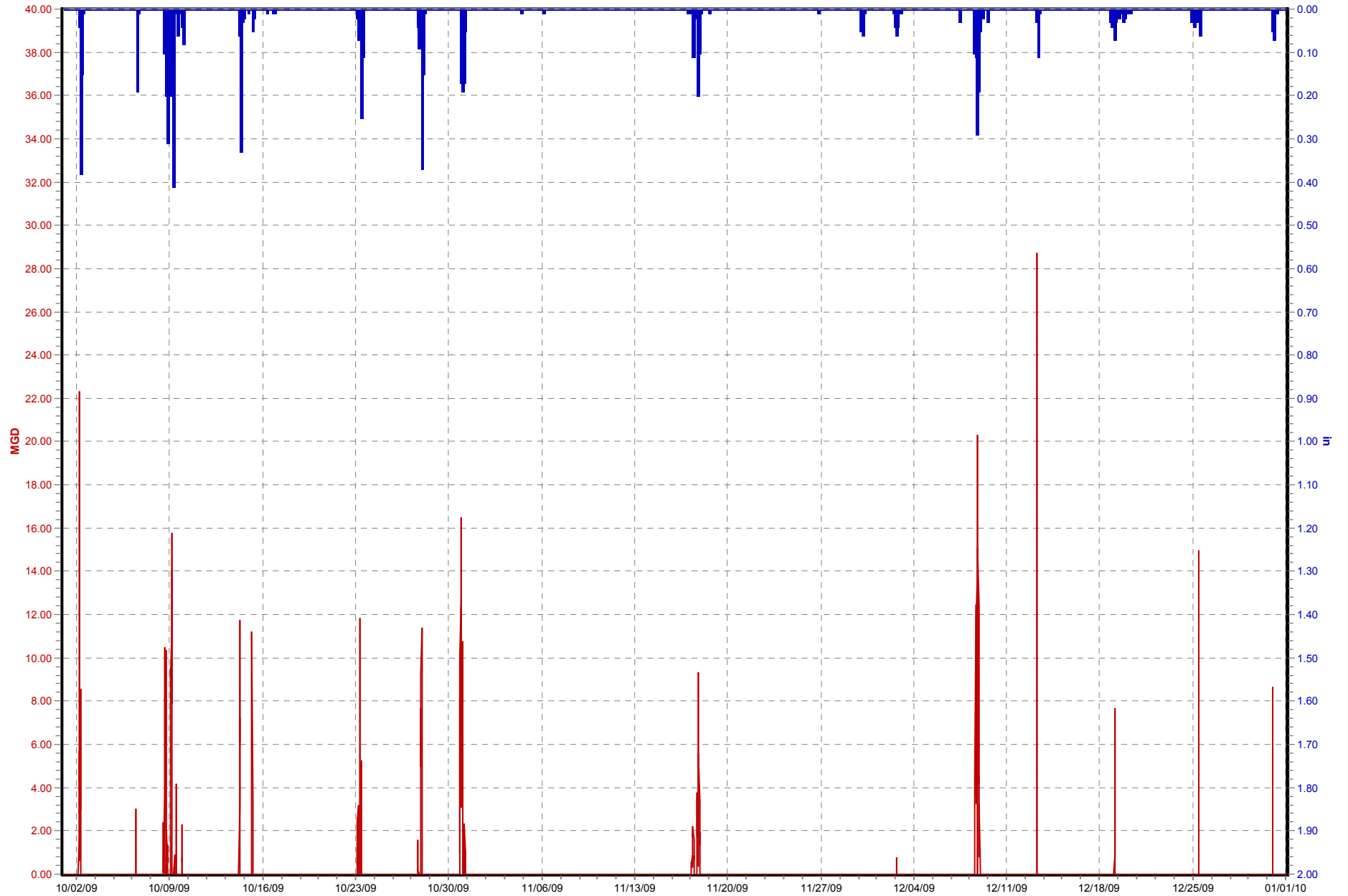
CSO151 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR12.Hourly Rain Totals (in)



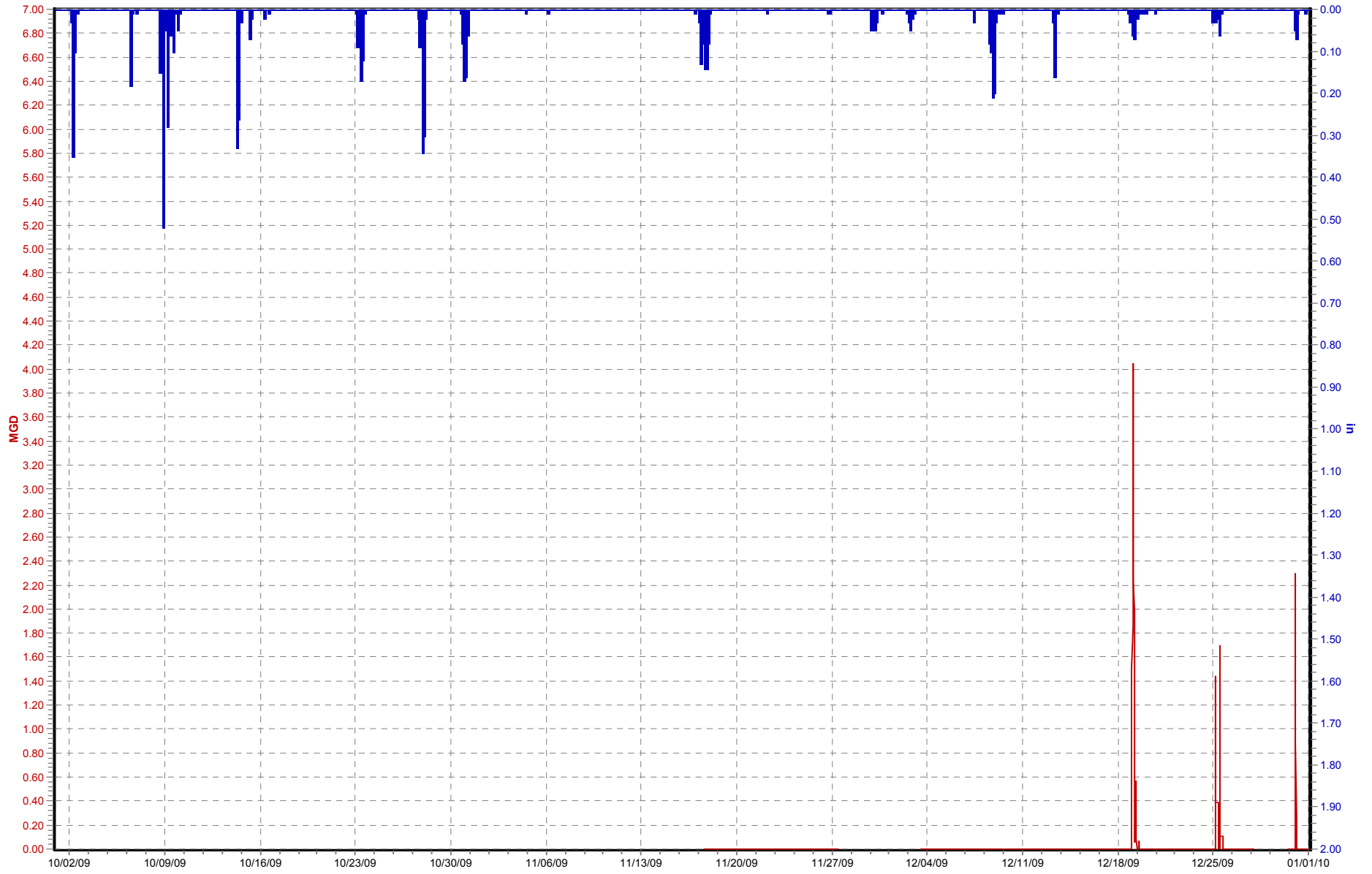
### CSO152 (10/01/09 to 01/01/10)

Flow 1 (MGD)     TR12.Hourly Rain Totals (in)



CSO153 (10/01/09 to 01/01/10)

Flodar Flow (MGD)  TR05.Hourly Rain Totals (in)



Flow Meter Installed on 11/17/2009. Configuration problems existed until 12/3/2009.



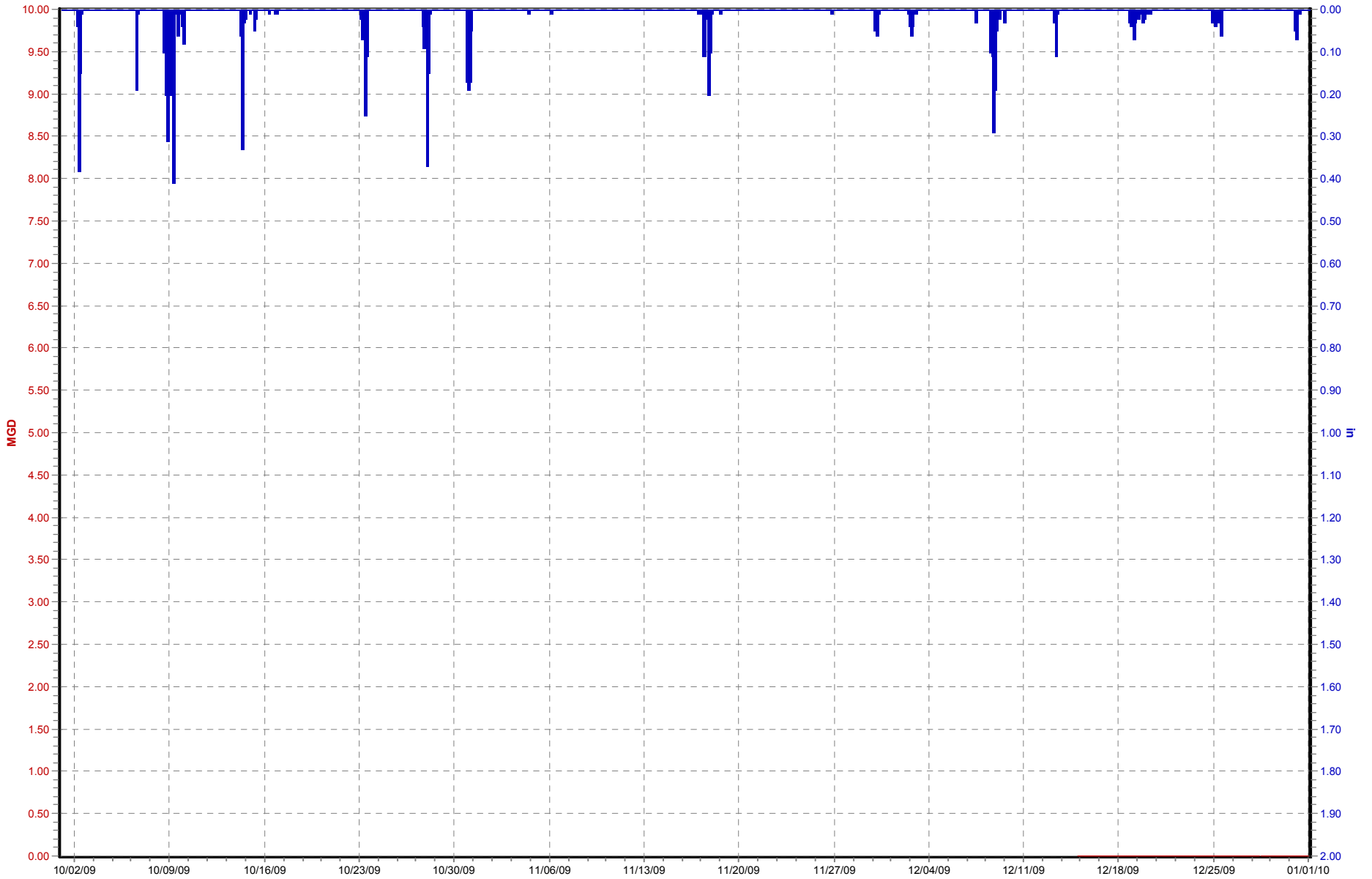
CSO166 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR05.Hourly Rain Totals (in)



### CSO174 (10/01/09 to 01/01/10)

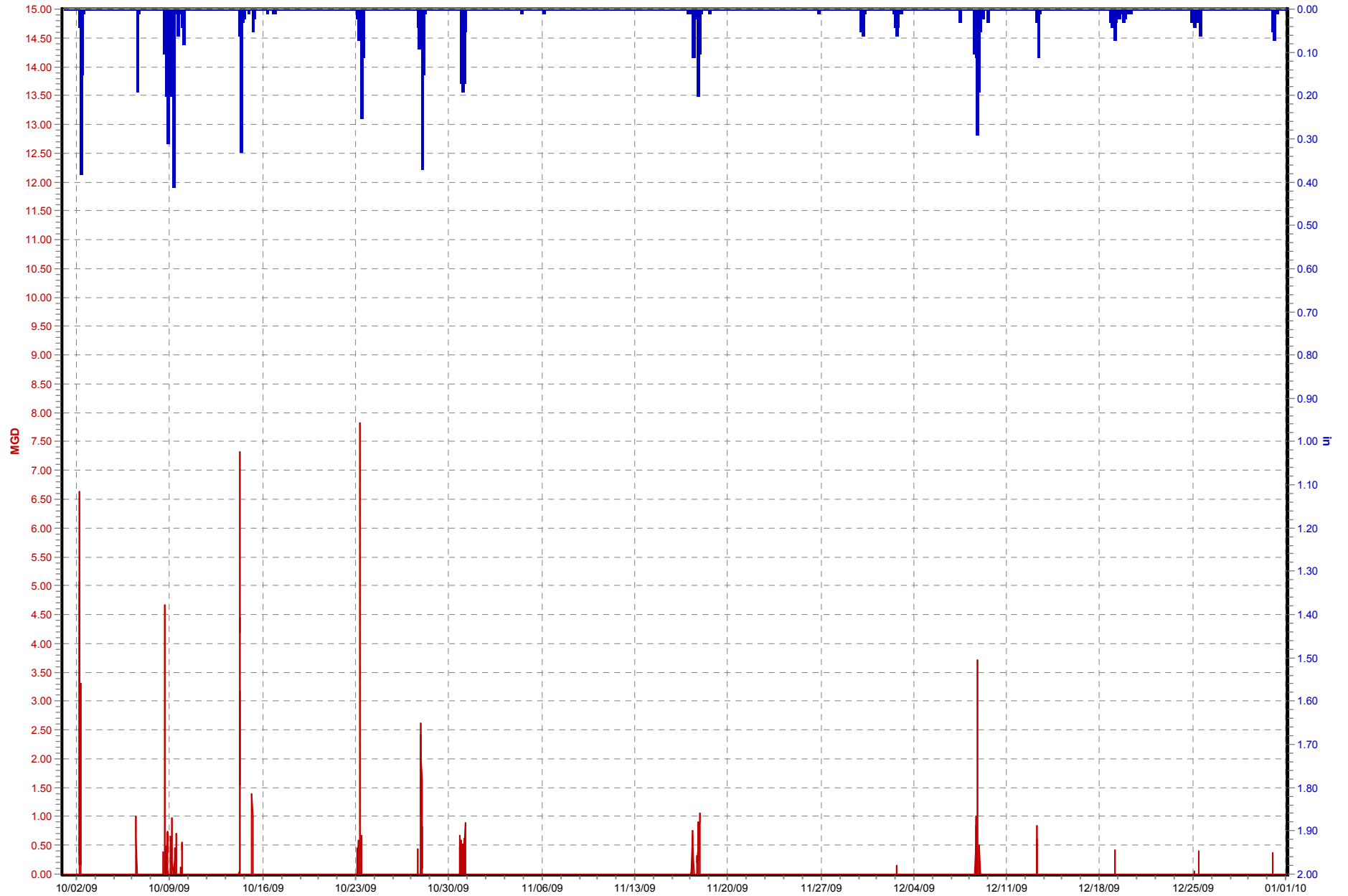
Flow 1 (MGD)     TR12.Hourly Rain Totals (in)



Flow Meter Installed in November of 2009. Configuration problems existed until 12/15/2009.

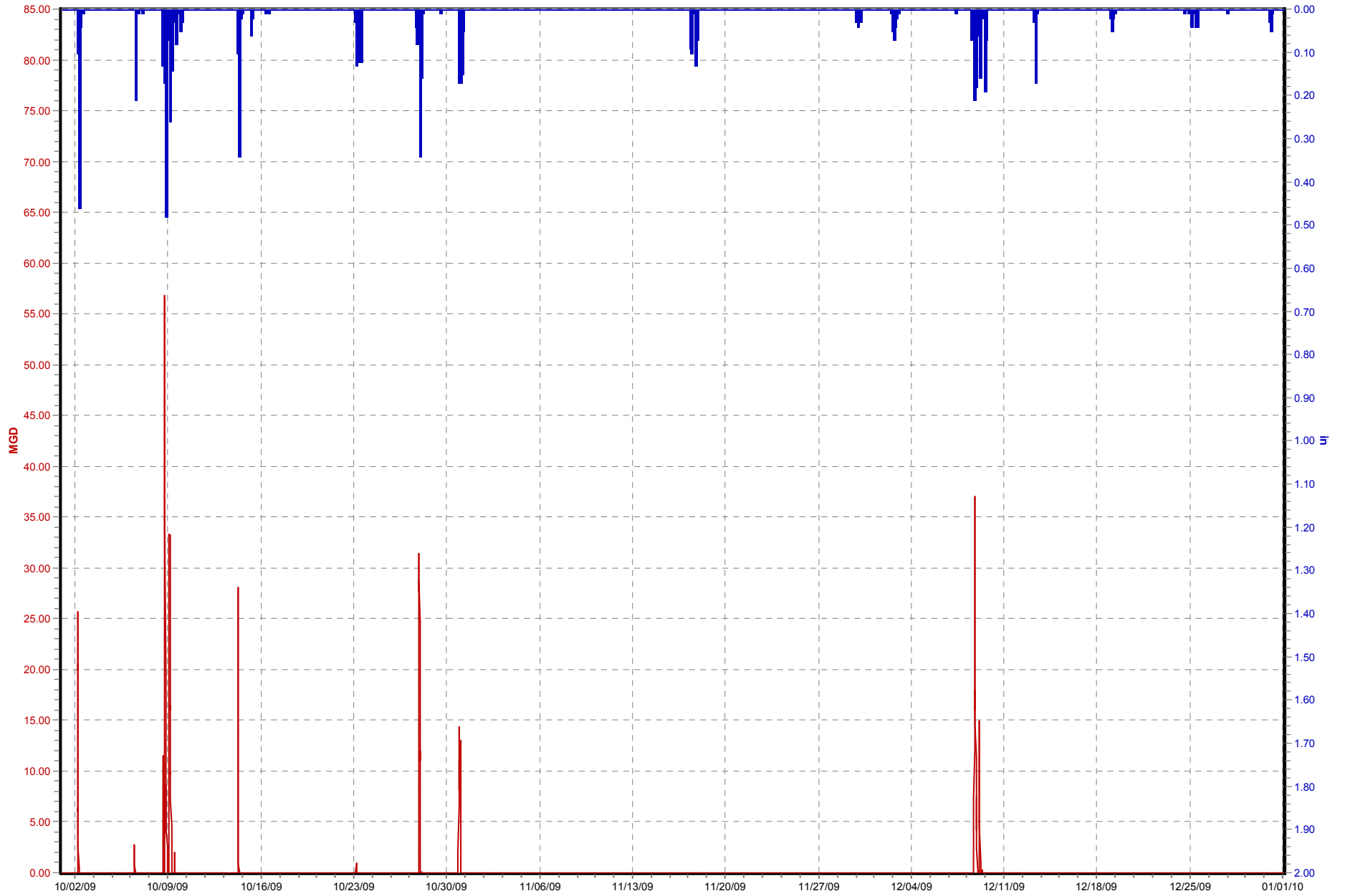
### CSO182 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR12.Hourly Rain Totals (in)



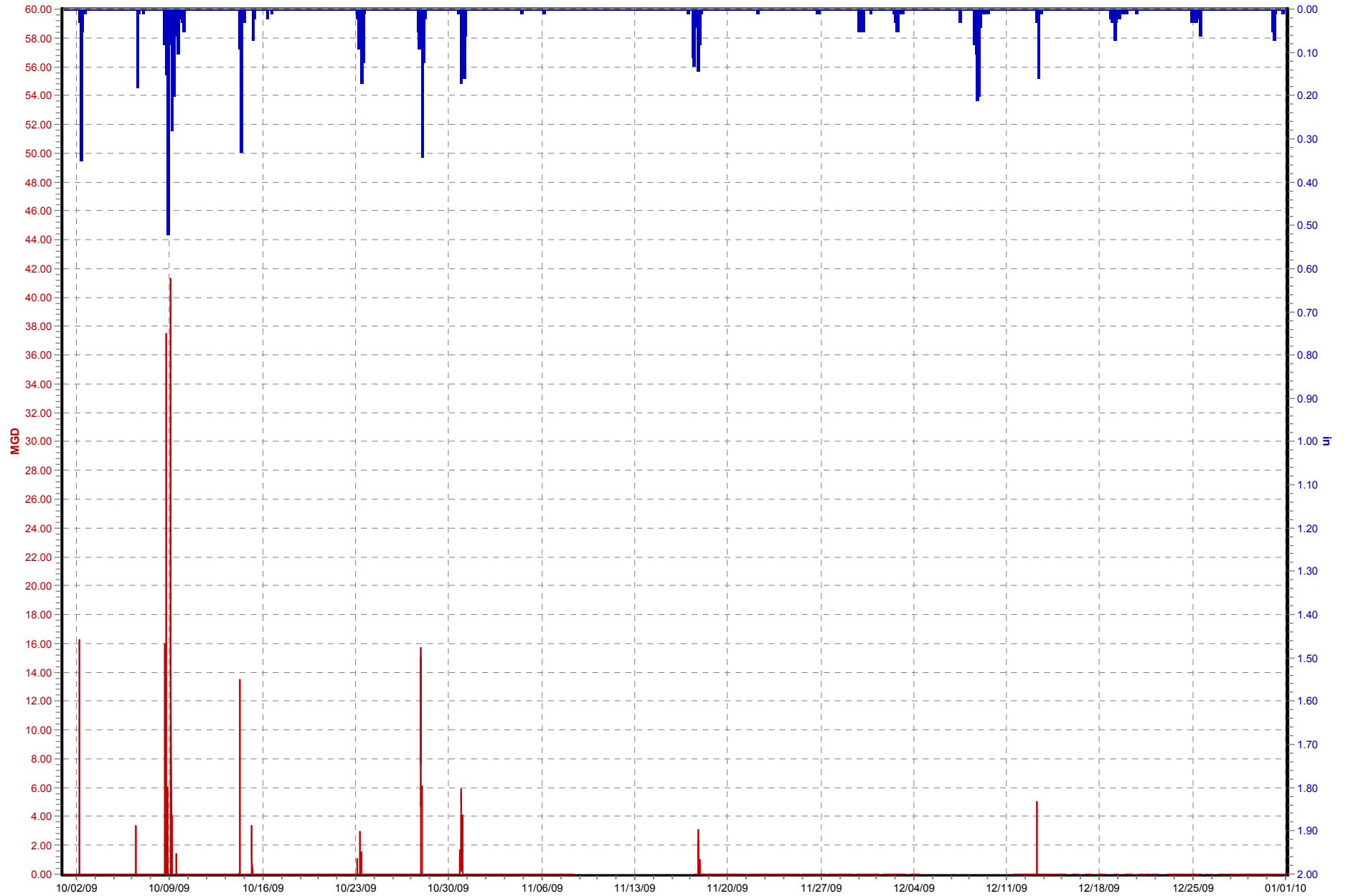
CSO189 (10/01/09 to 01/01/10)

Flow 1 (MGD)  TR04.Hourly Rain Totals (in)



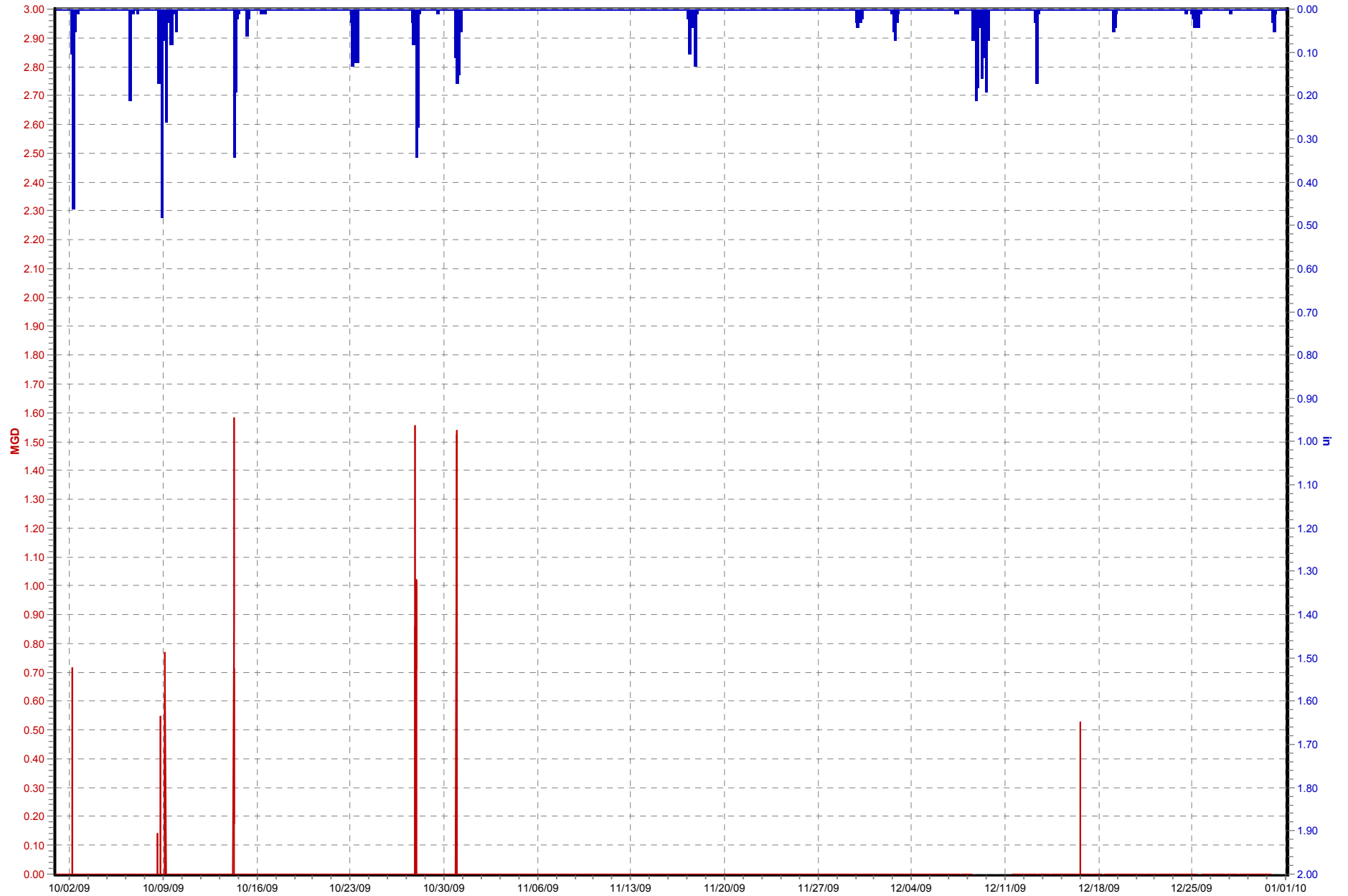
### CSO190 (10/01/09 to 01/01/10)

Flow 1 (MGD)     TR05.Hourly Rain Totals (in)



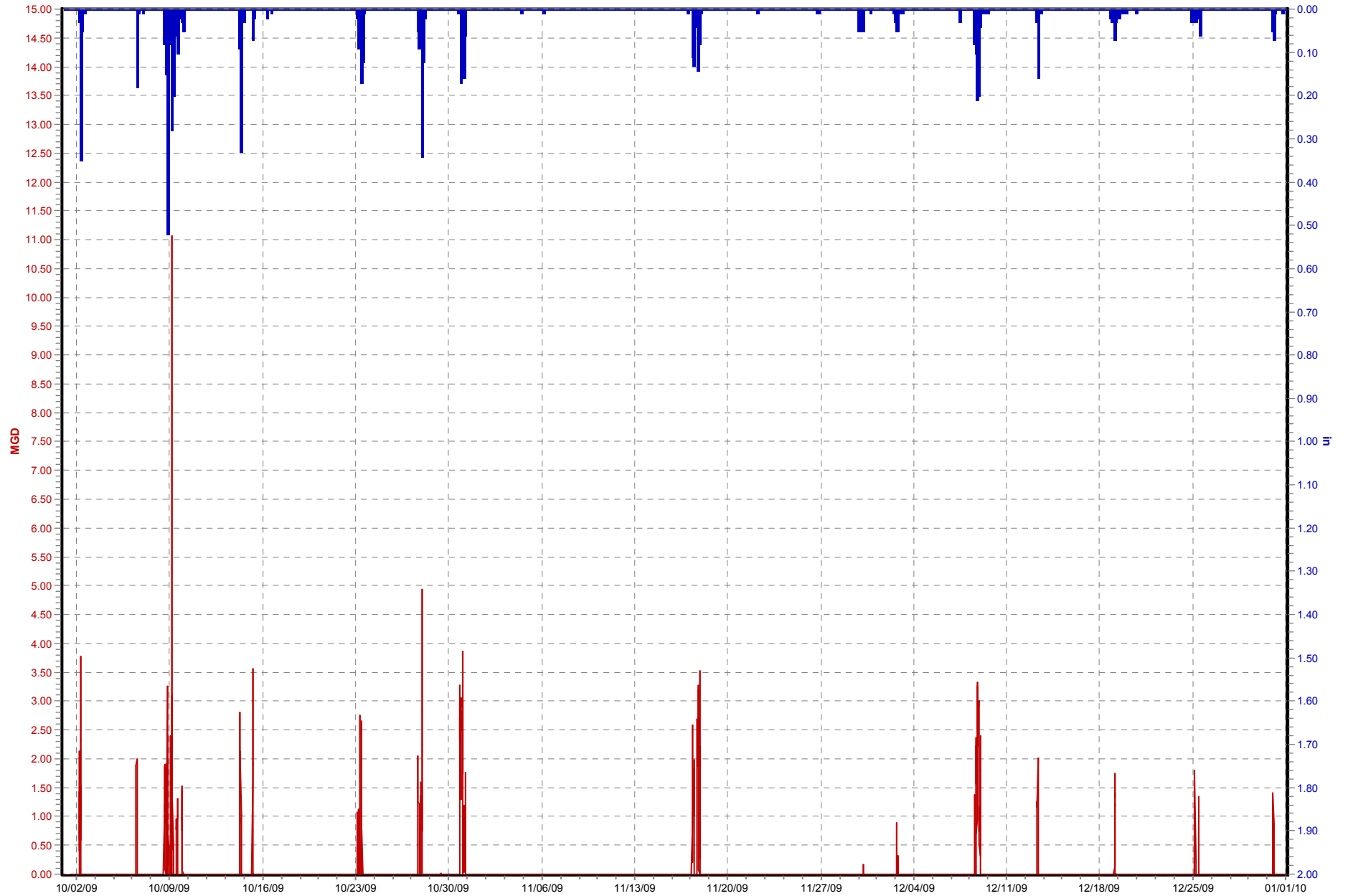
### CSO191 (10/01/09 to 01/01/10)

Flow 1 (MGD)     TR04.Hourly Rain Totals (in)



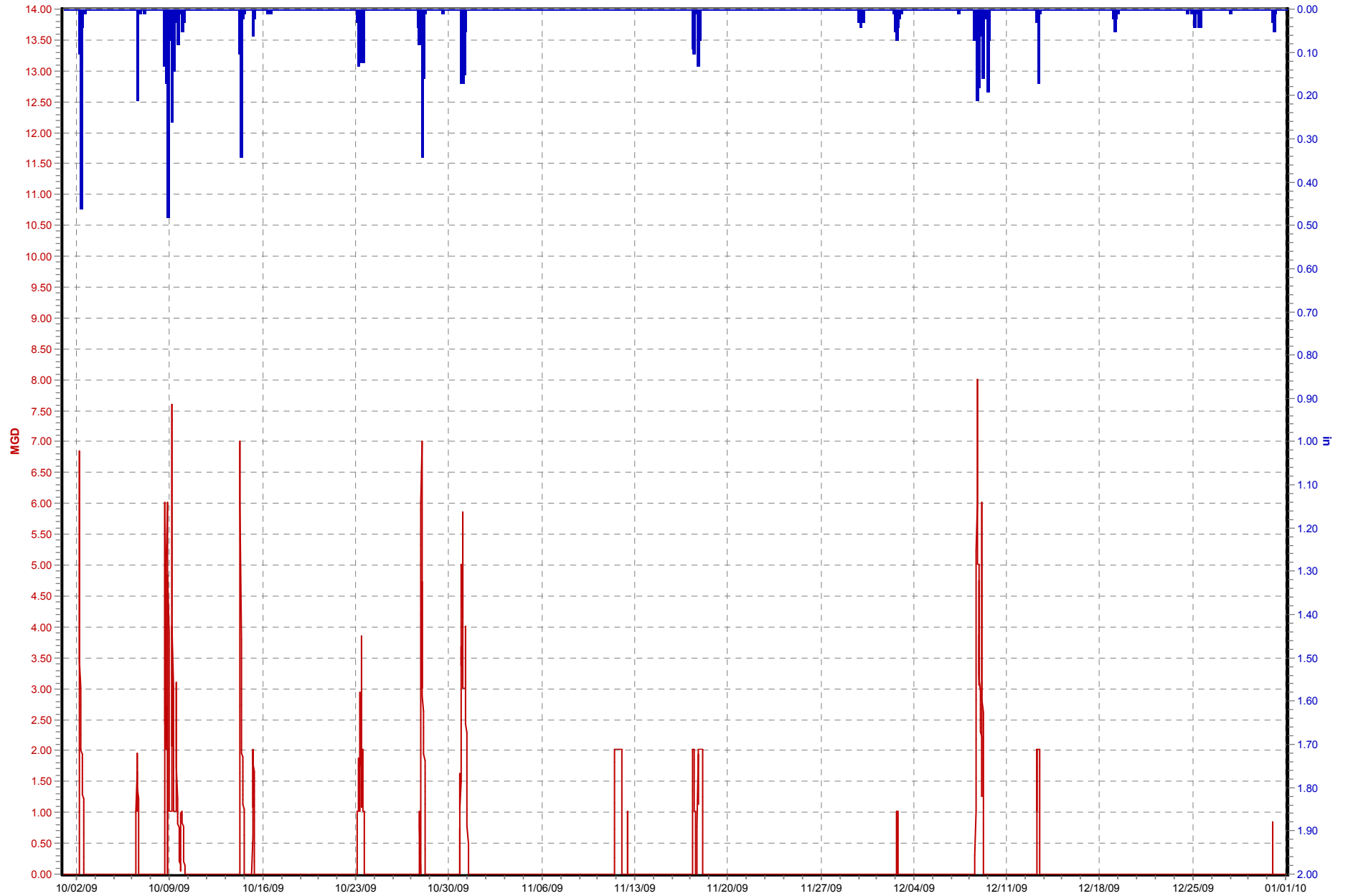
CSO206 (10/01/09 to 01/01/10)

Flow (MGD)  TR05 - Historical Data Only.Hourly Rain Totals (in)



### CSO210 (10/01/09 to 01/01/10)

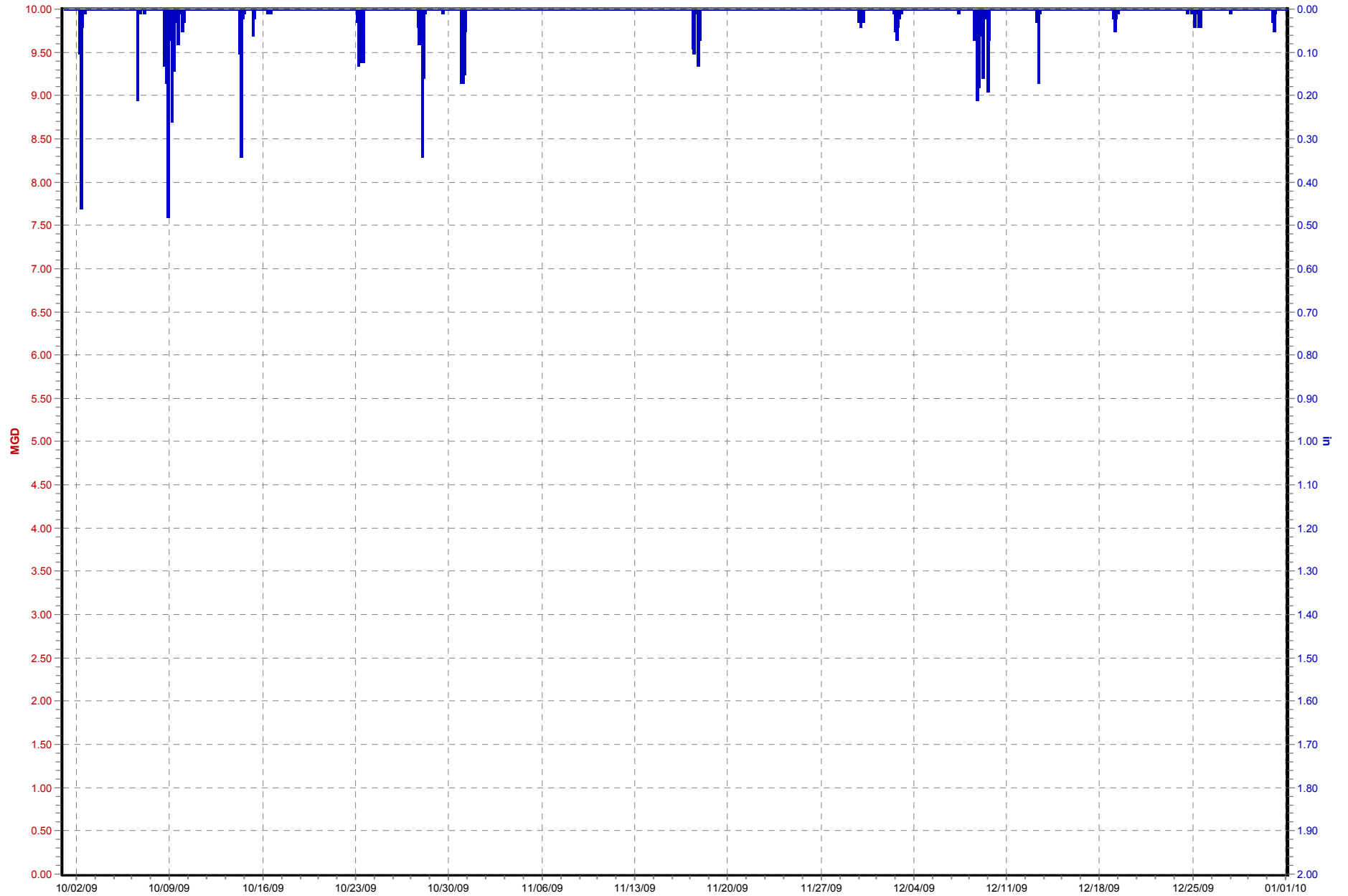
Flow (MGD)       TR04.Hourly Rain Totals (in)





CSO211 (10/01/09 to 01/01/10)

CSO211 (MGD)  TR04.Hourly Rain Totals (in)



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 System
IOAP	Integrated Overflow Abatement Plan
ISSDP	Interim Sanitary Sewer Discharge Plan
IT	Information Technology
IWD	Industrial Waste Department
JCPS	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
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 :	10/1/09
To :	12/31/09

Event Number	Wet Weather Event			Rainfall			Wet Weather Storage Volume (MG)							High River Levels
	Start Date	End Date	Duration	Average* TRFD (in)	Max**		SWPS SG Chamber	SWOR2	Brady Lake and Executive Inn Storage	Southern Outfall	Ohio River Interceptor	Sneads Branch	Total	
					TRFD (in)	Rain Gauge								
2009-082	10/2/09 2:45	10/2/09 23:05	20:20	1.043	1.360	TR15	14.25	0.00	2.10	0.00	0.00	0.00	16.35	No
2009-083	10/6/09 9:45	10/6/09 19:05	9:20	0.220	0.260	TR04	3.30	0.00	0.10	0.00	0.00	0.00	3.40	No
2009-084	10/8/09 12:20	10/11/09 3:45	63:25	2.379	2.880	TR14	14.45	2.95	3.90	0.00	0.00	0.95	22.25	No
2009-085	10/14/09 4:50	10/15/09 3:30	22:40	0.747	0.810	TR14	12.00	1.75	1.70	0.00	0.00	0.00	15.45	No
2009-086	10/15/09 3:30	10/15/09 18:40	15:10	0.069	0.080	TR04	8.10	0.00	0.50	0.00	0.00	0.00	8.60	No
2009-087	10/23/09 0:00	10/23/09 22:50	22:50	0.666	0.960	TR15	15.50	3.00	0.00	0.00	0.00	0.00	18.50	No
2009-088	10/27/09 12:50	10/29/09 0:55	36:05	1.164	1.280	TR14	15.25	0.00	1.65	0.00	0.00	0.55	17.45	No
2009-089	10/30/09 18:30	11/1/09 8:15	37:45	1.100	1.260	TR15	14.70	0.00	1.15	0.00	0.00	0.00	15.85	No
2009-090	11/17/09 10:50	11/18/09 8:15	21:25	0.521	0.760	TR14	18.25	0.00	0.45	0.00	0.00	0.00	18.70	No
2009-093	12/8/09 11:15	12/10/09 1:30	38:15	1.410	1.720	TR04	12.55	10.25	0.45	0.00	0.00	0.60	23.85	No
2009-094	12/13/09 3:35	12/13/09 14:10	10:35	0.250	0.310	TR14	3.80	1.95	0.10	0.00	0.00	0.00	5.85	No
2009-095	12/18/09 17:35	12/20/09 5:35	36:00	0.537	0.710	TR14	1.05	2.90	0.10	0.00	0.00	0.00	4.05	No
2009-096	12/24/09 19:30	12/25/09 17:40	22:10	0.277	0.390	TR11	2.85	2.00	0.15	0.00	0.00	0.00	5.00	No
Total							136.05	24.80	12.35	0.00	0.00	2.10	175.30	

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

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

Appendix G – Phosphorus Data

**Timberlake Wastewater Treatment Plant KY0043087**  
**Quarterly Effluent Total Phosphorus Results**

SAMPLE DATE	TEST METHOD	PARAMETER	RESULT	UNIT	LABORATORY
10/5/2009	EPA 200.7	Total Phosphorous via ICP	0.361	mg/l	MSD
10/12/2009	EPA 200.7	Total Phosphorous via ICP	0.298	mg/l	MSD
10/19/2009	EPA 200.7	Total Phosphorous via ICP	0.344	mg/l	MSD
10/26/2009	EPA 200.7	Total Phosphorous via ICP	0.493	mg/l	MSD
Monthly Average			<b>0.37</b>	mg/l	
11/3/2009	EPA 200.7	Total Phosphorous via ICP	0.481	mg/l	MSD
11/10/2009	EPA 200.7	Total Phosphorous via ICP	0.379	mg/l	MSD
11/17/2009	EPA 200.7	Total Phosphorous via ICP	0.528	mg/l	MSD
11/24/2009	EPA 200.7	Total Phosphorous via ICP	0.633	mg/l	MSD
Monthly Average			<b>0.51</b>	mg/l	
12/2/2009	EPA 200.7	Total Phosphorous via ICP	0.734	mg/l	MSD
12/9/2009	EPA 200.7	Total Phosphorous via ICP	0.444	mg/l	MSD
12/16/2009	EPA 200.7	Total Phosphorous via ICP	0.338	mg/l	MSD
12/22/2009	EPA 200.7	Total Phosphorous via ICP	0.496	mg/l	MSD
12/29/2009	EPA 200.7	Total Phosphorous via ICP	0.666	mg/l	MSD
Monthly Average			<b>0.54</b>	mg/l	



## Hunting Creek South Wastewater Treatment Plant KY0029114 Quarterly Effluent Total Phosphorus Results

SAMPLE DATE	TEST METHOD	PARAMETER	RESULT	UNIT	LABORATORY
10/5/2009	EPA 200.7	Total Phosphorous via ICP	0.416	mg/l	MSD
10/12/2009	EPA 200.7	Total Phosphorous via ICP	0.368	mg/l	MSD
10/19/2009	EPA 200.7	Total Phosphorous via ICP	0.525	mg/l	MSD
10/26/2009	EPA 200.7	Total Phosphorous via ICP	0.351	mg/l	MSD
Monthly Average			<b>0.42</b>	mg/l	
11/3/2009	EPA 200.7	Total Phosphorous via ICP	0.375	mg/l	MSD
11/10/2009	EPA 200.7	Total Phosphorous via ICP	0.668	mg/l	MSD
11/17/2009	EPA 200.7	Total Phosphorous via ICP	0.384	mg/l	MSD
11/24/2009	EPA 200.7	Total Phosphorous via ICP	0.27	mg/l	MSD
Monthly Average			<b>0.42</b>	mg/l	
12/2/2009	EPA 200.7	Total Phosphorous via ICP	0.453	mg/l	MSD
12/9/2009	EPA 200.7	Total Phosphorous via ICP	0.399	mg/l	MSD
12/16/2009	EPA 200.7	Total Phosphorous via ICP	0.34	mg/l	MSD
12/22/2009	EPA 200.7	Total Phosphorous via ICP	0.466	mg/l	MSD
12/29/2009	EPA 200.7	Total Phosphorous via ICP	0.37	mg/l	MSD
Monthly Average			<b>0.41</b>	mg/l	

## Ken Carla Wastewater Treatment Plant KY0022497 Quarterly Effluent Total Phosphorus Results

SAMPLE DATE	TEST METHOD	PARAMETER	RESULT	UNIT	LABORATORY
10/5/2009	EPA 200.7	Total Phosphorous via ICP	0.28	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	<b>0.28</b>	mg/l	
11/3/2009	EPA 200.7	Total Phosphorous via ICP	1.44	mg/l	MSD
11/17/2009	EPA 200.7	Total Phosphorous via ICP	0.326	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	<b>0.88</b>	mg/l	
12/2/2009	EPA 200.7	Total Phosphorous via ICP	0.36	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	<b>0.36</b>	mg/l	

## North Hunting Creek Wastewater Treatment Plant KY0029106 Quarterly Effluent Total Phosphorus Results

SAMPLE DATE	TEST METHOD	PARAMETER	RESULT	UNIT	LABORATORY
10/5/2009	EPA 200.7	Total Phosphorous via ICP	0.543	mg/l	MSD
10/12/2009	EPA 200.7	Total Phosphorous via ICP	0.434	mg/l	MSD
10/19/2009	EPA 200.7	Total Phosphorous via ICP	0.463	mg/l	MSD
10/26/2009	EPA 200.7	Total Phosphorous via ICP	0.137	mg/l	MSD
Monthly Average			<b>0.39</b>	mg/l	
11/3/2009	EPA 200.7	Total Phosphorous via ICP	0.564	mg/l	MSD
11/10/2009	EPA 200.7	Total Phosphorous via ICP	0.397	mg/l	MSD
11/17/2009	EPA 200.7	Total Phosphorous via ICP	0.683	mg/l	MSD
11/24/2009	EPA 200.7	Total Phosphorous via ICP	0.504	mg/l	MSD
Monthly Average			<b>0.54</b>	mg/l	
12/2/2009	EPA 200.7	Total Phosphorous via ICP	1.27	mg/l	MSD
12/9/2009	EPA 200.7	Total Phosphorous via ICP	0.847	mg/l	MSD
12/16/2009	EPA 200.7	Total Phosphorous via ICP	1.13	mg/l	MSD
12/22/2009	EPA 200.7	Total Phosphorous via ICP	1.22	mg/l	MSD
12/29/2009	EPA 200.7	Total Phosphorous via ICP	0.508	mg/l	MSD
12/31/2009	EPA 200.7	Total Phosphorous via ICP	0.851	mg/l	MSD
Monthly Average			<b>0.97</b>	mg/l	

## Shadow Wood Wastewater Treatment Plant KY0031810 Quarterly Effluent Total Phosphorus Results

SAMPLE DATE	TEST METHOD	PARAMETER	RESULT	UNIT	LABORATORY
10/5/2009	EPA 200.7	Total Phosphorous via ICP	0.322	mg/l	MSD
10/12/2009	EPA 200.7	Total Phosphorous via ICP	0.406	mg/l	MSD
10/19/2009	EPA 200.7	Total Phosphorous via ICP	0.567	mg/l	MSD
10/26/2009	EPA 200.7	Total Phosphorous via ICP	0.549	mg/l	MSD
Monthly Average			<b>0.46</b>	mg/l	
11/3/2009	EPA 200.7	Total Phosphorous via ICP	0.491	mg/l	MSD
11/10/2009	EPA 200.7	Total Phosphorous via ICP	0.413	mg/l	MSD
11/17/2009	EPA 200.7	Total Phosphorous via ICP	0.434	mg/l	MSD
11/24/2009	EPA 200.7	Total Phosphorous via ICP	0.324	mg/l	MSD
Monthly Average			<b>0.42</b>	mg/l	
12/2/2009	EPA 200.7	Total Phosphorous via ICP	0.471	mg/l	MSD
12/9/2009	EPA 200.7	Total Phosphorous via ICP	0.592	mg/l	MSD
12/16/2009	EPA 200.7	Total Phosphorous via ICP	0.676	mg/l	MSD
12/22/2009	EPA 200.7	Total Phosphorous via ICP	0.701	mg/l	MSD
12/29/2009	EPA 200.7	Total Phosphorous via ICP	0.618	mg/l	MSD
Monthly Average			<b>0.61</b>	mg/l	

Appendix H – Project WIN Interpretive Signs



# CLEAN WATER

IS A COMMUNITY RESPONSIBILITY

# WHAT HAPPENS WHEN IT RAINS?



1.

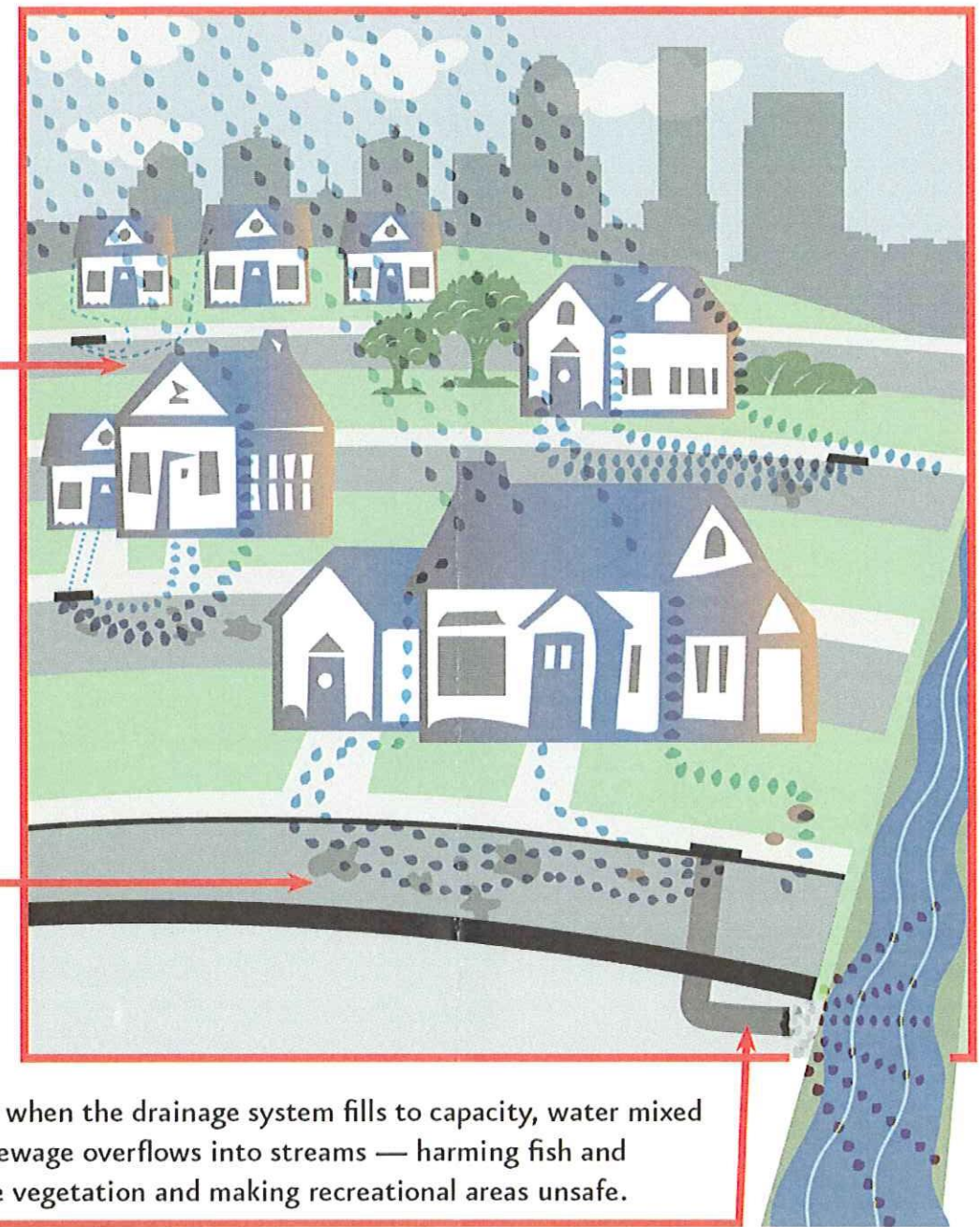
Rain runs off roads, parking lots, rooftops, patios and other surfaces it can't penetrate.

2.

As stormwater flows into storm pipes, drainage channels and streams, it collects harmful oil-based products, lawn chemicals, pesticides, pet waste and toxic substances.

3.

In a heavy downpour, when the drainage system fills to capacity, water mixed with pollutants and sewage overflows into streams — harming fish and wildlife, killing native vegetation and making recreational areas unsafe.





# CLEAN WATER

IS A COMMUNITY RESPONSIBILITY



## IMPROVING NATURAL ECOSYSTEMS AND WATER QUALITY

### WHAT'S GOING ON HERE?

The Beargrass Infiltration Project at Grinstead Drive and Lexington Road developed with the intention to improve infiltration, re-establish native species and help resolve water quality issues resulting from stormwater run-off. Due to the impact of urban development over the years, the hydrological functions of Beargrass Creek and adjacent riparian buffer have severely degraded. Adjacent highway and road construction eliminated native wetland plants that once grew there.

MSD and Metro Parks collaborated to implement a well-designed managed wetland landscape by enlarging the remnant wetland and increasing the riparian buffer zone. This improved ecosystem helps to filter out any pollutants from the storm water runoff and increases the overall diversity of plant and animal life.

In Fall of 2009, volunteers of all ages transplanted over a thousand native trees, shrubs, wildflowers and grasses. With continued support from community volunteers, as the natural components continue to recover, the connection between the natural world and the human-influenced world expands.

### RIPARIAN BUFFERS

Riparian buffers are wooded or meadow areas along streams that filter for pollutant runoff frequently associated with herbicides, fertilizers, eroded soil and debris. Aquatic life requires shade to thrive. Many of the stream buffers along Beargrass Creek contain invasive non-native bush honeysuckle and garlic mustard. Our community depends on citizens to maintain riparian buffer zones by removing harmful plants and replacing with native flora.

### NATIVE VEGETATION

Re-establishing native plants is a vital part of the naturalizing process. Native plants are adapted to local conditions and are able to withstand extremes in the weather. Migrating birds and many butterflies depend on native plants for food and shelter.

Invasive plants are creeping into natural areas at an alarming rate and they do not support bio-diversity. They frequently out-compete native varieties and, once established, are difficult to remove.

### WETLAND AREA

Wetlands are critical components for increasing water quality protection and maintaining bio-diversity. As part of the Grinstead Drive Lexington Road Infiltration Project the area of remnant wetland increased. The improved wetland provides habitat for migrating water birds, amphibians, beneficial insects and small mammals and lessening in a small way the impact of the 80% wetland acreage already lost throughout the Commonwealth of Kentucky.

Once part of the original Beargrass Creek floodplain, this small wetland receives stormwater runoff from the Lexington Road corridor. The installation of a rock weir helps to safely back up stormwater runoff water and hold it for a short time, allowing it to soak in. Some of the pollutants in the water are absorbed into the soil and taken up by the native plants before reaching the stream.

#### INVASIVE PLANTS REMOVED



Periwinkle (Vincetoxicum)



English Ivy



Burning Bush



Shrub Honeysuckle



Garlic Mustard



Creeping Charlie

#### SOME OF THE FLOWERING PLANTS AND SHRUBS NATIVE TO OUR AREA



Swamp milkweed



Dense blazing star



Swamp Hibiscus



Cardinal flower



Blue Vervain



Great Blue Lobelia



Slender Mountain Mint



Foxglove Beardstongue



Yellow Wingstem



Mistflower



Blue Flag Iris



Lizard's Tail



Common Hop Sedge



Rattlebox

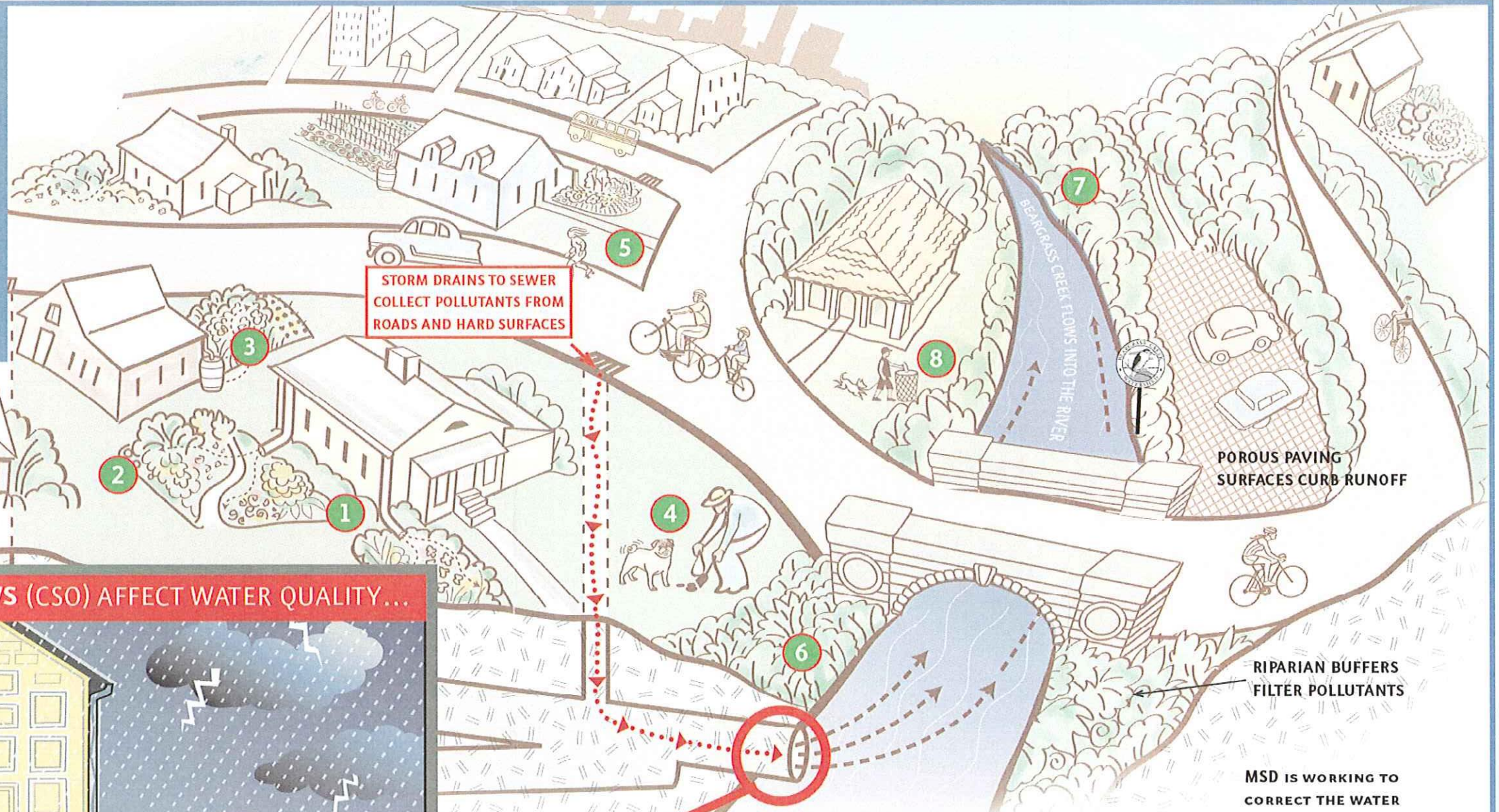


METRO Parks

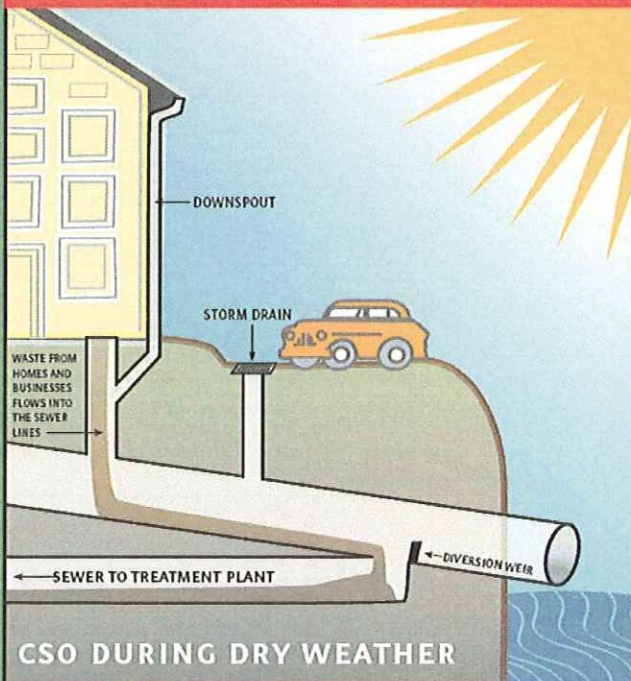


# CLEAN WATER

IS A COMMUNITY RESPONSIBILITY

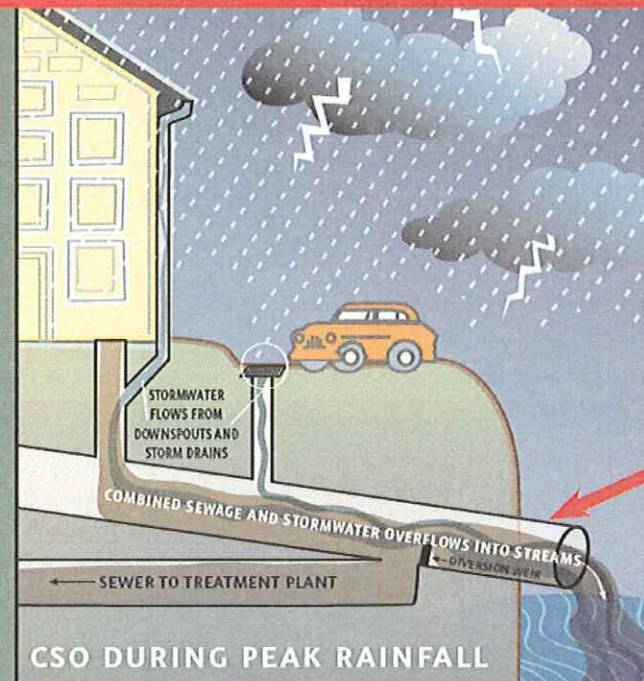


## HOW COMBINED SEWER OVERFLOWS (CSO) AFFECT WATER QUALITY...



CSO DURING DRY WEATHER

Prior to 1985, sewers were constructed to carry sanitary sewage from homes and businesses. When it rained, the same pipes collected stormwater runoff from streets and rooftops and carried the combined mixture to the treatment plant.



CSO DURING PEAK RAINFALL

During heavy rainfall, stormwater runoff from streets, rooftops and paved surfaces fills the sanitary sewers to capacity. To prevent this mixture from backing up into our homes and communities, untreated sewage and stormwater may be discharged into our streams and river which then contributes to water pollution.

- 1 **DISCONNECT** downspouts that drain rain water from your roof into the combined sewer.
- 2 **PLANT** a rain garden to infiltrate water from downspouts and hard surfaces.
- 3 **COLLECT** rain water in a rain barrel to use during dry weather periods.

4 **PICK UP** after your pet. Pet waste contributes significantly to bacteria and organic matter in stormwater runoff.

5 **MINIMIZE** use of fertilizers and chemicals on your lawn. **REPLACE** turf with drought resistant native plants.

6 If you live on a stream, **DON'T MOW** to the edge. Riparian (stream-side) buffers filter pollutants from stormwater before it reaches the stream.

7 **REMOVE** invasive plants especially from riparian buffers. Bush Honeysuckle, English Ivy, Burning Bush and Periwinkle are non-native invasives commonly found expanding into natural areas and overcoming native vegetation.

8 **DISPOSE** of trash properly. Plastic bags and bottles are clogging our streams causing major pollution problems and killing wildlife.

MSD IS WORKING TO CORRECT THE WATER QUALITY PROBLEMS ASSOCIATED WITH AGED INFRASTRUCTURE. SUCCESS DEPENDS ON THE EFFORTS OF ALL CITIZENS TO KEEP STORMWATER AND POLLUTANTS FROM EVER REACHING THE DRAINS.

