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October 30, 2013

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Subject: Quarterly Report 32
Civil Action No. 3:08-cv-00608-CRS

Attention Chief:

Please find attached our Quarterly Report, prepared in accordance with Paragraph 29 of our Amended Consent Decree. This report is for the period July 1, 2013 – September 30, 2013. This report provides an overview of significant program elements, issues, and accomplishments pertaining to Consent Decree compliance activities. Included are sections on Project WIN activities related to: NMC, SORP, Discharge Abatement Plans, Public Outreach, Education, Notification and Participation, CMOM and Performance Overview.

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

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

Sincerely,

Brian Bingham.
Regulatory Services Director

cc: Greg Heitzman, PE

Paula Purifoy



Beneficial Use of Louisville's Biosolids
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Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #32



Reporting Period:

July 1, 2013 through September 30, 2013

Submitted To:

Kentucky Department of Environmental Protection

United States Environmental Protection Agency

United States Department of Justice

Submitted By:

Louisville and Jefferson County Metropolitan Sewer District

700 W. Liberty Street

Louisville, Kentucky 40203-1911

Submittal Date:

October 28, 2013

TABLE OF CONTENTS

INTRODUCTION	4
SECTION 1: Program Activities for Nine Minimum Controls	5
1.1 Nine Minimum Controls Program Background	5
1.2 NMC 2: Maximization of Storage in the Collection System	5
1.3 NMC 4: Maximization of Flow at the Morris Forman Water Quality Treatment Center (WQTC)	5
SECTION 2: Program Activities for Sewer Overflow Response Protocol	17
2.1 SORP Program Background	17
2.2 Overflow Management and Field Documentation	17
2.3 Staff Training and Communication	18
SECTION 3: Program Activities for Discharge Abatement Plans	19
3.1 Integrated Overflow Abatement Plan (IOAP)	19
3.2 Sanitary Sewer Discharge Plan (SSDP)	19
3.2.1 Updated Sanitary Sewer Overflow Plan Implementation	19
3.2.2 Interim Sanitary Sewer Discharge Plan	19
3.2.3 Final Sanitary Sewer Discharge Plan	19
3.3 CSO Long Term Control Plan	20
3.3.1 Interim CSO Long Term Control Plan	20
3.3.2 Final CSO Long Term Control Plan	20
3.3.3 Green Program Update	21
3.4 Activity Progress Chart	21
SECTION 4: Program Activities for Public Outreach, Education, Notification and Participation	27
4.1 Public Notification Program	27
4.2 Public Education Programs	27
4.3 Public Outreach Programs	27
4.3.1 IOAP Project and Program Meetings	27
SECTION 5: Capacity Management Operations and Maintenance Report	28
5.1 Management Programs	28
5.2 Operations Programs	28
5.3 Comprehensive Performance Evaluations and Composite Correction Plans	

(CPE/CCP).....	29
5.3.1 Hite Creek Water Quality Treatment Center	29
5.3.2 Floyds Fork Water Quality Treatment Center.....	29
5.3.3 Derek R. Guthrie Water Quality Treatment Center	29
5.3.4 Cedar Creek Water Quality Treatment Center	29
5.3.5 Prospect Area Water Quality Treatment Center Updates	29
5.3.5.1 Timberlake Water Quality Treatment Center.....	30
5.3.5.2 Hunting Creek North Water Quality Treatment Center.....	30
5.3.5.3 Hunting Creek South Water Quality Treatment Center	30
5.3.5.4 Ken Carla Water Quality Treatment Center	30
5.3.5.5 Shadow Wood Water Quality Treatment Center	30
5.3.6 Jeffersontown Water Quality Treatment Center	30
5.3.7 Starview Water Quality Treatment Center.....	30
5.3.8 Berrytown Water Quality Treatment Center	30
5.3.9 Chenoweth Hills Water Quality Treatment Center	30
5.3.10 Other Water Quality Treatment Centers.....	30
5.4 CMOM Activity Schedule.....	31
SECTION 6: Project WIN Performance Overview	35
6.1 Rainfall	35
6.2 Collection System Unauthorized Discharges.....	35
6.2.1 Collection System Overflows to Waters of the United States (WUS).....	35
6.2.2 Overflows to Ground (EXT)	36
6.2.3 Overflows to Interior (INT)	36
6.2.4 Dry Weather CSOs.....	36
6.3 CSO Reductions	37
6.4 SSO Reductions	37
6.5 Gravity Line Preventive Maintenance	37
6.6 Water Quality Treatment Center Bypasses	38
6.6.1 Bypass Events.....	38
6.6.2 Bypass Corrective Actions	38
6.6.3 Jeffersontown Water Quality Treatment Center	39
42	
6.7 Phosphorus Monitoring at the Prospect WQTCs.....	43

ATTACHMENTS

APPENDIX A-1 DISCHARGE WORK ORDERS-DRY WEATHER CSOS

APPENDIX A-2 DISCHARGE WORK ORDERS-BYPASS

APPENDIX A-3 DISCHARGE WORK ORDERS-BLENDING

APPENDIX B-CSO FLOW MONITORING DATA

APPENDIX C-ACRONYMS

APPENDIX D-SCAP BALANCE

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 thirty-second Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from July 1, 2013, through September 30, 2013. **The structure for this report is outlined as follows:**

Section 1: Program Activities for Nine Minimum Controls (NMC) - This section describes the data collected for NMC 2 – Maximization of Storage in the Collection System, and NMC 4 – Maximization of Flow at the Morris Forman Water Quality Treatment Center (WQTC) that were active during the reporting period (July 1, 2013, through September 30, 2013).

Section 2: Program Activities for Sewer Overflow Response Protocol (SORP) - This section describes the training attendance records, overflow data, and overflow reconnaissance inspection routes related to SORP that were active during the reporting period (July 1, 2013, through September 30, 2013).

Section 3: Program Activities for Discharge Abatement Plans (DAP) - This section describes the schedule and status for projects related to the DAP by means of an updated Gantt chart for active DAP projects during the reporting period, and the anticipated projects and activities that are scheduled for continued compliance with the Amended Consent Decree.

Section 4: Program Activities for Public Outreach, Education, Notification and Participation - This section describes the activities related to public outreach that were active during the reporting period (July 1, 2013, through September 30, 2013).

Section 5: Capacity Management, Operations and Maintenance Report - The CMOM program activities and programmatic activities for WQTCs generating capital projects will be reported in a Gantt chart for the reporting period (July 1, 2013, through September 30, 2013), and include the schedule for activities planned for the next two reporting periods (October 1, 2013, through March 31, 2014), are included in this section for continued compliance with the Amended Consent Decree.

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

SECTION 1: Program Activities for Nine Minimum Controls

1.1 Nine Minimum Controls Program Background

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

1.2 NMC 2: Maximization of Storage in the Collection System

Continued operation of Phase 1 and Phase 2 of the Real Time Control system. During this reporting period, approximately 377 MG were stored in the system during rain events and routed to the Morris Forman WQTC once the system was able to handle the flow. See the figure at the end of this section for a detailed report.

The gates at SWOR2 have been placed in manual control due to what was diagnosed as a failure of the gate level sensors that are integral to the integration of this site in the RTC schema. The sensors were replaced in the reporting period, but the problem was not resolved due to the gate-closed proximity switches also being diagnosed as defective. Weather permitting, these switches will be replaced in the next reporting period.

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

The following charts illustrate performance in maximizing flow to the Morris Forman WQTC. The top of the chart shows rainfall inches per day. The middle part of the chart shows Morris Forman WQTC effluent flow, and secondary treatment flow. The difference between these is the secondary bypass flow. The bottom of the chart shows days with a CSO activation at the five CSOs in the vicinity of the Morris Forman WQTC (CSOs 015, 016, 191, 210, and 211). Note that the flow meter downstream from CSO 211 is known to be affected by backwater effects of the Ohio River and the ultrasonic signal is sometimes blocked by mist and condensation when air and sewage temperatures are significantly different, so CSO activations at CSO 211 are keyed to water levels upstream and downstream of the inflatable dam in the Main Diversion Structure. The other CSO activations are tied to flow measurement downstream of the respective CSOs. There are occasions in which a communications failure with telemetry has led to short-term gaps in the data. In addition, indications of rainfall and CSO activations are shown on the day they happened, but are not aligned with the exact time, so the effluent flow graph (which is tied to actual time) may show peaks that are offset from the indicated rain or CSO events by as much as 24 hours.

The East Headworks Bar Screen No. 3 was out of service for most of the quarter, but other available facilities provided adequate capacity during wet weather events and the bar screen outage did not impact CSOs during the reporting period. Primary Sedimentation Basin No. 2 was out of service for 3 – 4 days in August, but this maintenance outage occurred during dry weather and did not impact CSOs during the reporting period. Primary Sedimentation Basin

No. 1 was out of service for most of the month of September, reducing the wet weather flow capacity by 25%, which impacted the peak wet weather flows treated during the wet weather event of September 20 and 21. Secondary clarifier A-5 was out of service for most of the month of July and Secondary Clarifier C-3 was out of service part of September, but MFWQTC Operations staff were able to compensate for the clarifiers being out of service, and secondary treatment capacity was not significantly impacted.

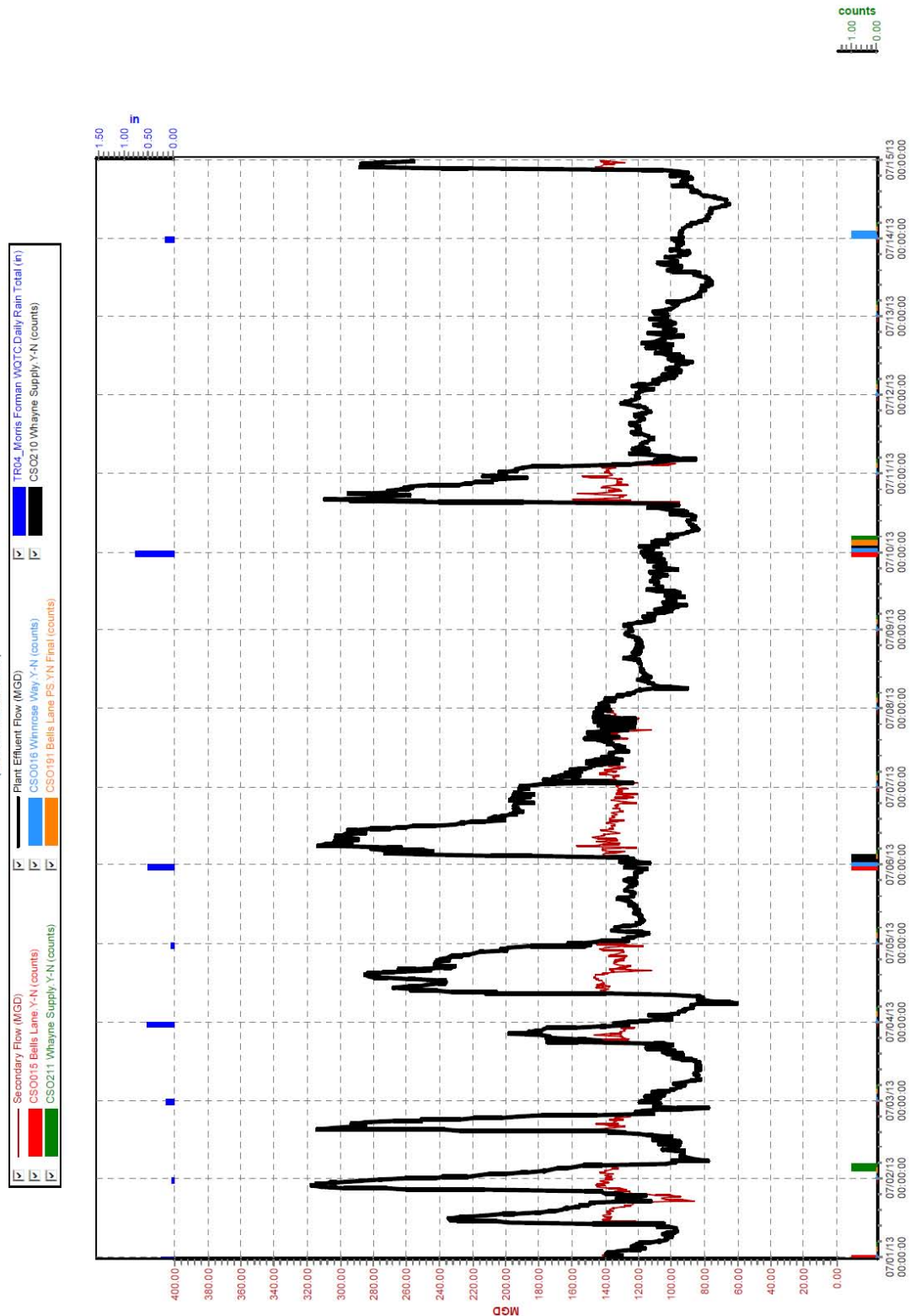
On August 9 and 10 a wet weather event caused overflows at CSO 015. While the rain gauge at the MFWQTC showed very little rain and flows to the MFWQTC were not as elevated as would normally be observed during CSO events parts of the CSO 015 sewershed saw almost 2 inches of rain during the two-day period. The localized downpours in the CSO 015 sewershed caused high flows in the Southwest Interceptor which could not be contained in the SWOR1 in-line storage, even with three pumps running at the Southwest Pump Station. This resulted in short-duration wet weather discharges at CSO 015, even though the flows at MFWQTC were less than the capacity of the plant as indicated by the Capacity Calculator.

On September 10 a dry weather discharge occurred at CSO015. Scheduled LG&E maintenance activities required a short power outage at the Southwest Pump Station. To accommodate this, flow was stored in the SWOR 1 Real Time Control (RTC) inline storage facility. The power outage caused a loss of communications with the RTC system. The loss of signal initiated a failsafe mechanism that resulted in the gates downstream of CSO015 opening and causing the dry weather discharge. The discharge was reported through the electronic discharge notification system. Components were added to monitor the communications status between the control systems and RTC. A SOP document has been written regarding future outages to prevent discharges of this nature.

An engineer was selected to begin the design of upgrades to improve headworks performance and reliability as defined in the preliminary engineering report completed in a previous reporting period. A contract was negotiated and approved by the MSD Board on September 23. Final design of the improvements will begin during the next reporting period.

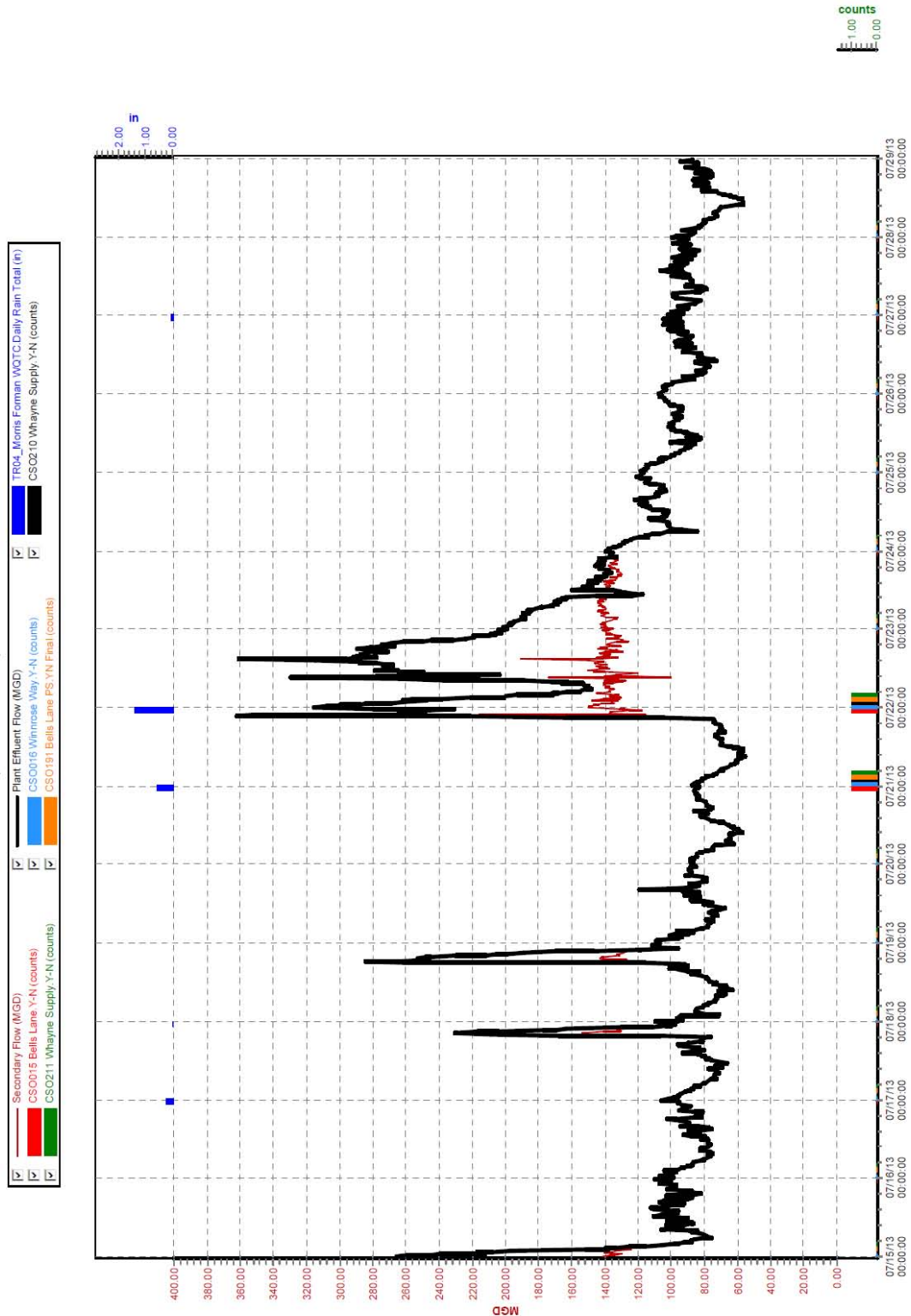
Morris Forman WQTC - Bypass vs. Large CSOs

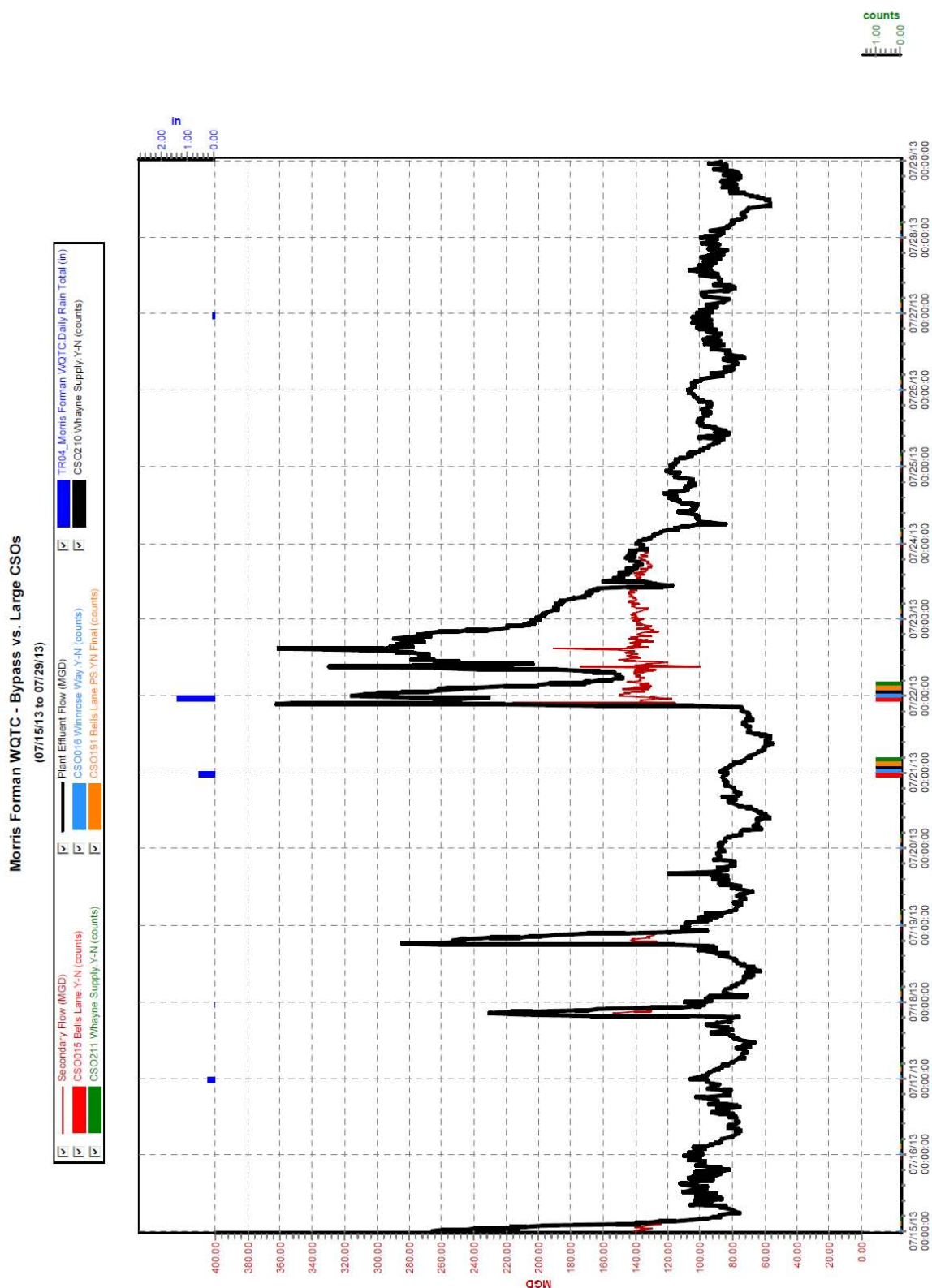
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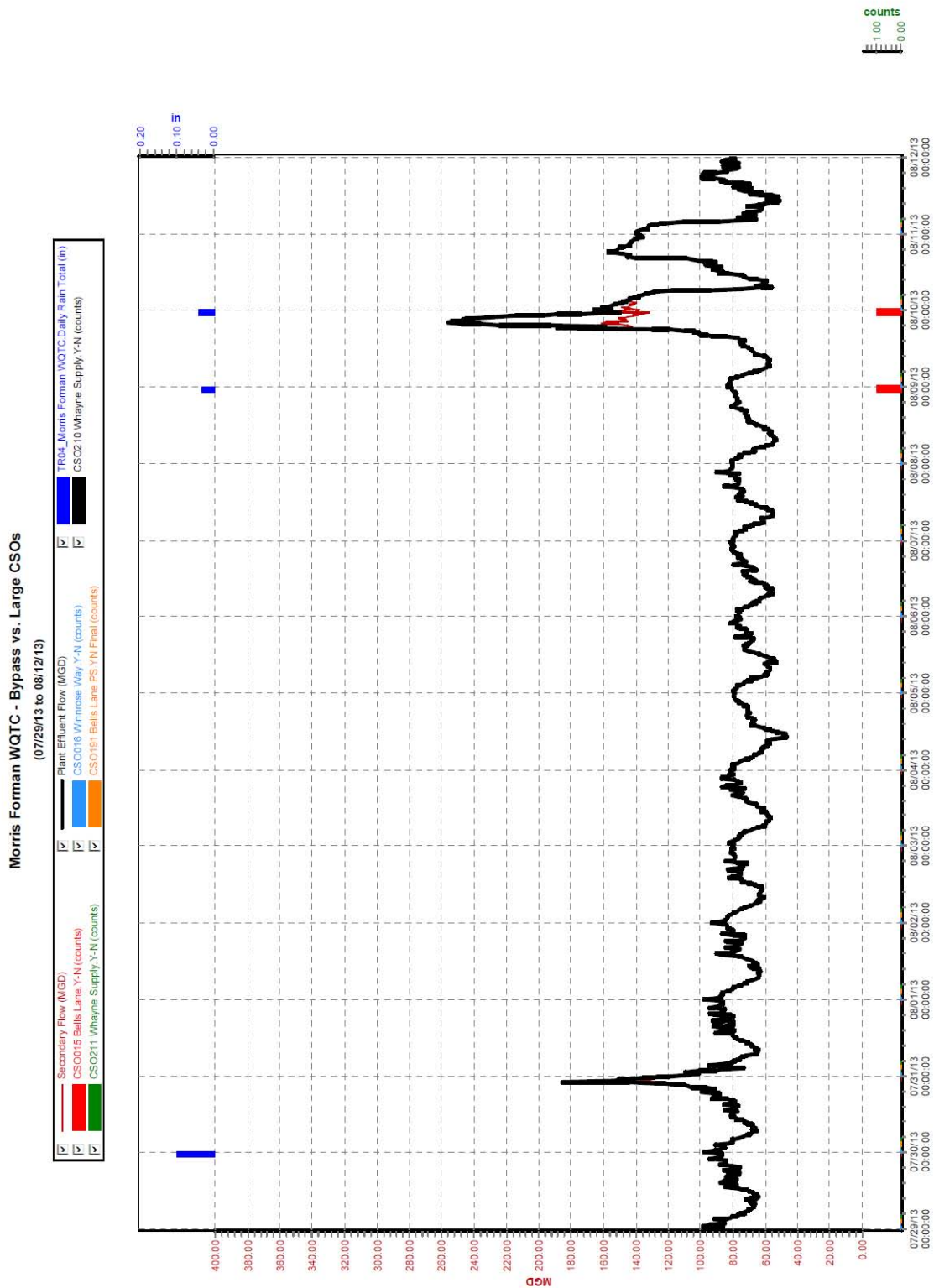


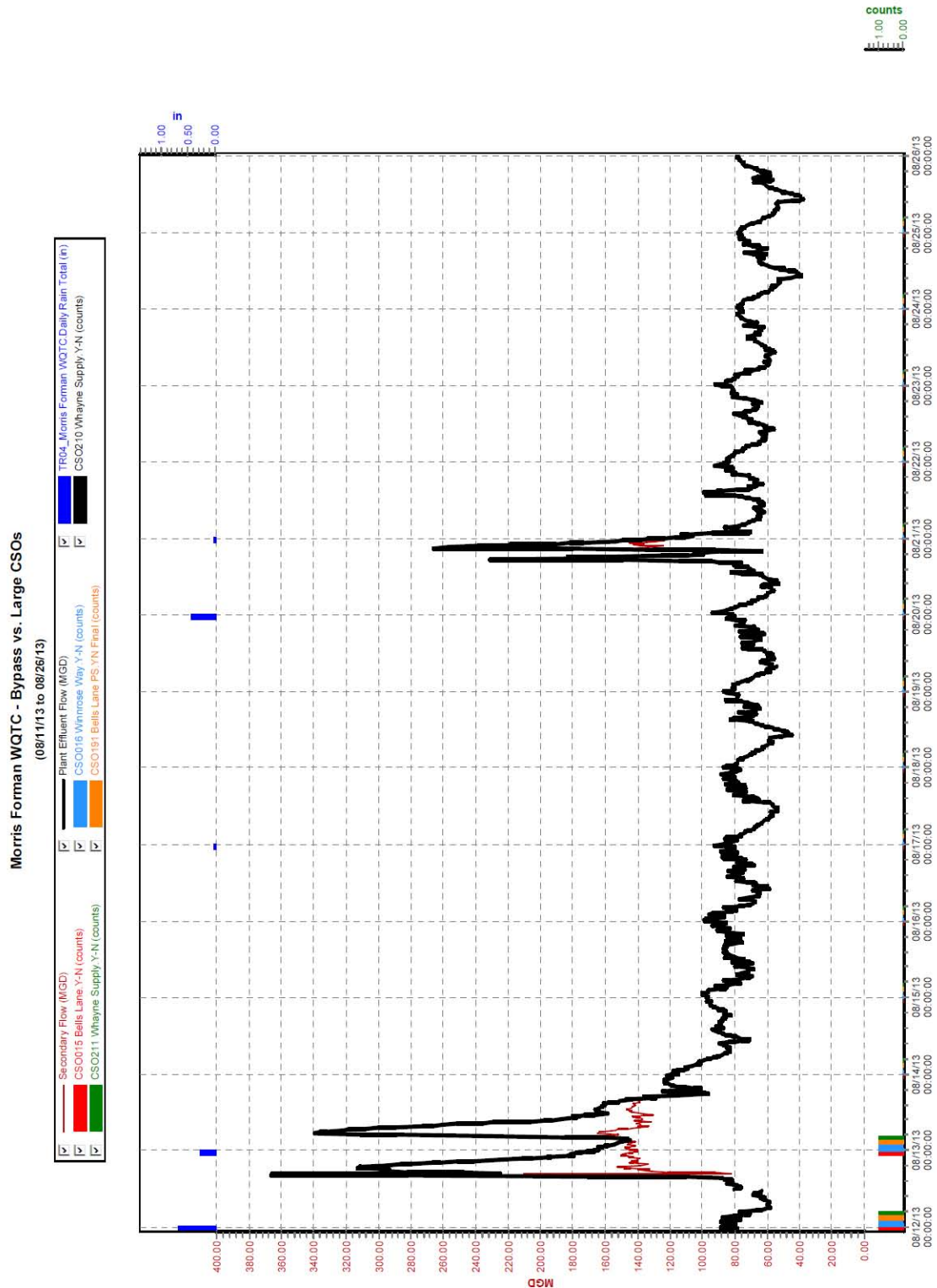
Morris Forman WQTC - Bypass vs. Large CSOs

(07/15/13 to 07/29/13)



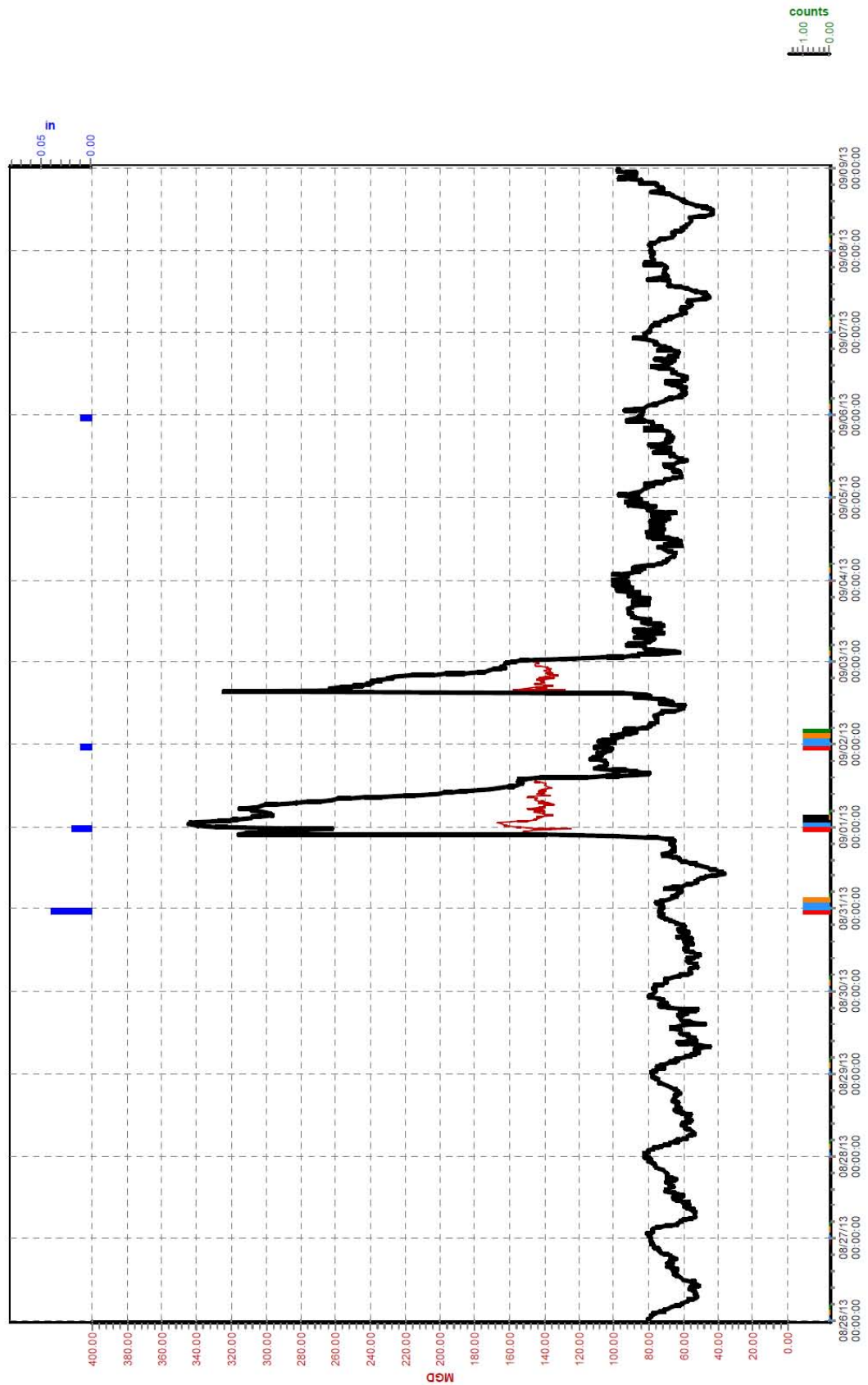






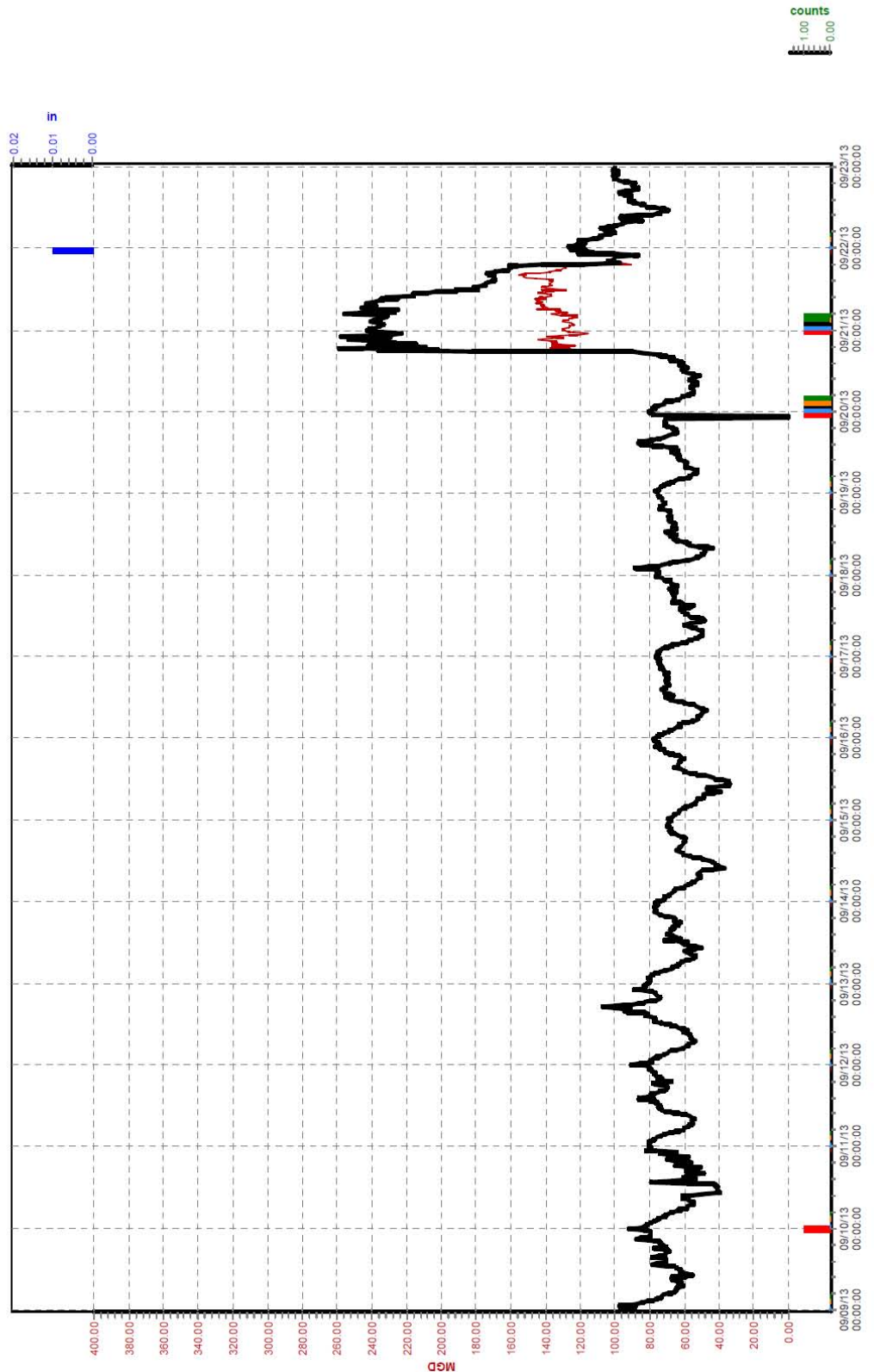
Morris Forman WQTC - Bypass vs. Large CSOs

(08/26/13 to 09/09/13)



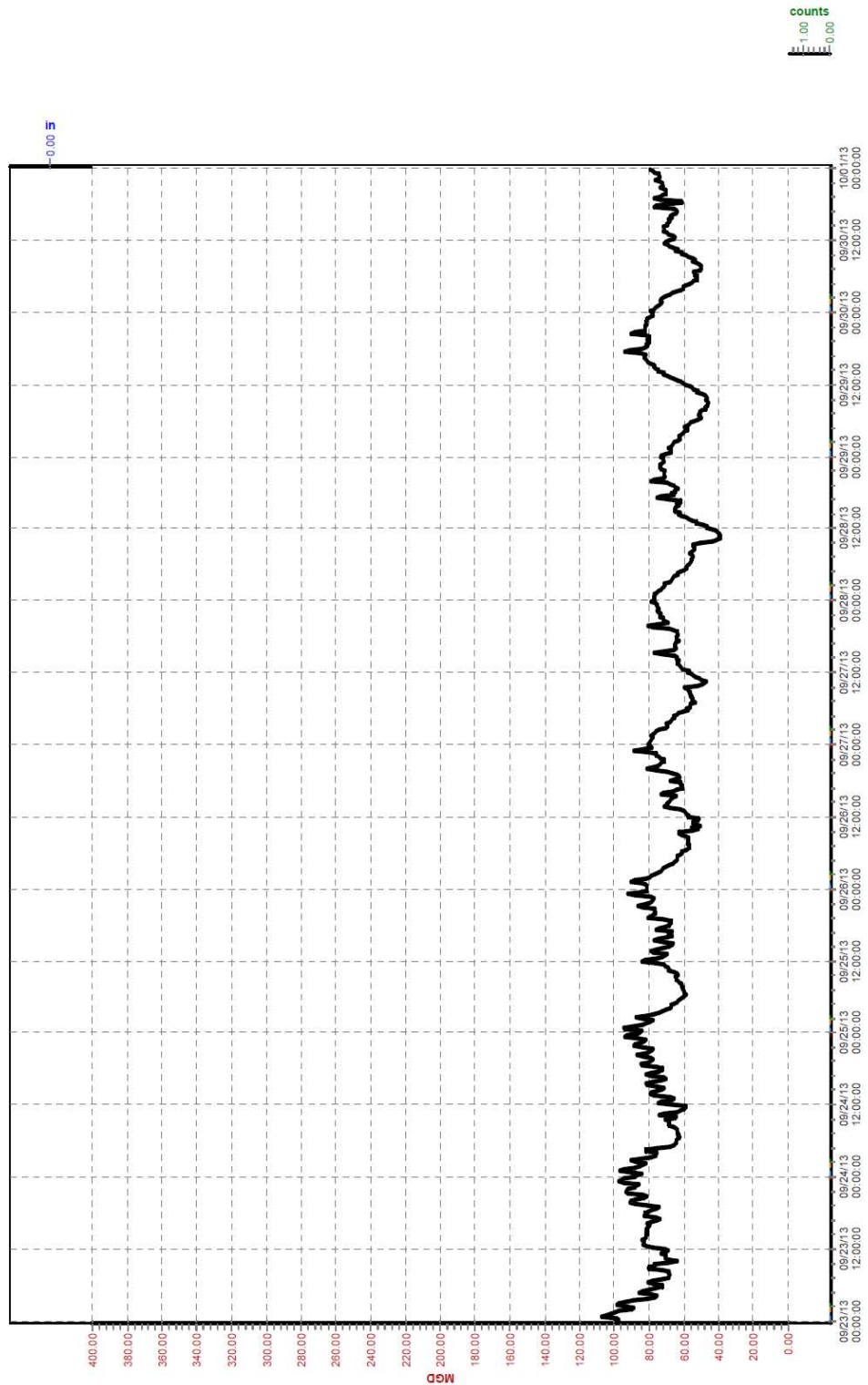
Morris Forman WQTC - Bypass vs. Large CSOs

(09/09/13 to 09/23/13)



Morris Forman WQTC - Bypass vs. Large CSOs

(09/23/13 to 10/01/13)



There were no KPDES permit violations at Morris Forman WQTC during July, August or September, 2013.

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

- Secondary Clarifier Flow Meter Replacement – A project to replace all 20 secondary clarifier influent flow meters was completed. All 20 flow meters have been installed and are in service. Performance testing was completed and MSD has accepted the project.
- Secondary By-Pass Flume Replacement - The existing flume liner was removed and grout removal and surface preparation is almost complete. Installation of the new flume liner is scheduled for mid-October. Note that the secondary bypass channel remains operational during this construction, and flow measurement is still being done. Since the flume bottom does not exactly matching the standard parshall flume geometry the flow measurements during this time are only approximate, but are adequate for process control.
- Wet Weather Operational Plan – Now that the secondary clarifier flow meter replacement project is complete and the Secondary By-Pass Flume Replacement project is scheduled for completion in October, Wet weather SOP training and revisions to the Morris Forman WQTC Capacity Calculator will be initiated during the next reporting period.
- RTC System-Wide Optimization Project – Staff developed draft control algorithms for integrating the Northern Ditch Diversion into the RTC system. In addition, staff continued to review the control algorithms for the Southeast Diversion Structure. The RTC optimization effort was expanded to include the Derek R Guthrie WQTC high rate treatment facility. It is expected that full integration in an automated mode will be delayed until operations staff have completed a period of manual operation to validate the control assumptions. Active control of these systems is required now that the new Southeast Diversion and the Highgate Springs Pump Station have both been taken off line and the Southeast Interceptor Relief project is completed, in accordance with the Interim Sanitary Sewer Discharge Plan. A plan has been created to have the control strategy for integrating all these sites developed by December 2013, for implementation during calendar year 2014.



Louisville/Jefferson County
Metropolitan Sewer District

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



Period	
From :	07/01/2013
To :	09/30/2013

Event Number	Wet Weather Event			Rainfall			Wet Weather Storage Volume (MG)								High River Levels	Comments
	Start Date	End Date	Duration	Average* TRFD (in)	Max** TRFD (in)	Rain Gauge	SWPS SG Chamber	SWOR2	Brady Lake and Executive Inn Storage	Southern Outfall	Ashland	Ohio River Interceptor	Sneads Branch	Total		
2013-049	7/1/13 8:35	7/2/13 6:20	21:45:00	0.20	0.39	TR12	20.00	1.30	2.50	5.85	0.10	3.20	0.20	33.15	0	Back to back storm cells heterogeneously distributed over the service area with dewatering of storage sites between cells. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. SWSG and Brady Lake were manually operated.
2013-050	7/2/13 14:05	7/3/13 0:20	10:15:00	0.02	0.13	TR05	5.35	0.00	0.10	4.55	0.00	2.95	0.00	12.95	0	Moderate storm cells heterogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. SWSG and Brady Lake were manually operated.
2013-051	7/3/13 16:45	7/5/13 1:35	32:50:00	0.78	0.96	TR14	9.10	0.00	2.95	1.80	0.00	2.40	0.00	16.25	0	Moderate storm cells homogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Brady Lake was manually operated.
2013-052	7/6/13 0:35	7/9/13 9:30	80:55:00	0.80	0.98	TR14	14.25	0.00	3.05	4.70	0.55	3.05	0.40	26.00	0	Large storm cells homogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Brady Lake was manually operated.
2013-054	7/10/13 13:30	7/14/13 19:55	102:25:00	0.47	0.98	TR13	13.85	0.00	1.40	4.40	0.00	2.95	2.15	24.75	0	Large and intense storm cells heterogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. SWSG and Brady Lake were manually operated.
2013-055	7/14/13 19:55	7/15/13 14:40	18:45:00	0.29	0.55	TR13	4.10	0.00	2.10	4.55	0.25	3.00	1.60	15.60	0	Moderate storm cells homogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Brady Lake was manually operated.
2013-056	7/17/13 16:00	7/18/13 3:20	11:20:00	0.03	0.22	TR04	1.20	0.00	0.10	1.20	0.00	0.80	0.00	3.30	0	Small storm cells heterogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Brady Lake was manually operated.
2013-057	7/18/13 16:20	7/19/13 10:25	18:05:00	0.08	0.38	TR12	3.25	1.25	0.00	1.85	0.00	2.00	0.00	8.35	0	Small storm cells heterogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Brady Lake was manually operated.
2013-058	7/21/13 19:35	7/23/13 18:45	47:10:00	2.09	3.02	TR12	22.65	0.00	16.60	12.00	0.00	7.65	2.35	61.25	0	Very large and intense storm cells heterogeneously distributed over the service area (characteristic of a 1-year return period). SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. SWSG and Brady Lake were manually operated.
2013-063	8/9/13 0:15	8/10/13 14:05	37:50:00	0.64	1.79	TR14	12.20	1.70	5.25	4.30	0.25	2.25	1.20	27.15	0	Large storm cells homogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Brady Lake was manually operated.
2013-064	8/10/13 14:05	8/11/13 3:55	13:50:00	0.09	0.41	TR11	12.15	2.45	0.90	0.00	0.30	0.00	0.00	15.80	0	Moderate storm cells heterogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Brady Lake was manually operated.
2013-065	8/12/13 6:25	8/13/13 17:25	35:00:00	0.76	1.28	TR12	21.60	1.45	7.15	9.40	1.10	5.60	2.65	48.95	0	Back to back storm cells heterogeneously distributed over the service area with dewatering of storage sites between cells. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Brady Lake was manually operated.
2013-066	8/20/13 16:20	8/21/13 7:30	15:10:00	0.23	0.50	TR12	0.00	0.00	1.25	1.90	0.00	2.25	0.55	5.95	0	Small storm cells heterogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Brady Lake was manually operated.
2013-068	8/31/13 14:40	9/1/13 14:35	23:55:00	1.47	3.22	TR15	10.90	0.20	4.50	4.90	0.25	3.30	0.40	24.45	0	Large storm cells heterogeneously distributed over the service area. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Brady Lake was manually operated.
2013-069	9/2/13 14:30	9/3/13 4:20	13:50:00	0.27	0.83	TR12	11.05	0.30	2.20	5.05	0.15	3.35	2.30	24.40	0	Large storm cells heterogeneously distributed over the service area, mostly in the southwestern part. SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Executive Inn and Brady Lake were manually operated.
2013-074	9/20/13 16:40	9/22/13 7:50	1:63	1.82	3.13	TR15	12.10	1.95	4.70	2.50	0.55	5.40	1.20	28.40	0	Large storm cells heterogeneously distributed over the service area (characteristic of a 2-year return period). SWOR2 was manually controlled with its gates in the open position and minimal available storage utilization. Executive Inn and Brady Lake were manually operated.
TOTAL							173.75	10.60	54.75	68.95	3.50	50.15	15.00	376.70		

SECTION 2: Program Activities for Sewer Overflow Response Protocol

2.1 SORP Program Background

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

MSD completely revised the SORP documentation in 2011. The draft of this revised document was submitted for comment on August 22, 2011. Comments from the EPA and KDEP were received and addressed, and the document was resubmitted October 28, 2011. Final approval of the updated SORP document was received February 21, 2012. A hard copy of the approved document has been distributed to each division throughout MSD and a viewable, downloadable electronic version has been posted to the MSD Project WIN website www.msdpowerwin.org.

The current approved SORP document is now dated February 21, 2012, and can be viewed on the MSD Project WIN website www.msdpowerwin.org. Updates to the SORP document were submitted in August 2012, with confirmation of approvals on October 25, 2012. These updates are posted on the Project WIN website. The following activities were performed during this reporting period.

2.2 Overflow Management and Field Documentation

- Monitored approximately 157 sanitary sewer overflow (SSO) sites, which have been grouped into routes based on the range of rainfall rates necessary to cause a SSO. These routes are monitored during rain events depending on the magnitude and location of the storm. If an overflow is observed, a Discharge Work Order is created to document the event. During this quarter, Regulatory Services and Engineering staff documented 19 suspected or unauthorized discharges through route reconnaissance. Inspection routes were run during rain events as described in the following table:

Route Description	07/06/13	07/10/13	07/22/13	08/09/13	08/16/13	08/21/13
ENGINEERING RAIN EVENT SSO INSPECTION ROUTE	X		X			
RS HIKES POINT RAIN EVENT SSO INSPECTION ROUTE	X	X	X	X	X	X
RS JEFFERSONTOWN RAIN EVENT SSO INSPECTION ROUTE	X	X	X			X
RS JEFFERSONTOWN/FERN CREEK RAIN EVENT SSO INSPECTION ROUTE	X	X	X			X
RS MIDDLE/MUDDY FORK RAIN EVENT SSO INSPECTION ROUTE	X	X	X			X

- Due to Capacity related issues, during this reporting period, MSD Metro Operations staff hauled 380,000 gallons of sewage. MSD also hauled due to other issues as indicated in the following table:

MSD Hauled Volumes In Gallons (July 1, 2013 - September 30, 2013)				
Problem	July	August	September	Total
LACK OF SYSTEM CAPACITY	266,603	15,000	98,502	380,105
MECHANICAL FAILURE	7,000	-	-	7,000
POWER FAILURE	800	-	-	800
STRUCTURAL FAILURE	13,200	500	195,000	208,700
Grand Total	287,603	15,500	293,502	596,605

2.3 Staff Training and Communication

- Reviewed and updated the training documentation for the 2013 third quarter SORP training that included public notification and overflow clean up.
- Commenced planning for the 2013 fourth quarter SORP training that will focus on completing documentation and reporting.
- Conducted the following SORP Quarterly training sessions which were attended by 281 employees.

Staff Training Participation - July 1, 2013 - September 30, 2013				
Date	Dept./Area	Location	Module	Attendees
9/4/2013	Morris Forman Operations & Maintenance Staff	MFWQTC	Public Notification and Overflow Clean Up	13
9/4/2013	Morris Forman Operations & Maintenance Staff	MFWQTC	Public Notification and Overflow Clean Up	38
9/4/2013	Metro Operations Staff	CCWQTC	Public Notification and Overflow Clean Up	18
9/4/2013	Morris Forman Operations & Maintenance Staff	MFWQTC	Public Notification and Overflow Clean Up	19
9/11/2013	Morris Forman Operations & Maintenance Staff	MFWQTC	Public Notification and Overflow Clean Up	8
9/11/2013	Morris Forman Operations & Maintenance Staff	MFWQTC	Public Notification and Overflow Clean Up	11
9/11/2013	Morris Forman Operations & Maintenance Staff	MFWQTC	Public Notification and Overflow Clean Up	3
9/12/2013	Engineering & Regulatory Services Staff	CMF	Public Notification and Overflow Clean Up	34
9/13/2013	I&FP Staff	CMF	Public Notification and Overflow Clean Up	15
9/25/2013	Metro Operations Staff	DRG	Public Notification and Overflow Clean Up	17
9/18/2013	Metro Operations Staff	FFWQTC	Public Notification and Overflow Clean Up	22
9/19/2013	Engineering & Regulatory Services Staff	CMF	Public Notification and Overflow Clean Up	49
9/25/2013	Metro Operations Staff	DGWQTC	Public Notification and Overflow Clean Up	16
9/25/2013	I&FP Staff	CMF	Public Notification and Overflow Clean Up	18
Total				281

SECTION 3: Program Activities for Discharge Abatement Plans

3.1 Integrated Overflow Abatement Plan (IOAP)

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

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

MSD submitted an IOAP modification request to EPA/KDEP on September 20, 2012, with partial approval granted via certified letter on October 25, 2012. The modified project package, program descriptions and progress, and updated supporting text are included in the revised IOAP, submitted to EPA/KDEP on June 14, 2013.

3.2 Sanitary Sewer Discharge Plan (SSDP)

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

3.2.1 Updated Sanitary Sewer Overflow Plan Implementation

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

3.2.2 Interim Sanitary Sewer Discharge Plan

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

3.2.3 Final Sanitary Sewer Discharge Plan

MSD submitted for approval a Final Sanitary Sewer Discharge Plan (SSDP) on December 19, 2008, as Volume 3 of the Integrated Overflow Abatement Plan (IOAP). The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, that was entered into public record February 15, 2010. A revised SSDP was included in the IOAP revision, submitted June 14, 2013.

- Prospect WQTC Elimination Projects Easement Status - A total of 54 easements have been identified. Final design alignments increased the easement number from the previously reported 53.
- Acquired 30 of these Prospect easements to-date. Details on the easement progress and status:
 - River Road Interceptor- 18 Easements acquired – project under construction.
 - River Road Interceptor Phase 1A- 2 Easements acquired – project under construction.
 - HC Pump Station- 2 Easements acquired – project under construction.
 - HC Interceptor and FM Phase 1- 1 Easement acquired – project under construction.
 - HC Interceptor and FM Phase 2- 3 Easements acquired – project under construction.
 - HC FM Phase 3A- 1 Easement acquired – project under construction.
 - HC FM Phase 3B- 7 Easements acquired with additional 15 Easements in process. Offer letters sent out and under negotiations with Scott and Steve. Project bid.
 - Shadow Wood- 2 Easements in process, letters not sent project under design.
 - Hunting Creek North- 3 Easements in process, letters sent out.

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.msdpwin.org.

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

3.3.2 Final CSO Long Term Control Plan

MSD submitted for approval the Final CSO LTCP on December 19, 2008, as Volume 2 of the Integrated Overflow Abatement Plan (IOAP). The IOAP was accepted by the Federal Court and incorporated by reference into the Amended Consent Decree by an Order signed February 12, 2010, that was entered into public record February 15, 2010. A revised LTCP was included in the IOAP revision, submitted June 14, 2013.

3.3.3 Green Program Update

MSD continued program activities to provide incentives to private property owners to reduce the amount of impervious surface that drains to the combined sewer system. This program is outlined in the brochure at the following link:

http://www.msdlouky.org/pdfs/Green_Infrastructure_Incentives_Savings_Web.pdf

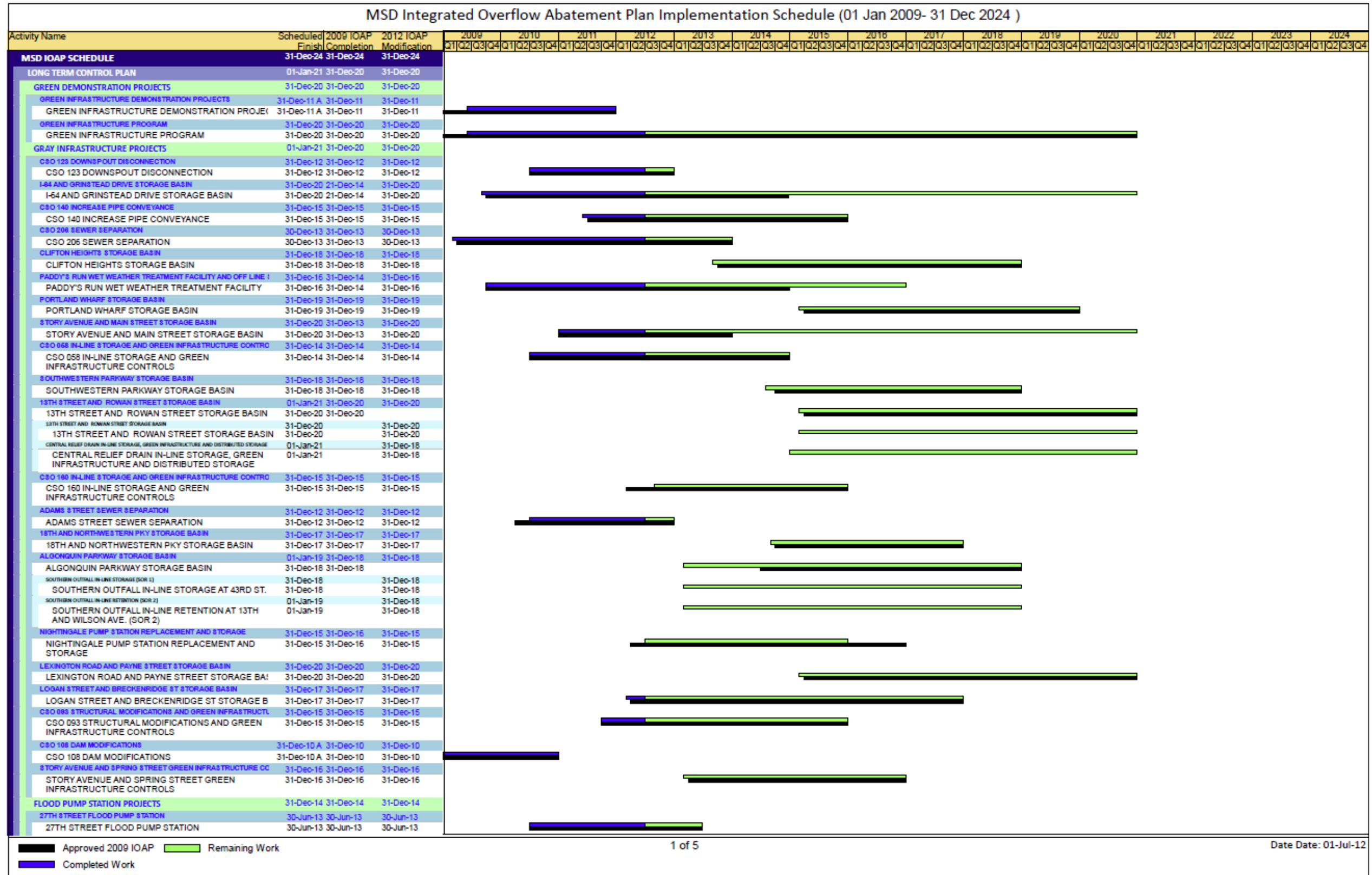
The green program incentives are being reviewed to reflect the values of green projects in CSO areas or regions based on the latest modeling results. The goal is to eventually tie incentives directly to overflow reductions in various CSO regions to promote green projects in the areas that provide the most value, and prioritize project opportunities to optimize available funding. Revised program literature and documentation during the reporting period and scheduled a presentation to the MSD Board on possible programmatic changes in April 2013.

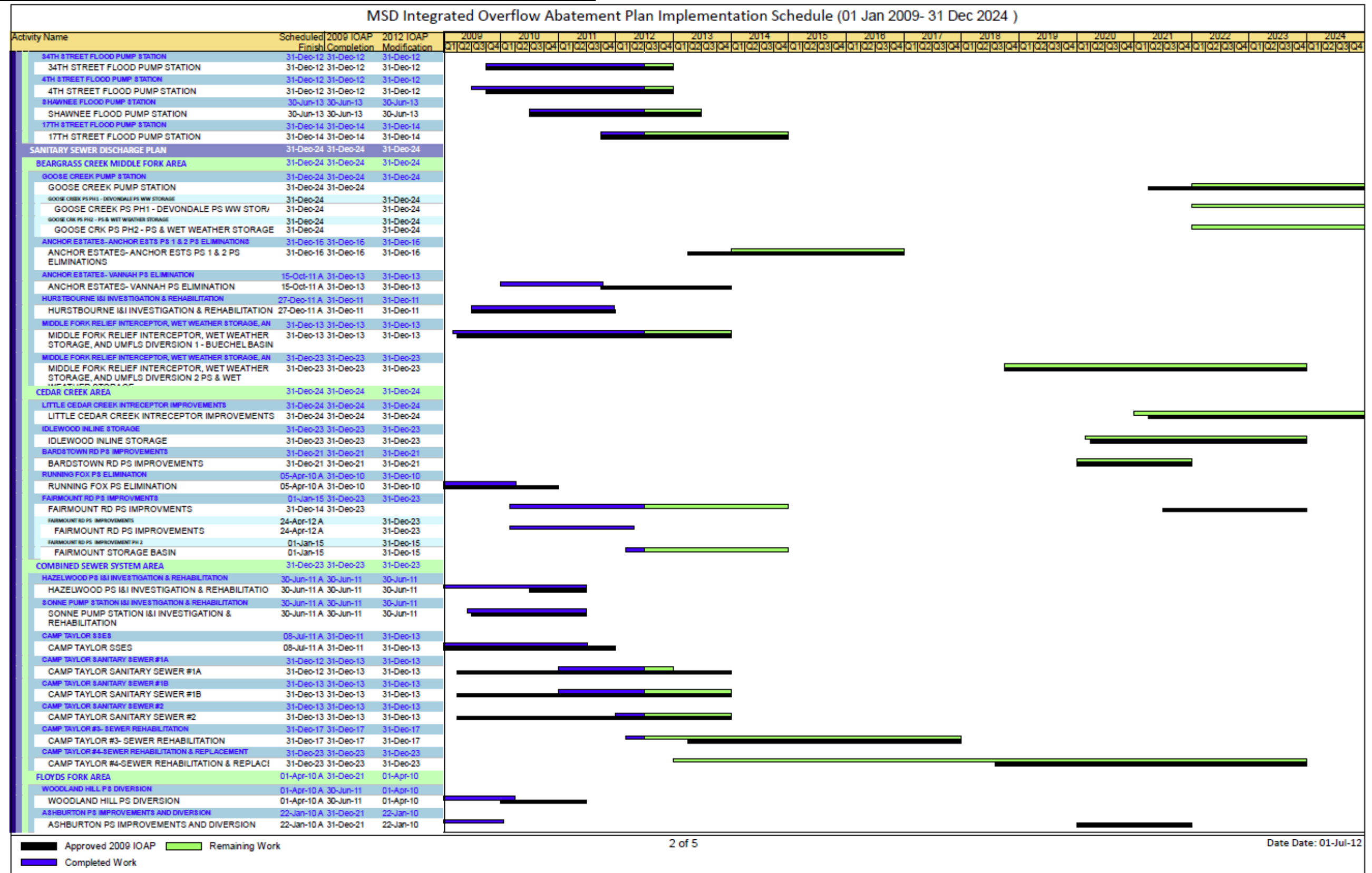
MSD continued development of a green infrastructure website for distribution of information on the programs, incentives, and value to customers. Completion of the green website will be contingent upon the completion and publishing of the MS4 website in August.

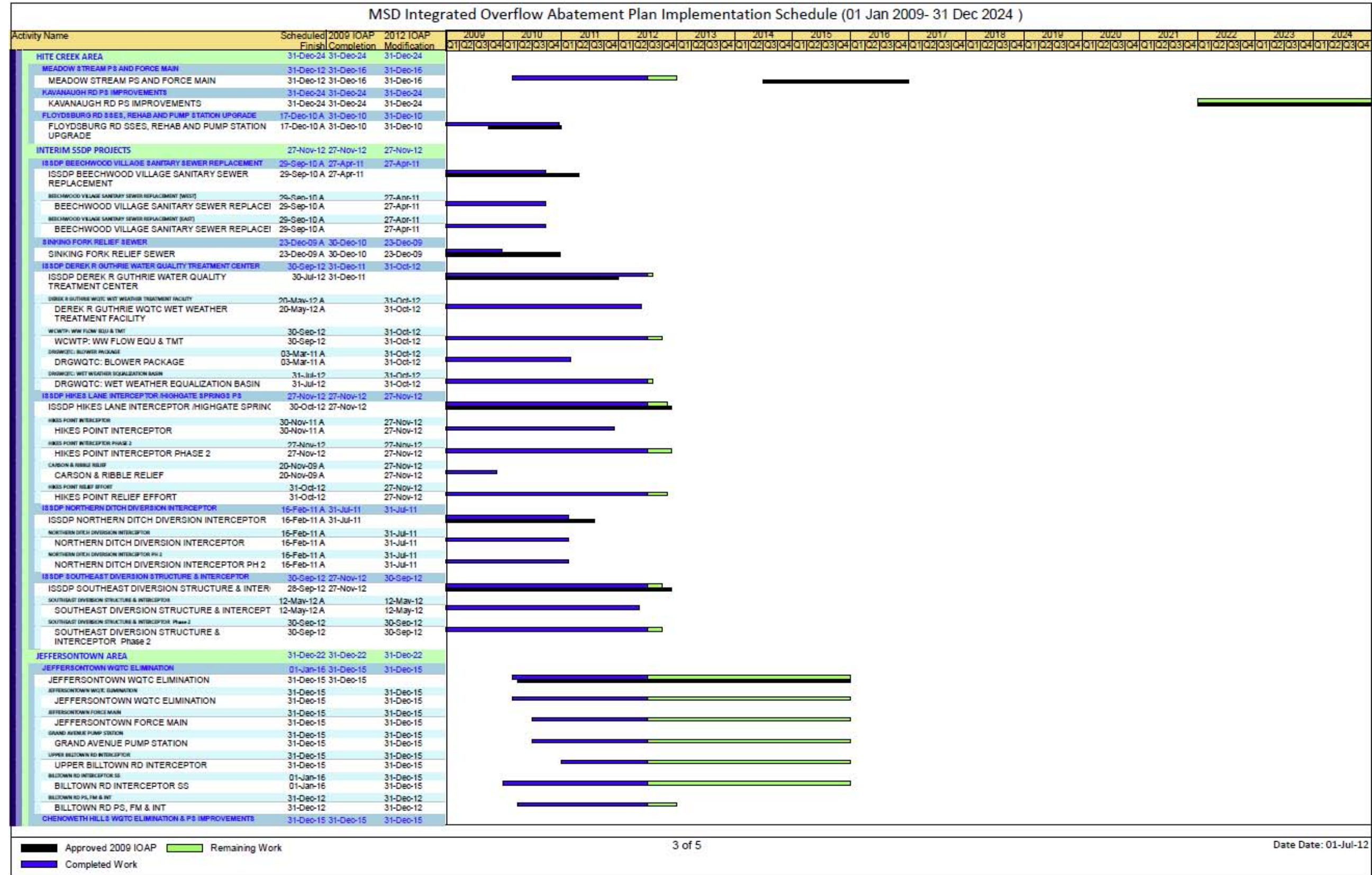
A green infrastructure tracking mechanism in the HANSEN system was implemented during the reporting period. HANSEN allows for scheduling of construction inspections, follow-up for correction of issues, and on-going long term inspections as required by the MS4 permit.

3.4 Activity Progress Chart

A Gantt chart showing the previous and Proposed IOAP Modification schedules (Refer to IOAP, Volume 1 – Figure 6.3.1 for the previous) for the entire program is provided below.







[illegible]

[illegible]

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

4.1 Public Notification Program

MSD has developed a program aimed at notifying the community of the objectives of Project WIN and how to lessen the risks associated with coming into contact with sewage overflows.

In April 2013, MSD completed the annual assessment and documentation of the overflow and water quality advisory signs. As part of this project, 1230 signs were inspected, 276 were cleaned, 133 repaired and 297 replaced.

4.2 Public Education Programs

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

During the reporting period, MetroTV aired programs detailing the IOAP Public Input Meetings (with presentations on the IOAP revisions), and a rain barrel installation video.

4.3 Public Outreach Programs

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

4.3.1 IOAP Project and Program Meetings

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

- Facilitated an IOAP meeting on September 24, 2013, at the MSD Central Maintenance Facility to discuss the proposed IOAP 2012 Modification, general project updates and updates to the Bells Lane High Rate Treatment Facility and the Southwestern Parkway Basin.
- Planned public meetings in November to discuss and receive comments on upcoming projects in the IOAP 2012 Modification and upcoming project planning efforts.

SECTION 5: Capacity Management Operations and Maintenance Report

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

The primary objectives of CMOM are as follows:

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

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

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

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

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

5.1 Management Programs

M-E-9 Infrastructure Rehabilitation

Activity details are provided in the CMOM schedule provided as **Section 5.4 – CMOM Activity Schedule**.

M-E-10 System Capacity Assurance Program (SCAP)

A current copy of the SCAP Credit Balance is included as **Appendix D**.

5.2 Operations Programs

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

Activity details are provided in the CMOM schedule provided as **Section 5.4 – CMOM Activity Schedule**.

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

Activity details are provided in the CMOM schedule provided as **Section 5.4 – CMOM Activity Schedule**.

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

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

5.3.1 Hite Creek Water Quality Treatment Center

During this reporting period, MSD has finalized the alternative analysis for both the collection and treatment systems in the area. During the next reporting period, MSD will begin scheduling public meetings to collect input from the residents in the vicinity of the WQTC regarding the findings and recommendations of the Facilities Plan Update.

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

5.3.2 Floyds Fork Water Quality Treatment Center

Construction of the Phase 2 Expansion of the Floyds Fork WQTC reached substantial completion. During the next reporting period, MSD expects that the project will reach final completion and the site restoration activities will be complete. The expansion project provides an average daily design capacity of 6.5 MGD.

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

5.3.3 Derek R. Guthrie Water Quality Treatment Center

During this reporting period, MSD has continued working on the Facilities Plan Update with the alternative analysis finalized and exhibits revised along with preparing an internal review of the document. During the next reporting period, the draft document will be reviewed by MSD staff and project schedule will be updated.

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

5.3.4 Cedar Creek Water Quality Treatment Center

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

5.3.5 Prospect Area Water Quality Treatment Center Updates

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

proceeding on the projects defined in the IOAP. See **Section 3 – Program Activities for Discharge Abatement Plans** for an update on the design and construction of the projects that make up the elimination plan for the Prospect Area WQTCs.

5.3.5.1 Timberlake Water Quality Treatment Center

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

5.3.5.2 Hunting Creek North Water Quality Treatment Center

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

5.3.5.3 Hunting Creek South Water Quality Treatment Center

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

5.3.5.4 Ken Carla Water Quality Treatment Center

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

5.3.5.5 Shadow Wood Water Quality Treatment Center

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

5.3.6 Jeffersontown Water Quality Treatment Center

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

5.3.7 Starview Water Quality Treatment Center

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

5.3.8 Berrytown Water Quality Treatment Center

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

5.3.9 Chenoweth Hills Water Quality Treatment Center

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

5.3.10 Other Water Quality Treatment Centers

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

- McNeely Lake WQTC – MSD has final construction drawings for the gravity elimination of the plant. The plant flows will be diverted to the existing Washington Green Pump Station which will require expansion. The pump station expansion and plant elimination costs are

not currently in the approved MSD budget. Discussions continue with a developer proposing to expand this pump station as part of a future development project. If the development does not occur, MSD will review the current budget for funds to eliminate the plant. During the next reporting period, MSD will continue discussions with the developer and continue to monitor the structural condition of the plant and perform remedial activities as needed coordinating with the proposed elimination schedule of December 31, 2014.

- Silver Heights WQTC – Advertised and awarded the construction contract for the elimination project. During the next reporting period, it is anticipated that construction activities will begin. MSD anticipates elimination will be completed by December 31, 2014.
- Bancroft WQTC – Initiated the design of a small pump station to eliminate the treatment plant. During the next reporting period, design of the elimination project will continue. MSD anticipates elimination will be completed by December 31, 2015, as budget allows.
- Glenview Bluff - Initiated the design of a small pump station to eliminate the treatment plant. During the next reporting period, design of the elimination project will continue. MSD anticipates elimination will be completed by December 31, 2015 as budget allows.

5.4 CMOM Activity Schedule

CMOM capital project milestones for the period of July 1, 2013, through September 30, 2013, as well as a look-ahead for the period of October 1, 2013, through March 31, 2014, are provided in the schedule below.

MSD CMOM FY13 Annual Commitments Schedule (01 Oct 2013 - 31 March 2014)													Date: 16-Oct-13
Activity ID	Activity Name	Physical % Complete	Start	Finish	2013						2014		
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
CMOM FY ANNUAL REPORT COMMITMENTS FINAL													
M-E-9 Infrastructure Rehabilitation													
St Matthews Interceptor I/I Rehabilitation Project (H12059)													
A2960	Warranty	100%	23-Aug-12 A	23-Aug-13 A									
Annual I/I FY 12 Project (H09205)													
A5080	Warranty	50%	01-Mar-13 A	01-Mar-14									
Annual I/I FY13 Project (H09206)													
A5090	Contract Administration	30%	19-Nov-12 A	31-Dec-13									
A5570	Camp Taylor 4	90%	15-Dec-12 A	01-Nov-13									
A5590	Stonybrook	100%	01-Mar-13 A	01-Oct-13 A									
A5630	5th Street Interceptor Cleaning	100%	01-May-13 A	01-Jul-13 A									
A5620	Pike Alley CIPP	85%	01-Jun-13 A	01-Nov-13									
A5600	Middle MH WT Lids	25%	01-Sep-13 A	01-Nov-13									
A5100	Warranty	0%	02-Jan-14*	02-Jan-15									
Lee Ann Way Interceptor I/I Rehabilitation Project (H12064)													
A3040	Warranty	10%	04-Jun-13 A	04-Jun-14									
Lee Ann Way East - Stonybrook Rehabilitation Project (C08433)													
A3910	Construction	100%	15-Dec-12 A	01-Oct-13 A									
A4020	Warranty	0%	01-Nov-13*	01-Nov-14									
Lake Forest Sanitary Sewer Rehabilitation Project (H11303)													
A3190	Construction	100%	01-Nov-12 A	30-Aug-13 A									
A3370	Warranty	8%	01-Sep-13 A	31-Aug-14									
Camp Taylor SSR Phase I Project (H09407)													
A3680	Warranty	100%	21-Sep-12 A	21-Sep-13 A									
Prospect Phase I Sanitary Sewer Rehabilitation Project (H11311)													
A3210	Ad	100%	15-Jul-13 A		◆								
A3220	Bld Open	100%	06-Aug-13 A			◆							
A3230	Award	100%	26-Aug-13 A				◆						
A3240	Construction	5%	23-Sep-13 A	23-Sep-14									
Meadow Stream Sanitary Sewer Rehabilitation Project (H11305)													
A4890	Ad	100%	30-Jul-13 A			◆							
A4900	Bld Open	100%	03-Sep-13 A										
A4920	Award	100%	23-Sep-13 A										
A4910	Construction	0%	01-Nov-13*	30-Apr-14									
Lee Ann Way East - Fegenbush Rehabilitation Project (C08433)													
A3960	Construction	100%	01-Dec-12 A	01-Oct-13 A									
A4010	Warranty	0%	01-Nov-13*	01-Nov-14									
Lee Ann Way East - Fern Creek Rehabilitation Project (C08433)													
A4160	Construction	100%	05-Oct-12 A	01-Oct-13 A									
A5690	Warranty	0%	01-Nov-13*	01-Nov-14									
Lee Ann Way East - Picadilly Rehabilitation Project (C08433)													
A4260	Construction	100%	15-Dec-12 A	31-Aug-13 A									
Caven Avenue Rehab Project (H11304)													
A5280	Award	100%	22-Jul-13 A	31-Jan-14		◆							
A5290	Construction	65%	03-Sep-13 A	31-Jan-14									
Beargrass Interceptor Rehab Project (H09207)													
A5360	Design	100%	01-May-13 A	31-Aug-13 A									
A5370	Ad	0%	15-Oct-13*					◆					

1 of 3

Date Date: 01-Oct-13

MSD CMOM FY13 Annual Commitments Schedule (01 Oct 2013 - 31 March 2014)													Date: 16-Oct-13
Activity ID	Activity Name	Physical % Complete	Start	Finish	2013						2014		
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
A5380	Bld Open	0%	15-Nov-13*						◆				
A5390	Award	0%	15-Dec-13*							◆			
A5400	Construction	0%	15-Jan-14*	01-Nov-14									
Berrytown Rehab Project (H11299)				01-Jul-13 A	15-Jun-14								
A5460	Design	100%	01-Jul-13 A	01-Sep-13 A									
A5500	Construction	0%	15-Jan-14*	15-Jun-14									
Starview Rehab Project (H11312)				01-Aug-13 A	15-Jul-15								
A5510	Design	90%	01-Aug-13 A	01-Nov-13									
A5550	Construction	0%	15-Feb-14*	15-Jul-15									
Camp Taylor Area 3 Rehab Project (H09218)				20-Aug-13 A	31-Dec-14								
A5420	Ad	100%	20-Aug-13 A			◆							
A5430	Bld Open	100%	01-Oct-13 A				◆						
A5440	Award	0%	14-Nov-13*						◆				
A5450	Construction	0%	14-Dec-13*	31-Dec-14									
Annual I/I FY14 Project (H14184)				23-Sep-13 A	01-Dec-14								
A5700	Ad	100%	23-Sep-13 A				◆						
A5710	Bld Open	0%	15-Oct-13*					◆					
A5720	Award	0%	25-Nov-13*						◆				
A5730	Construction	0%	01-Dec-13*	01-Dec-14									
FY13 ICA Project				01-Jun-12 A	31-Dec-13								
A4410	Planning	95%	01-Jun-12 A	31-Dec-13									
Goose Creek PS SSES (H11407)				01-Oct-12 A	30-Jun-14								
A4950	Planning	60%	01-Oct-12 A	30-Jun-14									
Nightingale PS SSES (H11313)				01-Feb-13 A	30-Jun-14								
A5110	Planning	30%	01-Feb-13 A	30-Jun-14									
Pump Station Operations Programs				26-Mar-12 A	30-Aug-14								
O-A-2 Emergency Operation Programs				26-Mar-12 A	30-Aug-14								
Trinity Homes Pump Station Emergency Generator & Access Road (H11440)				17-Jan-13 A	14-Jan-14								
A2310	Warranty	80%	17-Jan-13 A	14-Jan-14									
Trinity Homes Pump Station Roof Hatch (H11440)				24-Apr-13 A	23-Aug-14								
A4640	Construction	100%	24-Apr-13 A	28-Aug-13 A									
A5560	Warranty	15%	29-Aug-13 A	23-Aug-14									
Northern Ditch Diversion Structure Flow Meter Manhole Project (H13033)				16-Apr-13 A	16-Apr-14								
A5120	Warranty	50%	16-Apr-13 A	16-Apr-14									
34th Street FPS Gate Actuator Replacement Project (H09352)				19-Nov-12 A	30-Nov-13								
A5130	Warranty	90%	19-Nov-12 A	30-Nov-13									
Royster Basin Access Road Project (H09365)				16-Jan-13 A	16-Jan-14								
A5200	Warranty	80%	16-Jan-13 A	16-Jan-14									
Royster Basin Generator Project (H09365)				26-Mar-12 A	31-May-14								
A4810	Design	100%	26-Mar-12 A	31-Jul-13 A									
A4820	Ad	0%	14-Oct-13*					◆					
A4850	Bld Open	0%	02-Nov-13*						◆				
A4830	Award	0%	20-Nov-13*							◆			
A4840	Construction	0%	01-Dec-13*	31-May-14									
St. Matthews #7 Pump Station Modification Project (H14211)				01-Jul-13 A	01-Apr-14								
A5790	Design	75%	01-Jul-13 A	31-Oct-13									
A5800	Ad	0%	01-Nov-13*						◆				
A5830	Bld Open	0%	18-Nov-13*							◆			

2 of 3

Date Date: 01-Oct-13

2 of 3

Date Date: 01-Oct-13

MSD CMOM FY13 Annual Commitments Schedule (01 Oct 2013 - 31 March 2014)											Date: 16-Oct-13			
Activity ID	Activity Name	Physical % Complete	Start	Finish	2013						2014			
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
A5810	Award	0%	01-Dec-13*											
A5820	Construction	0%	15-Dec-13*	01-Apr-14										
Gunpowder Pump Station FM Modification Project (H14211)														
A6040	Design	5%	01-Sep-13 A	31-Dec-13										
A6050	Ad	0%	15-Feb-14*											
Prospect Point Pump Station Access Road (H13084)														
A5140	Warranty	50%	16-Apr-13 A	16-Apr-14										
Brandies FPS Ventilation Modifications (H09352)														
A5020	Ad	0%	15-Oct-13*											
A5030	Bld Open	0%	01-Nov-13*											
A5040	Award	0%	15-Nov-13*											
A5050	Construction	0%	15-Dec-13*	01-May-14										
Valley Village PS Header Piping Improvements Project (H09352)														
A5000	Construction	100%	13-Mar-13 A	02-Jul-13 A										
A5060	Warranty	10%	03-Jul-13 A	03-Jul-14										
4th Street FPS Gate and Switch Gear Replacement Project (F12095)														
A5150	Design	95%	04-Jan-13 A	31-Oct-13										
A5160	Ad	0%	01-Nov-13*											
A5170	Bld Open	0%	01-Dec-13*											
A5180	Award	0%	16-Dec-13*											
A5190	Construction	0%	15-Jan-14*	30-Aug-14										
Shannon Run PS Elimination Project (B13132)														
A5300	Warranty	60%	01-Jun-13 A	01-Jun-14										
CPE/CPE Treatment Plant Activities														
Morris Forman WWTP Sampling Manholes (H09374)														
A4750	Design	100%	01-Sep-12 A	31-Mar-14										
A4710	Ad	0%	14-Oct-13*											
A4740	Bld Open	0%	01-Nov-13*											
A4720	Award	0%	18-Nov-13*											
A4730	Construction	0%	01-Dec-13*	31-Mar-14										
MFWQTP Rubbertown Sampling Manholes (H09374)														
A6090	Design	20%	02-Sep-13 A	01-Nov-13										
A6100	Ad	0%	01-Nov-13*											
A6130	Bld Open	0%	18-Nov-13*											
A6110	Award	0%	01-Dec-13*											
A6120	Construction	0%	15-Dec-13*	31-Mar-14										
Morris Forman Secondary Flume Replacement (H12047)														
A3270	Construction	100%	12-Sep-12 A	23-Aug-13 A										
Berrytown Tank Rehabilitation (H09374)														
A5350	Design	5%	01-Mar-13 A	30-Oct-13										
A5310	Ad	0%	15-Nov-13*											
A5320	Bld Open	0%	01-Dec-13*											
A5340	Award	0%	15-Dec-13*											
A5330	Construction	0%	15-Jan-14*	01-Apr-14										
Hillridge WTP Diversion Project (A13070)														
A5680	Warranty	80%	01-Dec-12 A	01-Dec-13										

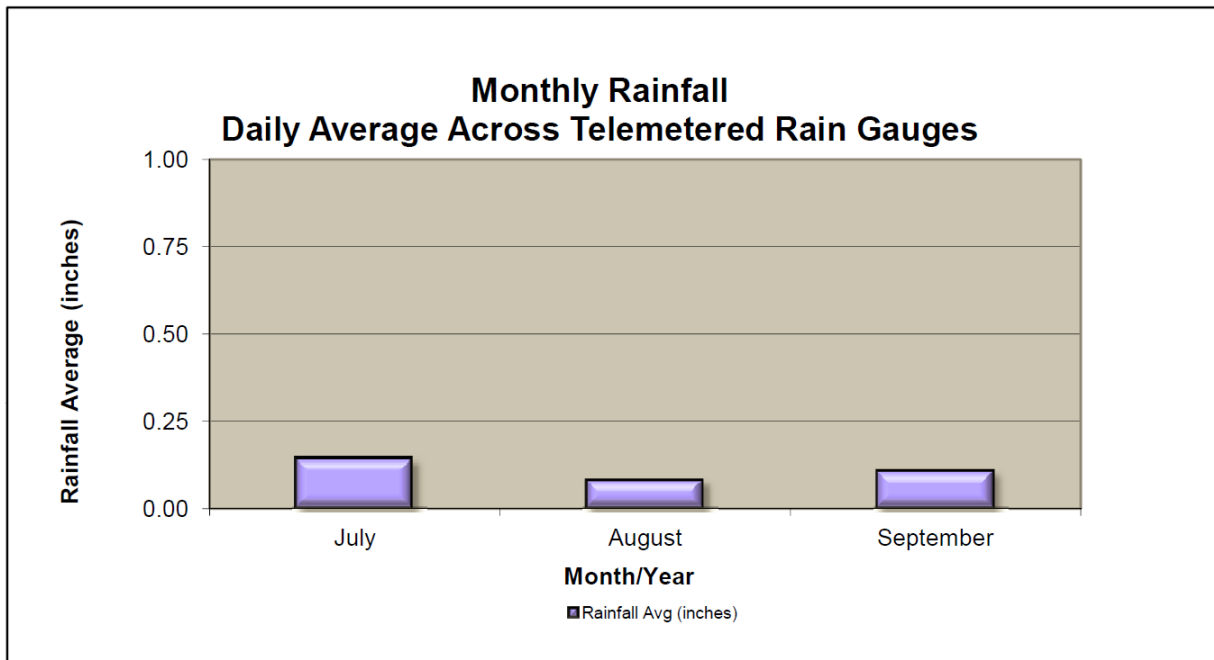
3 of 3

Date Date: 01-Oct-13

SECTION 6: Project WIN Performance Overview

6.1 Rainfall

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



6.2 Collection System Unauthorized Discharges

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

MSD recorded information related to overflows reaching Waters of the United States (WUS) 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. Details of these overflows will be included in the Annual Report for the period of July 1, 2013, through June 30, 2014, and will be posted on the Project WIN website. During this quarter, 37 overflows to the Waters of the United States (WUS) have been reported.

Unauthorized Discharges (Waters of the United States)			
Problem	Dry Weather	Wet Weather	Total
BLENDING AT JTOWN WQTC	0	4	4
ELECTRICAL PROBLEMS AT MSD	1	0	1
LACK OF SYSTEM CAPACITY	0	25	25
MECHANICAL FAILURE	1	0	1
OBSTRUCTION-NOT GREASE / ROOTS	2	0	2
ROOTS	1	0	1
STRUCTURAL FAILURE	3	0	3
Total	8	29	37

6.2.2 Overflows to Ground (EXT)

MSD recorded information related to overflows to the ground that did not reach waters of the United States for the reporting period. This information is entered and maintained 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, 2013, through June 30, 2014.

6.2.3 Overflows to Interior (INT)

MSD recorded information related to overflows to building interiors for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows, that are the result of an issue in the main line, will be included in the Annual Report for the period of July 1, 2013, through June 30, 2014.

6.2.4 Dry Weather CSOs

MSD recorded information related to dry weather overflows from permitted combined sewer overflow outfalls. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. A detailed report of these overflows will be included in the Annual Report for the period of July 1, 2013, through June 30, 2014. The table below summarizes dry weather CSOs that occurred during the quarter. Appendix A-1 includes details on the dry weather overflows that occurred in the quarter.

Dry Weather CSO - July 1, 2013 - September 30, 2013					
CSO	Type of Discharge	Date/Time	Problem	Cause	Volume (GAL)
CSO015	DISDW	09/10/2013	ELECTRICAL PROBLEMS AT MSD	LG&E WORKING - SCHEDULED POWER OUTAGE TO BELLS LN PS, SYSTEM PUT IN MANUAL MODE; POWER CAME BACK; SYSTEM FAILED OPEN	6,000,000
CSO113	DISDW	07/26/2013	OBSTRUCTION-NOT GREASE / ROOTS	OBSTRUCTION AT LOW FLOW MOUTH OF PIPE. LARGE NUMBER OF BRICKS AND STONE PILED UP AT MOUTH OF PIPE.	2,000
CSO113	DISDW	08/15/2013	OBSTRUCTION-NOT GREASE / ROOTS	OBSTRUCTION AT LOW FLOW MOUTH OF PIPE. LARGE NUMBER OF BRICKS AND STONE PILED UP AT MOUTH OF PIPE.	925

6.3 CSO Reductions

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

- No CSO reduction projects completed during the reporting period.

6.4 SSO Reductions

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

- Chenoweth Run Pump Station Elimination Project – Completed September 23, 2013 – Eliminated the following SSOs: 92061, MSD1043-PS, 13070113, 13070114, MSD0196-PS, 86052, 64096.

6.5 Gravity Line Preventive Maintenance

Each quarter, data and statistics relating to the cleaning, inspection, and maintenance of sewer assets performed under the Gravity Line Preventive Maintenance (GLPM) are reported. The following data was compiled for the period of July 1, 2013, through September 30, 2013. The first table includes data and targets. The second table includes unplanned maintenance and other maintenance activities that are performed in response to inspection.

Rolling quarterly GLPM performance is related to unplanned maintenance; therefore no targets have been developed.

Rolling Quarterly GLPM Performance With Targets							
	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Total	Target/ qtr	% of Annual Target
Combined Sewer Area							
Catch Basins Cleaned CSO Area - PM	5,347	7,358	9,499	4,861	27,065	4,460	27%
CSO Inspections	1,324	1,310	1,319	1,348	5,301	1,272	26%
Sanitary Sewer Area							
Catch Basins Cleaned SSO Area - PM	2,726	1,400	2,329	1,587	8,042	1,144	35%
County Wide							
Sewer Main Inspections MSD Crews (LF)	218,158	81,148	260,951	294,960	855,217	198,000	37%
Sewer Main Inspections Contractor (LF)	391,938	98,656	0	183,976	674,570	198,000	23%
Total Inspections (LF)	610,096	179,804	260,951	478,936	1,529,787	396,000	30%

Rolling Quarterly GLPM Performance					
	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Total
Combined Sewer Area					
Catch Basins Cleaned CSO Area - UM	352	85	238	291	966
CSO Debris Removal WO	108	112	99	152	471
Chemical Root Treatment CSO Area (LF)	20,264	7,894	797	0	28,954
Root Cutting CSO Area (LF)	11,965	815	40	3,293	16,113
Flushing and Cleaning of Sewer Mains CSO Area (LF)	12,375	4,224	5,586	11,282	33,467
Sanitary Sewer Area					
Catch Basins Cleaned SSO Area - UM	83	91	83	96	353
Chemical Root Treatment SSO Area (LF)	70,548	208,106	88,669	0	365,324
Root Cutting SSO Area (LF)	53,122	34,368	13,919	14,517	115,927
Flushing and Cleaning of Sewer Mains SSO Area (LF)	25,077	21,544	32,037	23,146	101,804

6.6 Water Quality Treatment Center Bypasses

6.6.1 Bypass Events

No bypasses occurred in the reporting period.

6.6.2 Bypass Corrective Actions

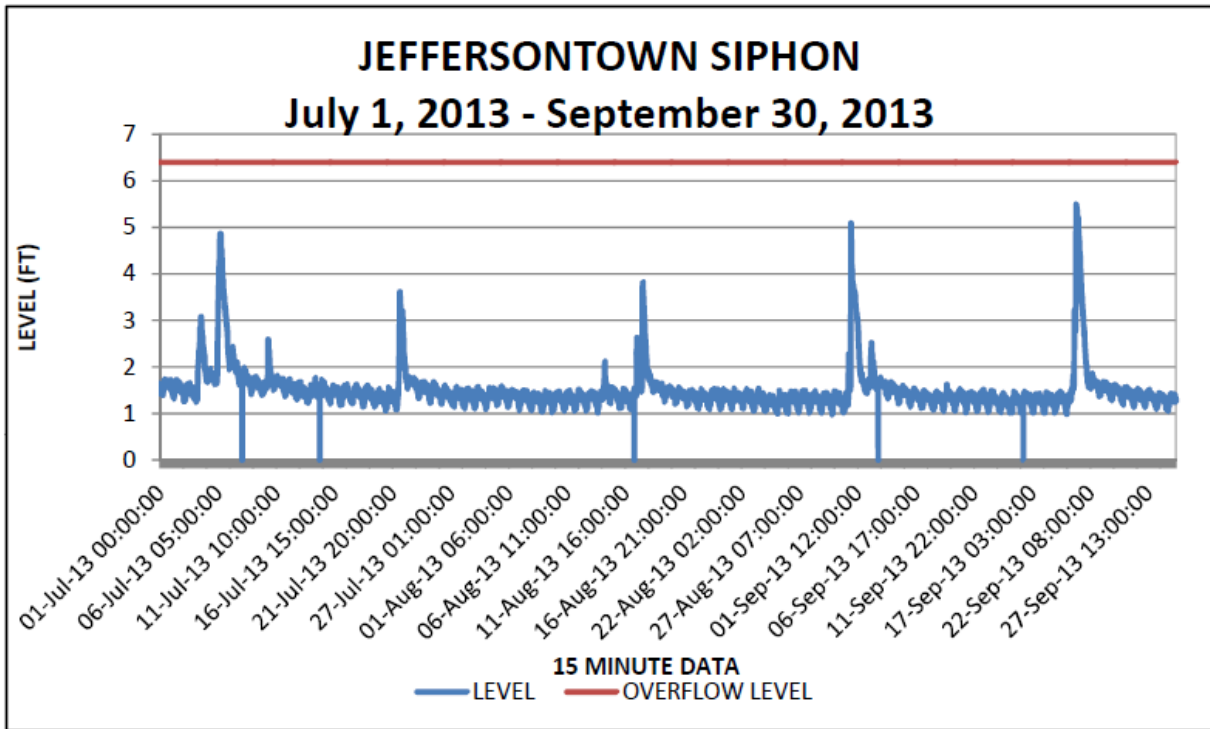
Each quarter, an assessment of bypasses will occur to determine the root cause of the bypass, the failure category, corrective actions to be taken, possible programmatic solutions, and corrective action completion date. Refer to the table below for causes of bypasses and respective corrective actions that occurred July 1, 2013, through September 30, 2013.

Bypass Summary - July 1, 2013 to September 30, 2013		
DATE/TIME	BYPASS DESCRIPTION	FAILURE RESOLUTION
Capacity (CAP)		
	No bypasses of this category occurred during the reporting period.	N/A
Facility Failure (Mechanical - MCH, Electrical - ELE, Structural - SRT)		
	No bypasses of this category occurred during the reporting period.	N/A

External Power failures (LGE Related-PWR)		
	No bypasses of this category occurred during the reporting period.	N/A
Human Error (OPN)		
	No bypasses of this category occurred during the reporting period.	N/A
Utility Damage		
	No bypasses of this category occurred during the reporting period.	N/A

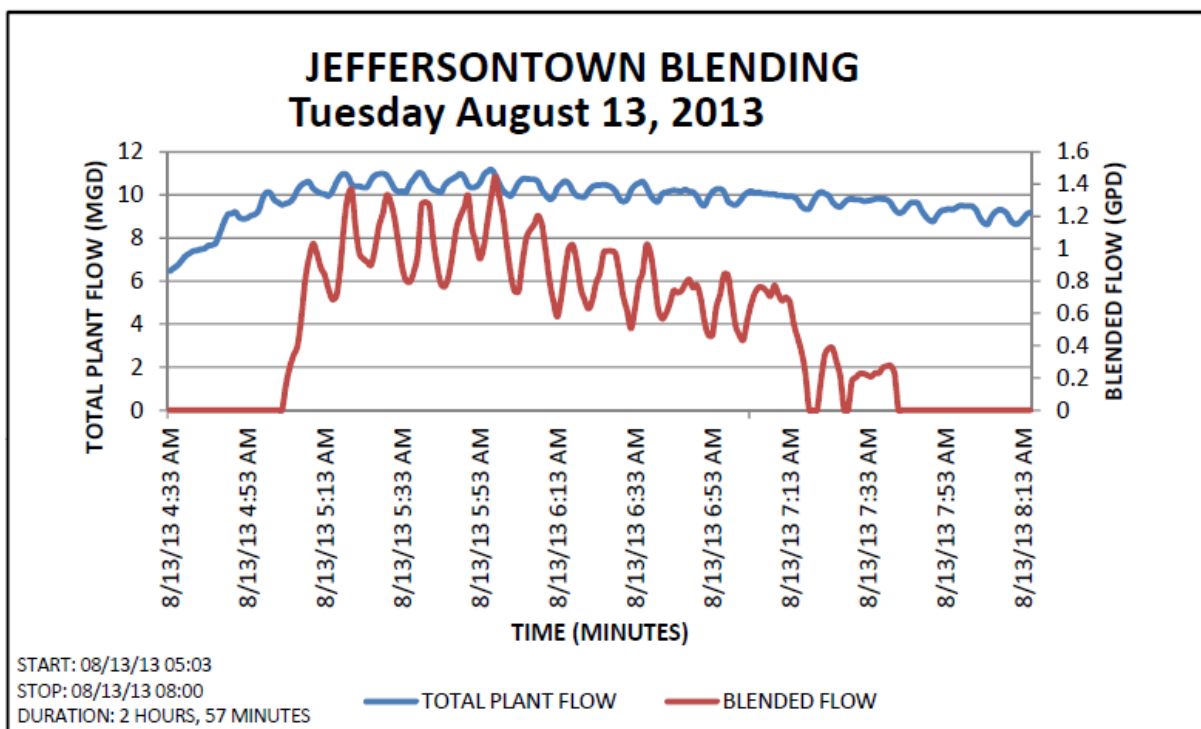
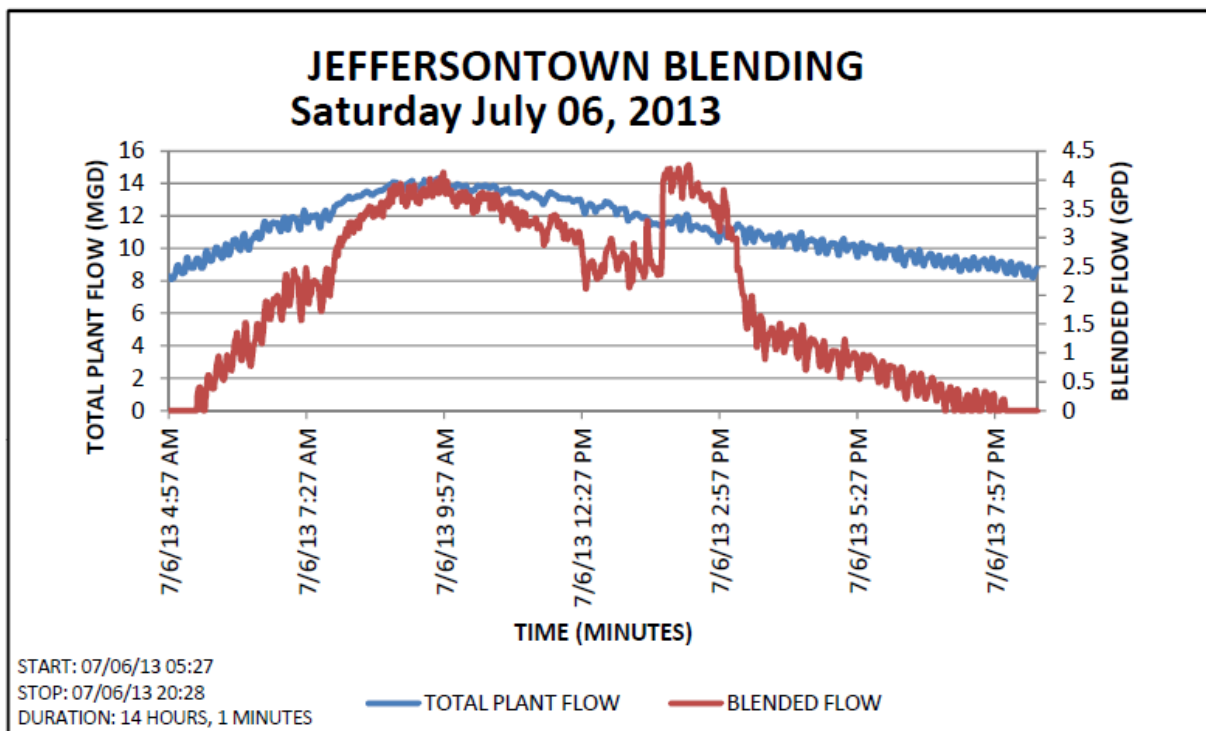
6.6.3 Jeffersontown Water Quality Treatment Center

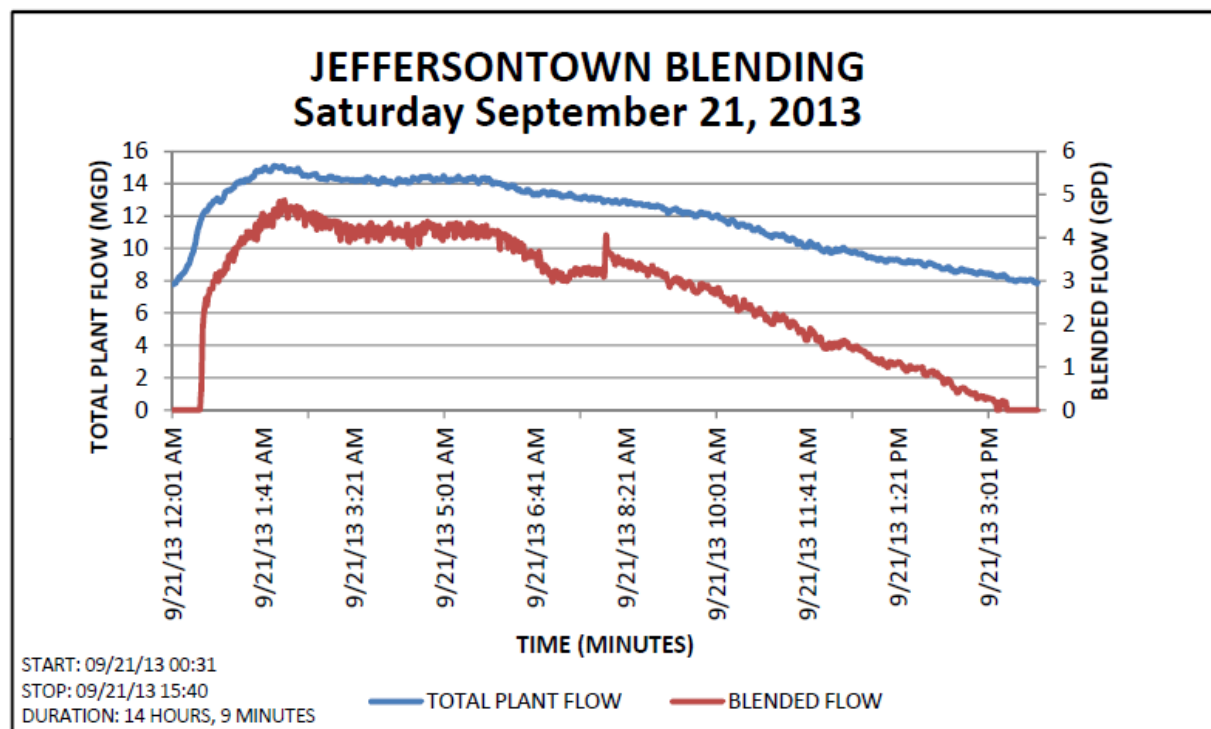
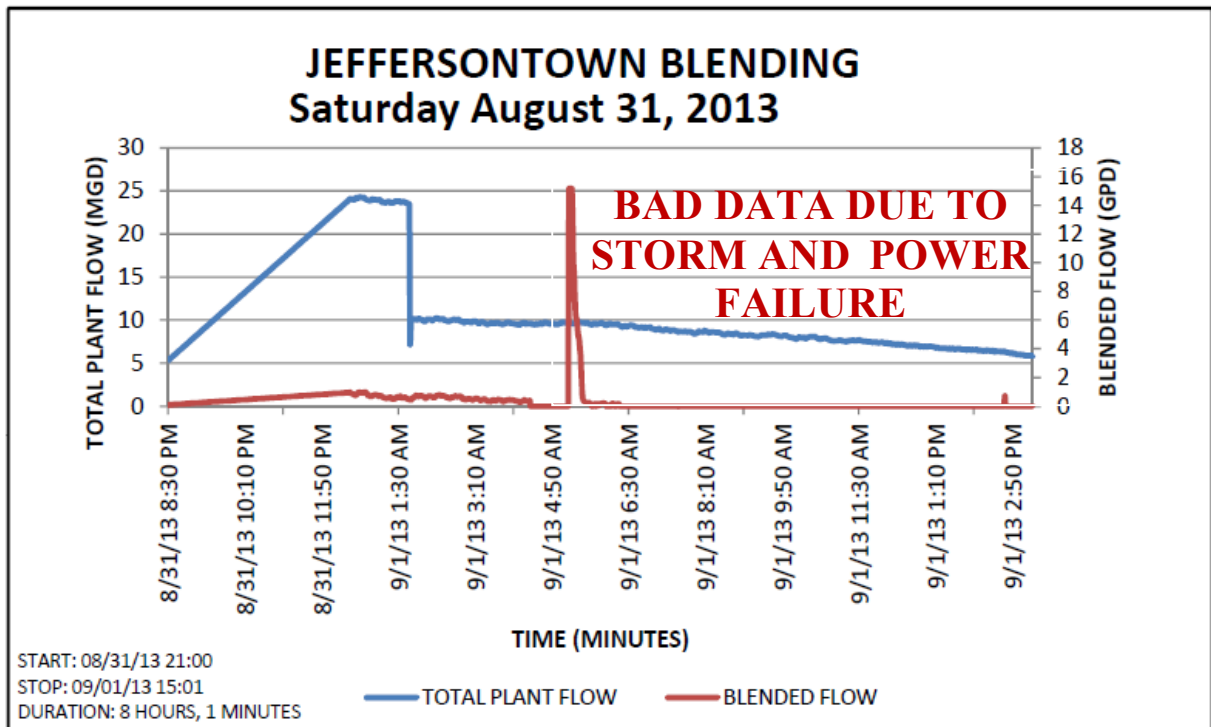
MSD submitted a Jeffersontown WQTC Process Control Plan on October 31, 2008, as required by paragraph 26.a of the Amended Consent Decree. MSD received comments on December 12, 2008, and resubmitted the plan January 16, 2009, and again on February 20, 2009. MSD received conditional approval of this document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



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

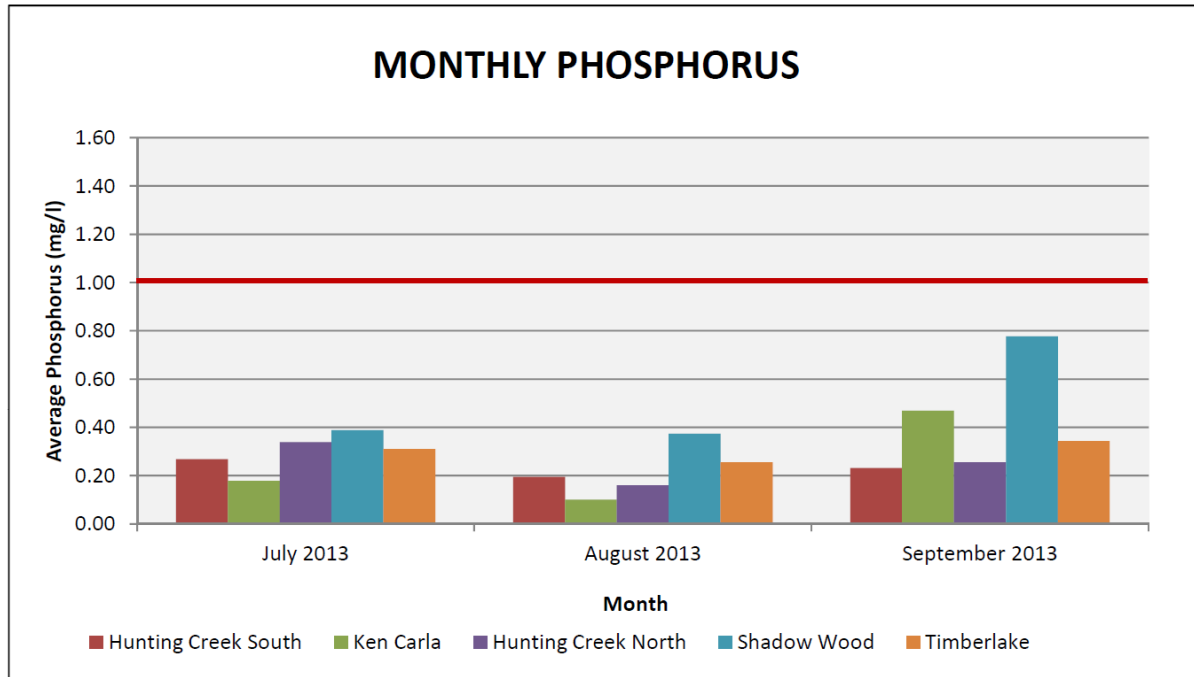
- Inspections were conducted upstream of the Jeffersontown WQTC Headworks three times (May 10, 2013, June 17, 2013 & June 26, 2013). Three overflows were reported as a result of the inspections. All three overflows occurred at manhole 28173 (not associated with the siphon).
- There were six blending events during the reporting period. Below are charts for each blending event that show total plant flow during the blending event.





6.7 Phosphorus Monitoring at the Prospect WQTCs

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





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



APPENDIX A-1

UNAUTHORIZED DISCHARGES

TO WATERS OF UNITED STATES

JULY 1, 2013 THROUGH SEPTEMBER 30, 2013

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
MORRIS FORMAN	KY0022411	4010 BELLS LN	9/10/13 12:36 PM	09/10/13 01:09 PM	6,000,000	Sewer Manhole	CSO015	STREAM	OHIO RIVER	LG&E WORKING - SCHEDULED POWER OUTAGE TO BELLS LN PS, SYSTEM PUT IN MANUAL MODE; POWER CAME BACK; SYSTEM FAILED OPEN	ELECTRICAL PROBLEMS AT MSD	2008030	PIPE DISCHARGE SUBMERGED; CLEANUP NOT POSSIBLE	PUT GATES IN MANUAL MODE AT PS AND FORCED GATES CLOSED
MORRIS FORMAN	KY0022411	1215 ELLISON AVE	7/26/13 9:50 AM	07/26/13 10:30 AM	2,000	Sewer Manhole	CSO113	STREAM	SOUTH FORK BEARGRASS CREEK	OBSTRUCTION AT LOW FLOW MOUTH OF PIPE. LARGE NUMBER OF BRICKS AND STONE PILED UP AT MOUTH OF PIPE.	OBSTRUCTION-NOT GREASE / ROOTS	1951096	NO CLEAN UP NECESSARY, CSO DISCHARGES DIRECTLY INTO IMPROVED CHANNEL OF BEARGRASS CREEK.	LOW FLOW PIPE WAS FLUSHED TO MITIGATE OVERFLOW, INITIATING A TVI WORK ORDER TO TRY TO DETERMINE WHERE BRICK CAME FROM.
MORRIS FORMAN	KY0022411	1215 ELLISON AVE	8/15/13 12:49 PM	08/15/13 01:26 PM	925	Sewer Manhole	CSO113	STREAM	SOUTH FORK BEARGRASS CREEK	OBSTRUCTION AT LOW FLOW MOUTH OF PIPE. LARGE NUMBER OF BRICKS AND STONE PILED UP AT MOUTH OF PIPE.	OBSTRUCTION-NOT GREASE / ROOTS	1996574	NO CLEAN UP NECESSARY, CSO DISCHARGES DIRECTLY INTO IMPROVED CHANNEL OF BEARGRASS CREEK.	LOW FLOW PIPE WAS FLUSHED TO MITIGATE OVERFLOW, INITIATING A TVI WORK ORDER TO TRY TO DETERMINE WHERE BRICK CAME FROM.

Appendix A-2 - Discharge Work Orders – Bypass

APPENDIX A-2
UNAUTHORIZED DISCHARGES
TO WATERS OF UNITED STATES
JULY 1, 2013 THROUGH SEPTEMBER 30, 2013

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
		THERE WERE NO BYPASS EVENTS FOR THE PERIOD JULY 1, 2013 - SEPTEMBER 30, 2013												

Appendix A-3 - Discharge Work Orders – Blending

APPENDIX A-3
UNAUTHORIZED DISCHARGES
TO WATERS OF UNITED STATES
JULY 1, 2013 THROUGH SEPTEMBER 30, 2013

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	07/06/13 5:27: AM	07/06/13 08:28 PM	1318047	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	1944700	PIPE DISCHARGE SUBMERGED- NO CLEANUP	TEMPORARY BLENDING HAS BEEN NEGOTIATED AT THIS LOCATION WHEN FLOW THROUGH THE PLANT HAS BEEN OPTIMIZED DURING WET WEATHER.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	08/13/13 5:03: AM	08/13/13 08:00 AM	82844	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	1995620	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	TEMPORARY BLENDING HAS BEEN NEGOTIATED AT THIS LOCATION WHEN FLOW THROUGH THE PLANT HAS BEEN OPTIMIZED DURING WET WEATHER
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	08/31/13 9:00: PM	09/01/13 03:01 PM	227989	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	POWER OUTAGE DUE TO LIGHTENING AND HEAVY RAIN	BLENDING AT JTOWN WQTC	2005139	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	POWER RESTORED; RAIN SUBSIDED
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	09/21/13 12:31: AM	09/21/13 03:40 PM	1778728	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY CAUSED BY STORM EVENT	BLENDING AT JTOWN WQTC	2016731	NO CLEAN UP REQUIRED	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION



Appendix A-4 - Discharge Work Orders – Waters of the United States



APPENDIX A-4
UNAUTHORIZED DISCHARGES
TO WATERS OF UNITED STATES
JULY 1, 2013 THROUGH SEPTEMBER 30, 2013

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
JEFFERSONTOWN	KY0025194	3258 RUCKRIEGEL PKY	09/21/13 1:35: AM	09/21/13 08:44 AM	1000	Sewer Manhole	28173	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2016709	DISCLN WO# 2016795	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3506 CHARLANE PKY	09/21/13 7:15: AM	09/21/13 09:50 AM	3000	Sewer Manhole	28250	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2016717	DISCLN WO# 2016810	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	9707 WILLOWWOOD WAY	09/21/13 2:37: AM	09/21/13 09:08 AM	24500	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2016712	DISCLN WO# 2016804	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	11401 GRAND AVE	09/21/13 2:06: AM	09/21/13 07:00 AM	31000	Sewer Manhole	28551	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2016711	DISCLN WO# 2016799	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3200 RUCKRIEGEL PKY	09/21/13 2:22: AM	09/21/13 08:48 AM	9000	Sewer Manhole	64505	STREAM	CHENOWETH RUN	LACK OF SYSEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2016710	DISCLN WO# 2016796	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	07/06/13 5:27: AM	07/06/13 08:28 PM	1318047	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	1944700	PIPE DISCHARGE SUBMERGED- NO CLEANUP	TEMPORARY BLENDING HAS BEEN NEGOTIATED AT THIS LOCATION WHEN FLOW THROUGH THE PLANT HAS BEEN OPTIMIZED DURING WET WEATHER.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	08/13/13 5:03: AM	08/13/13 08:00 AM	82844	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF CAPACITY DUE TO RAIN EVENT	BLENDING AT JTOWN WQTC	1995620	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	TEMPORARY BLENDING HAS BEEN NEGOTIATED AT THIS LOCATION WHEN FLOW THROUGH THE PLANT HAS BEEN OPTIMIZED DURING WET WEATHER
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	08/31/13 9:00: PM	09/01/13 03:01 PM	227989	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	POWER OUTAGE DUE TO LIGHTENING AND HEAVY RAIN	BLENDING AT JTOWN WQTC	2005139	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	POWER RESTORED; RAIN SUBSIDED
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	09/21/13 12:31: AM	09/21/13 03:40 PM	1778728	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY CAUSED BY STORM EVENT	BLENDING AT JTOWN WQTC	2016731	NO CLEAN UP REQUIRED	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION
DEREK R. GUTHRIE	KY0078956	2312 EMBASSY LN	07/17/13 1:35: PM	07/17/13 02:35 PM	15	Sewer Manhole	04775	GROUND	MILL CREEK	Main sewer was obstructed with tree roots. While flushing main sewer to relieve the obstruction, sewage mixed with water discharged on the ground.	ROOTS	1948643	MSD personnel cleaned the impacted area, we raked and bagged the debris off the ground.	Flush work order # 1948651 was created to remove the tree root blockage in the main sewer.
DEREK R. GUTHRIE	KY0078956	3721 DIXIE HWY	07/21/13 1:17: AM	07/20/13 11:06 PM	10	Sewer Main	06940B-AG	GROUND	UPPER MILL CREEK	FORCE MAIN BREAK	MECHANICAL FAILURE	1949439	NO DEBRIS	HAULED STATION WHILE REPAIRS WERE MADE
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	07/06/13 10:00: AM	07/06/13 02:55 PM	30000	Sewer Manhole	27116	STREAM	MUD CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN	LACK OF SYSTEM CAPACITY	1944737	CREATED DISCLN W/O#1944739	A SOLUTION FOR THIS IS INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	09/21/13 3:42: AM	09/21/13 01:01 PM	108001	Sewer Manhole	27116	STREAM	MUD CREEK	lack of system capacity	LACK OF SYSTEM CAPACITY	2016708	msd to clean and sanitize affected area	area included in the ioap
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	09/21/13 3:25: AM	09/21/13 09:30 AM	23040	Sewer Manhole	31073	DITCH	FERN CREEK	lack of system capacity	LACK OF SYSTEM CAPACITY	2016705	msd to clean and sanitize affected area	location part of the ioap
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	09/21/13 3:33: AM	09/21/13 09:30 AM	34560	Sewer Manhole	31074	DITCH	FERN CREEK	lack of system capacity	LACK OF SYSTEM CAPACITY	2016706	msd to clean and sanitize affected area	location part of ioap
DEREK R. GUTHRIE	KY0078956	2423 LAMBORNE BLVD	08/06/13 3:30: PM	08/07/13 01:35 AM	30000	Sewer Main	79878	GROUND	POND CREEK	STRUCTURE FAILURE OF MAIN SEWER	STRUCTURAL FAILURE	1992894	MSD PERSONNEL CLEANED THE IMPACTED AREA	WORK ORDERS 1992573, FLUSHED AND REPAIRED THE MAIN SEWER
MORRIS FORMAN	KY0022411	3726 FINCASTLE RD	07/22/13 12:37: PM	07/22/13 08:49 PM	1000	Sewer Manhole	08717	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1949744	DISCLN WO# 1950057	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1001 BRECKENRIDGE LN	07/06/13 10:29: AM	07/06/13 02:07 PM	126702	Sewer Manhole	08935-SM	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1944748	NO CLEAN UP PERFORMED – PIPE DISCHARGING UNDERWATER, DIRECTLY INTO STREAM	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4119 LEE AVE	07/22/13 12:31: PM	07/22/13 10:40 PM	40500	Sewer Manhole	104231	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1949736	DISCLN WO# 1950031	LOCATION INCLUDED IN THE IOAP

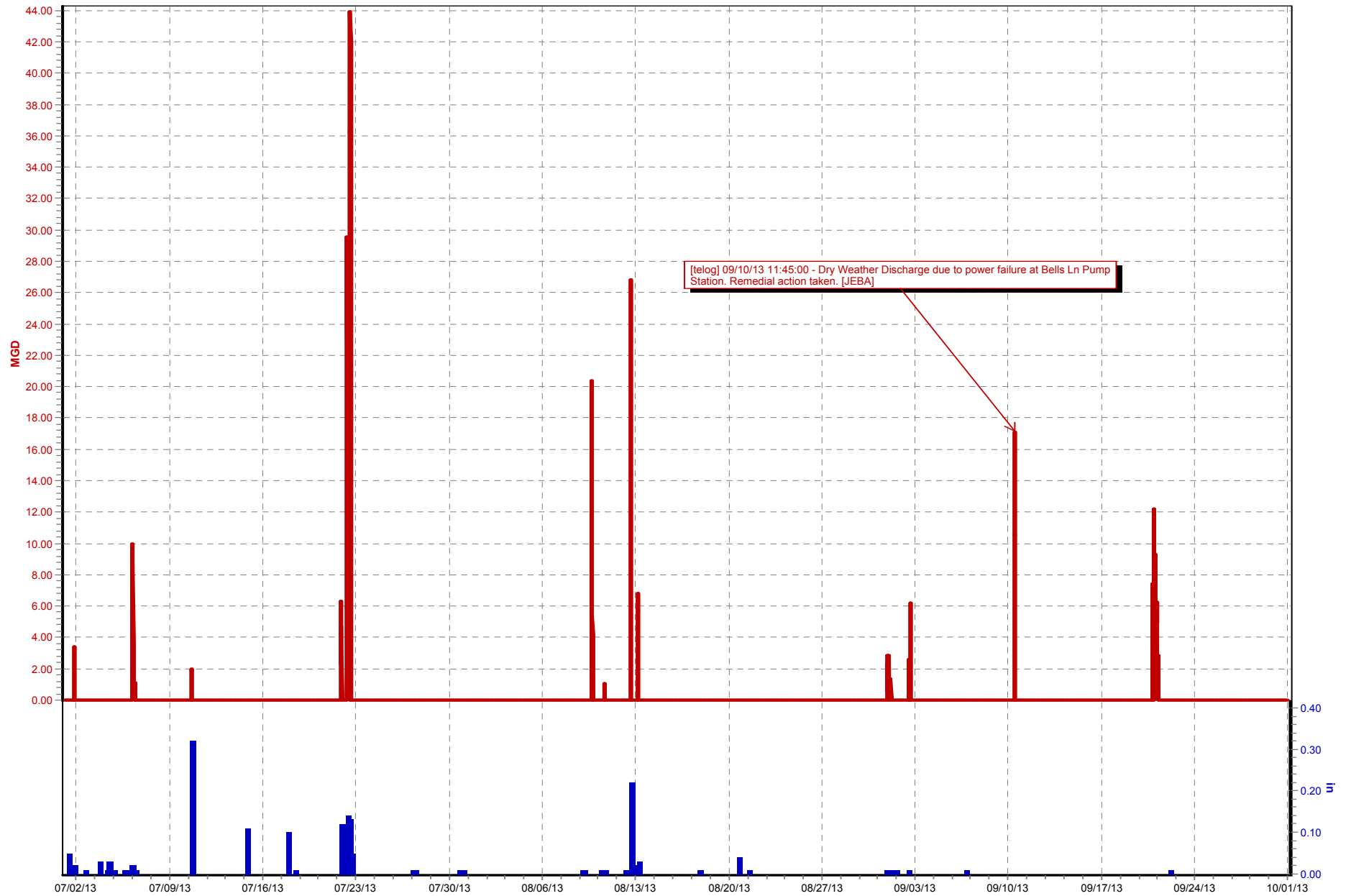
APPENDIX A-4
UNAUTHORIZED DISCHARGES
TO WATERS OF UNITED STATES
JULY 1, 2013 THROUGH SEPTEMBER 30, 2013

Associated Wastewater Treatment Plant Name	Associated Treatment Plant KPDES #	Overflow Location	Overflow Start Date & Time	Overflow Stop Date & Time	Volume of Overflow	Source Asset Type	Source Asset ID	Facility Discharges To	Receiving Stream	Cause of Overflow	Due To	WO #	Cleanup Efforts by MSD	Repair Efforts by MSD
MORRIS FORMAN	KY0022411	4119 LEE AVE	07/22/13 2:59: PM	07/22/13 06:24 PM	1000	Sewer Manhole	13943	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1949941	DISCLN WO# 1950076	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4119 LEE AVE	08/12/13 4:45: PM	08/12/13 06:50 PM	100	Sewer Manhole	13943	GROUND	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1995559	DISCLN WO# 1995626	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1012 ALTA CIR	07/10/13 4:15: PM	07/10/13 06:07 PM	4500	Sewer Manhole	27005	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1946003	DISCLN WO# 1946005	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1012 ALTA CIR	07/22/13 2:55: PM	07/22/13 06:20 PM	22000	Sewer Manhole	27005	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1949944	DISCLN WO# 1950068	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3530 FINCASTLE RD	07/22/13 2:48: PM	07/22/13 08:49 PM	3000	Sewer Manhole	36763	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1949942	DISCLN WO# 1950079	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1132 ROSTREVOR CIR	07/22/13 3:00: PM	07/22/13 06:05 PM	10500	Sewer Manhole	45835	GROUND	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1949943	DISCLN WO# 1950084	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	201 BULLITT LN	07/06/13 10:25: AM	07/06/13 04:50 PM	19000	Sewer Manhole	47582	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1944745	DISCLN WO# 1944776	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	202 OXMOOR LN	07/06/13 10:25: AM	07/06/13 04:50 PM	32500	Sewer Manhole	47583	STREAM	MIDDLE FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1944746	DISCLN WO# 1944778	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1418 TREVILIAN WAY	07/22/13 12:42: PM	07/22/13 09:00 PM	6000	Sewer Manhole	51594	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1949755	DISCLN WO# 1950063	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	1418 TREVILIAN WAY	09/21/13 12:38: AM	09/21/13 05:10 AM	19500	Sewer Manhole	51594	DITCH	SOUTH FORK BEARGRASS CREEK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	2016716	DISCLN WO# 2016808	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3726 FINCASTLE RD	07/22/13 12:34: PM	07/22/13 08:47 PM	12000	Sewer Manhole	66349	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1949740	DISCLN WO# 1950054	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3536 FINCASTLE RD	07/22/13 12:40: PM	07/22/13 08:50 PM	1000	Sewer Manhole	99259	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1949748	DISCLN WO# 1950059	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	4010 BELLS LN	09/10/13 12:36: PM	09/10/13 01:09 PM	6000000	Sewer Manhole	CSO015	STREAM	OHIO RIVER	LG&E WORKING - SCHEDULED POWER OUTAGE TO BELLS LN PS, SYSTEM PUT IN MANUAL MODE; POWER CAME BACK; SYSTEM FAILED OPEN	ELECTRICAL PROBLEMS AT MSD	2008030	PIPE DISCHARGE SUBMERGED; CLEANUP NOT POSSIBLE	PUT GATES IN MANUAL MODE AT PS AND FORCED GATES CLOSED
MORRIS FORMAN	KY0022411	1215 ELLISON AVE	07/26/13 9:50: AM	07/26/13 10:30 AM	2000	Sewer Manhole	CSO113	STREAM	SOUTH FORK BEARGRASS CREEK	OBSTRUCTION AT LOW FLOW MOUTH OF PIPE. LARGE NUMBER OF BRICKS AND STONE PILED UP AT MOUTH OF PIPE.	OBSTRUCTION-NOT GREASE / ROOTS	1951096	NO CLEAN UP NECESSARY, CSO DISCHARGES DIRECTLY INTO IMPROVED CHANNEL OF BEARGRASS CREEK.	LOW FLOW PIPE WAS FLUSHED TO MITIGATE OVERFLOW, INITIATING A TVI WORK ORDER TO TRY TO DETERMINE WHERE BRICK CAME FROM.
MORRIS FORMAN	KY0022411	1215 ELLISON AVE	08/15/13 12:49: PM	08/15/13 01:26 PM	925	Sewer Manhole	CSO113	STREAM	SOUTH FORK BEARGRASS CREEK	OBSTRUCTION AT LOW FLOW MOUTH OF PIPE. LARGE NUMBER OF BRICKS AND STONE PILED UP AT MOUTH OF PIPE.	OBSTRUCTION-NOT GREASE / ROOTS	1996574	NO CLEAN UP NECESSARY, CSO DISCHARGES DIRECTLY INTO IMPROVED CHANNEL OF BEARGRASS CREEK.	LOW FLOW PIPE WAS FLUSHED TO MITIGATE OVERFLOW, INITIATING A TVI WORK ORDER TO TRY TO DETERMINE WHERE BRICK CAME FROM.
MORRIS FORMAN	KY0022411	4108 LEE AVE	07/22/13 12:32: PM	07/22/13 10:42 PM	600	Sewer Service Line	KK14815019	GROUND	CAMP TAYLOR DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1949738	DISCLN WO# 1950036	LOCATION INCLUDED IN THE IOAP
MORRIS FORMAN	KY0022411	3602 TRAIL RIDGE RD	08/27/13 12:35: PM	08/27/13 12:36 PM	50	Sewer Lift Station	MSD0125-PS	STREAM	LITTLE GOOSE CREEK	FORCE MAIN BREAK	STRUCTURAL FAILURE	2001991	MSD CLEANED & SANITIZED THE AREA	CONTRACTOR REPAIRING FORCE MAIN; MSD HAULING
FLOYDS FORK	KY0102784	912 EASTWOOD FISHERVILLE RD	07/25/13 10:00: AM	07/25/13 11:40 AM	10000	Sewer Main	96911-BH	GROUND	FLOYDS FORK	STRUCTURAL FAILURE OF FORCE MAIN	STRUCTURAL FAILURE	1950885	CONTRACTOR CLEANED & SANITIZED THE AREA	CONTRACTOR REPAIRING FORCE MAIN

Appendix B – CSO Flow Monitoring Data

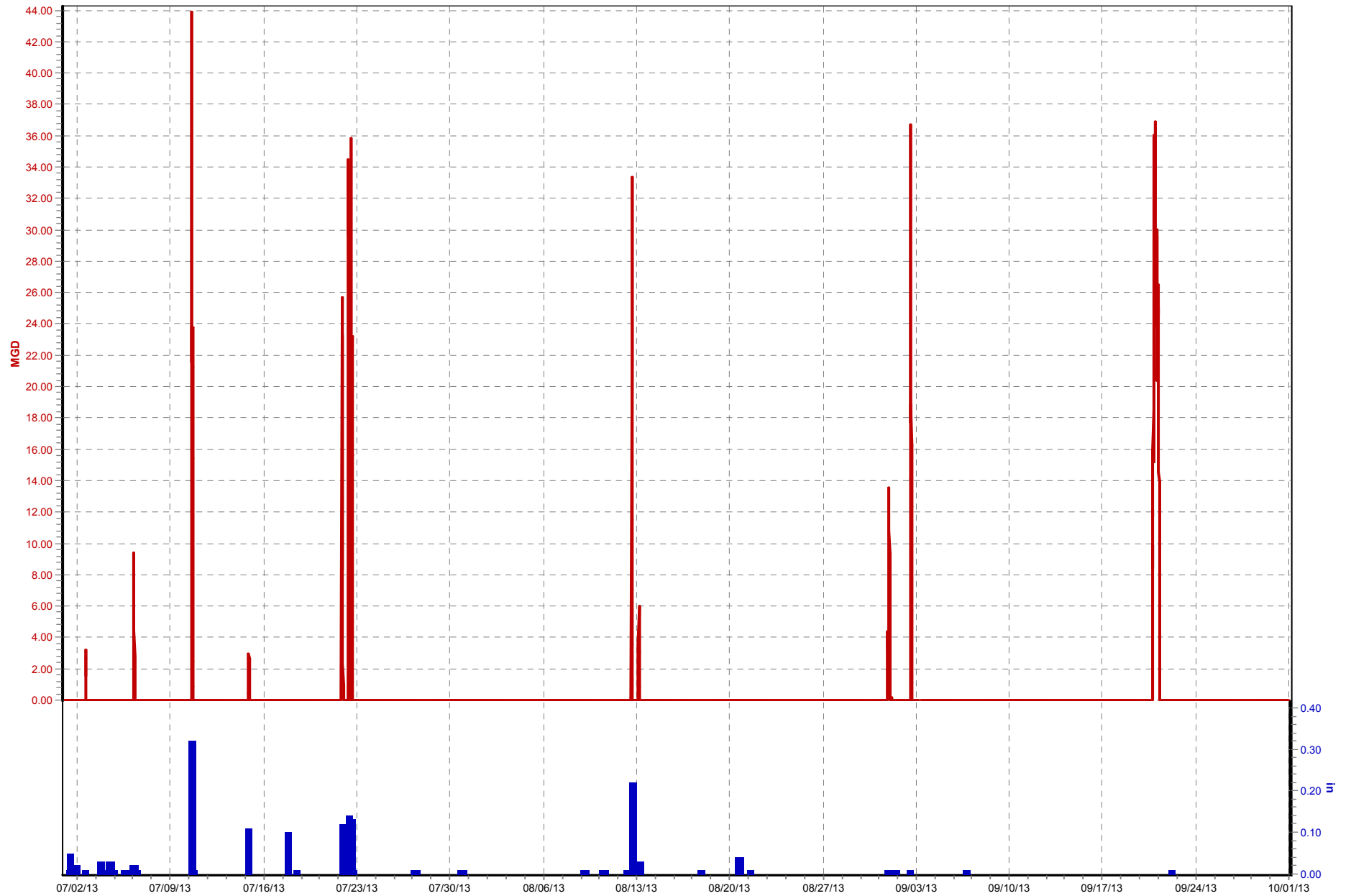
CSO015 Bell Lane (07/01/13 to 10/01/13)

☒ Flow (MGD)
 ☒ TR04_Morris Forman WQTC.Rain (in)



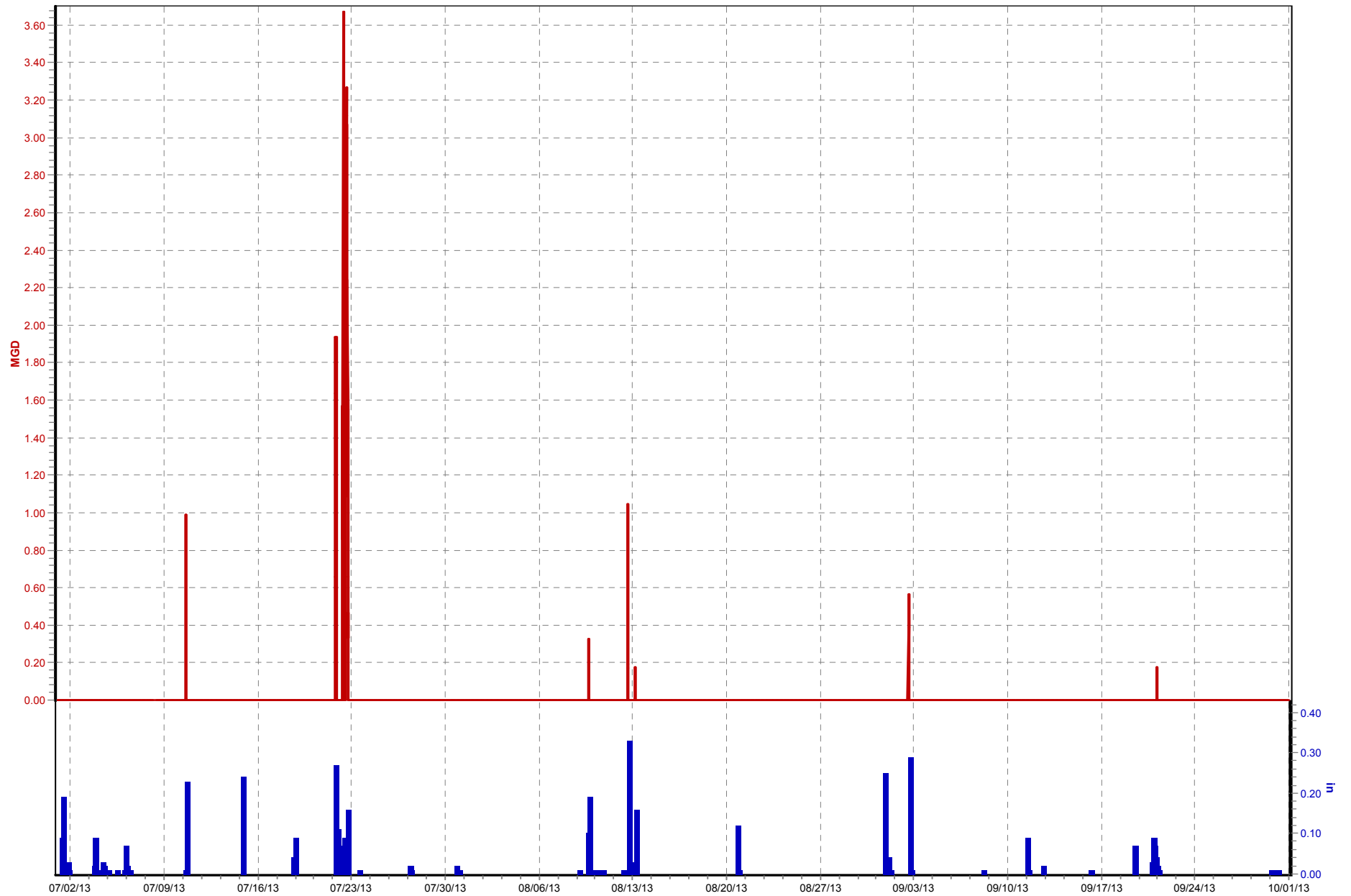
CSO016 Winnrose Way (07/01/13 to 10/01/13)

☒ CSO016 Flow (MGD) ☒ TR04_Morris Forman WQTC.Rain (in)



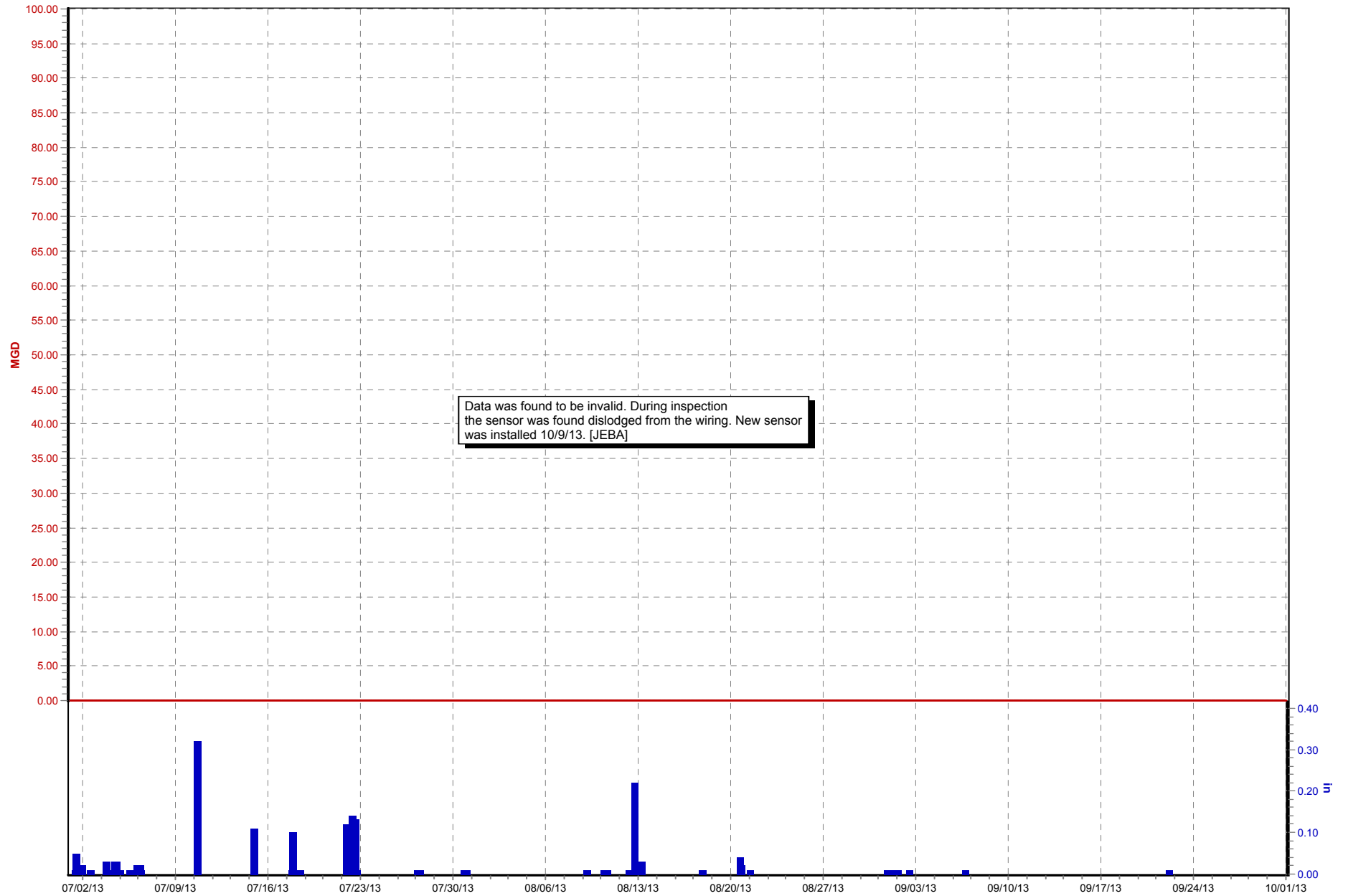
CSO018 Nightingale Rd (07/01/13 to 10/01/13)

☒ Nightingale PS.CSO018 Flow (MGD) ☒ TR12_Nightingale PS.Rain (in)



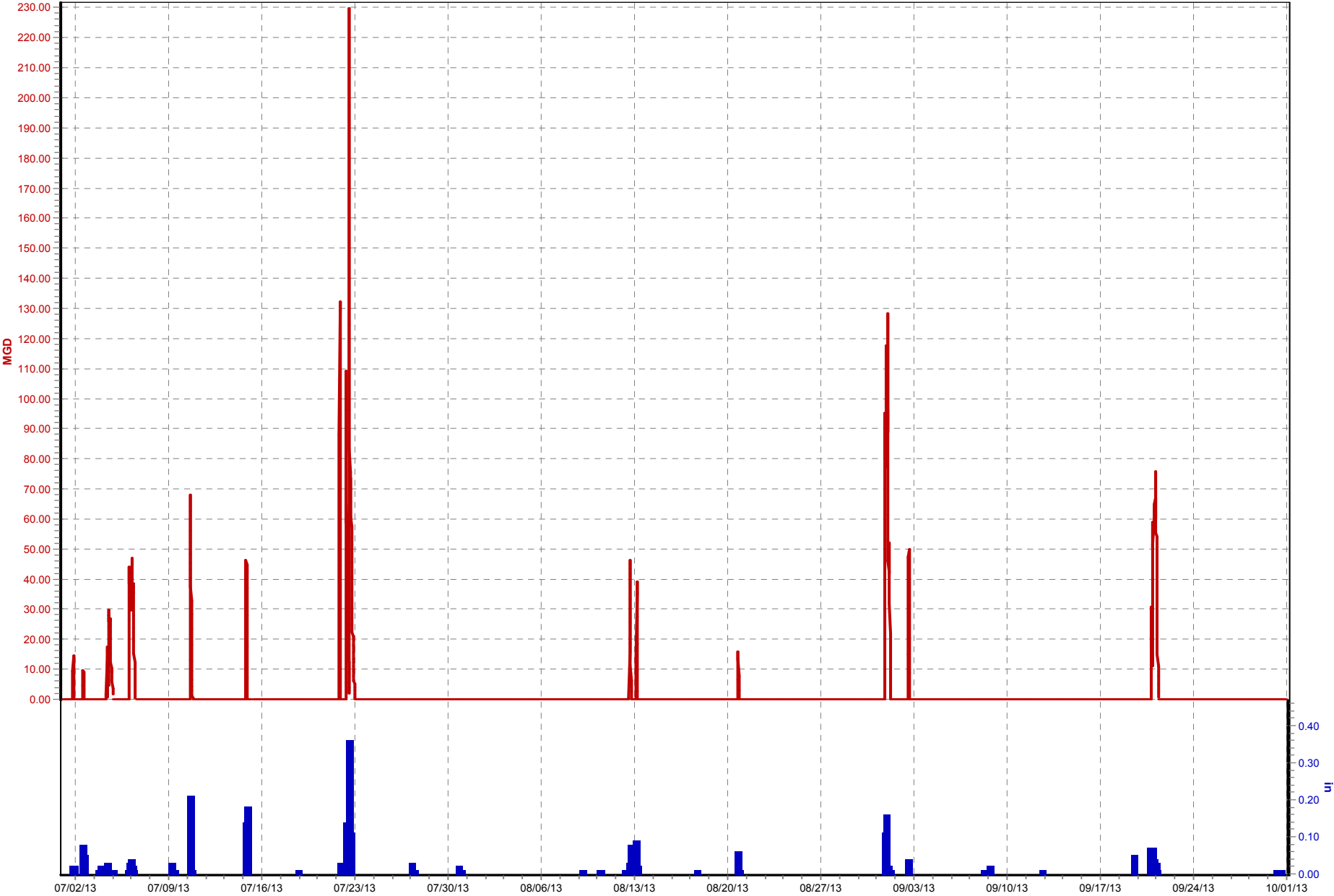
CSO019 34th and Rudd (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR04_Morris Forman WQTC.Rain (in)



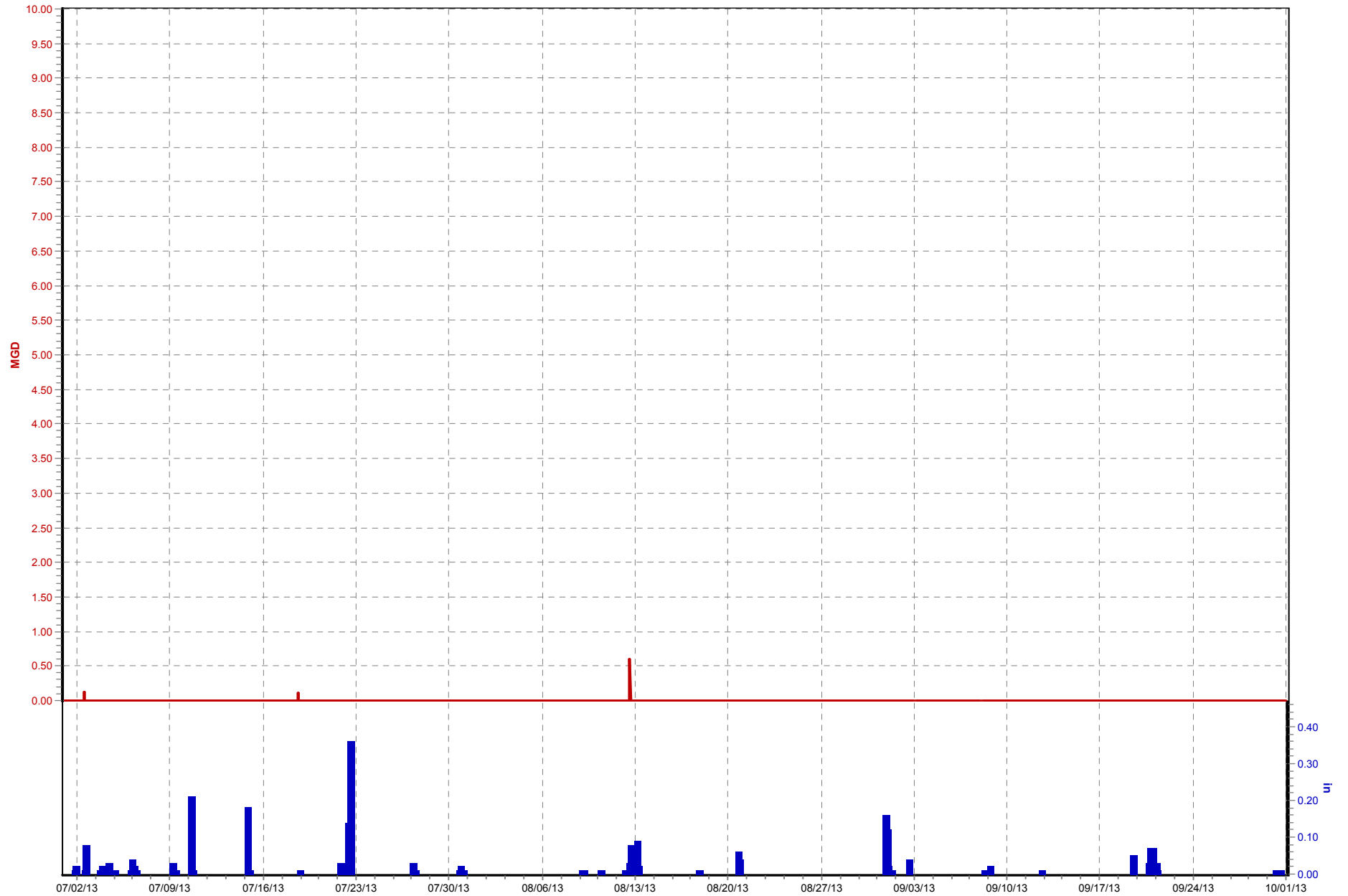
CSO020 Buchanan St by Stark PS (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



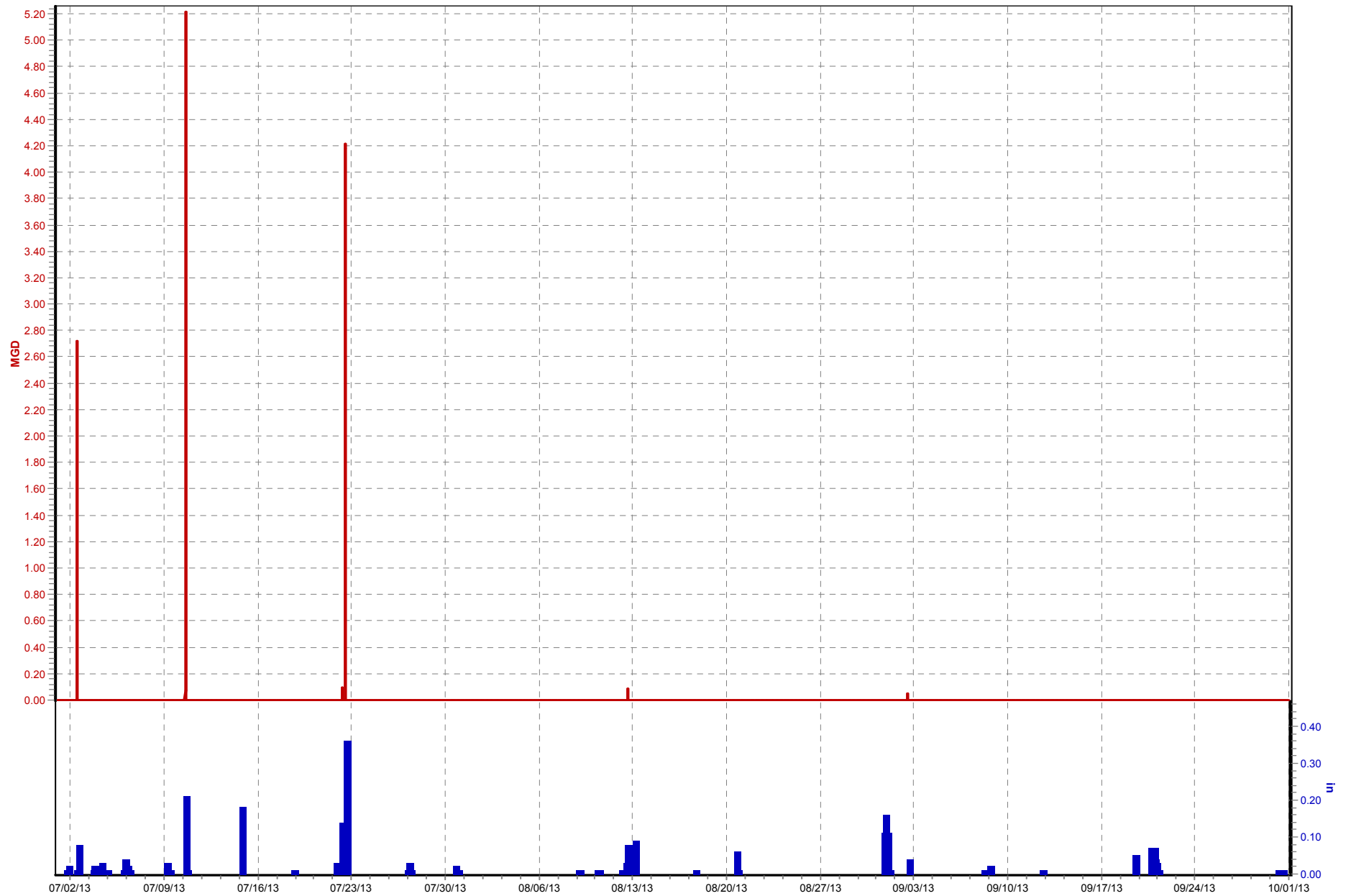
CSO027 7th and Broadway (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



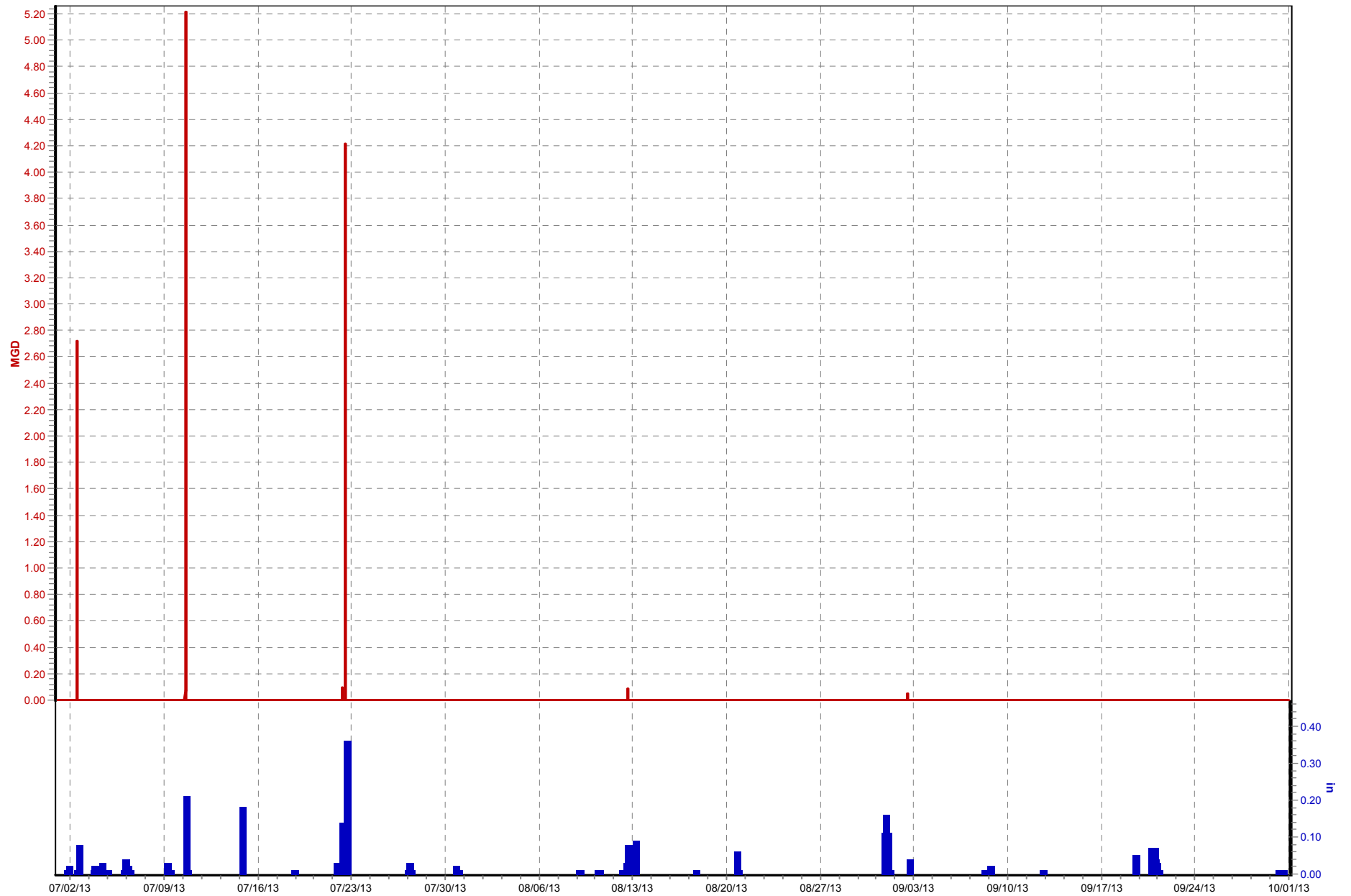
CSO028 6th and York St (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



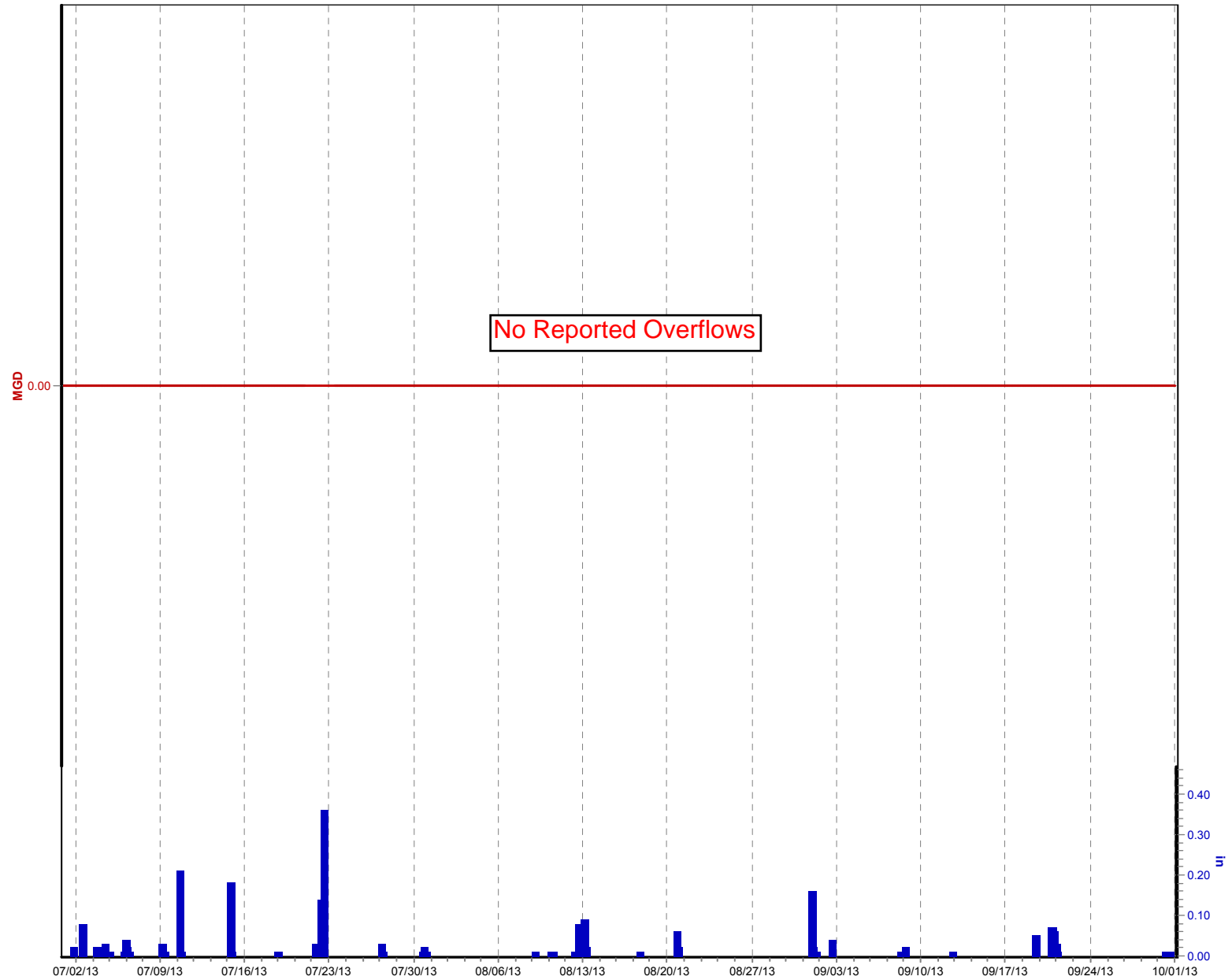
CSO028_6th and York St (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



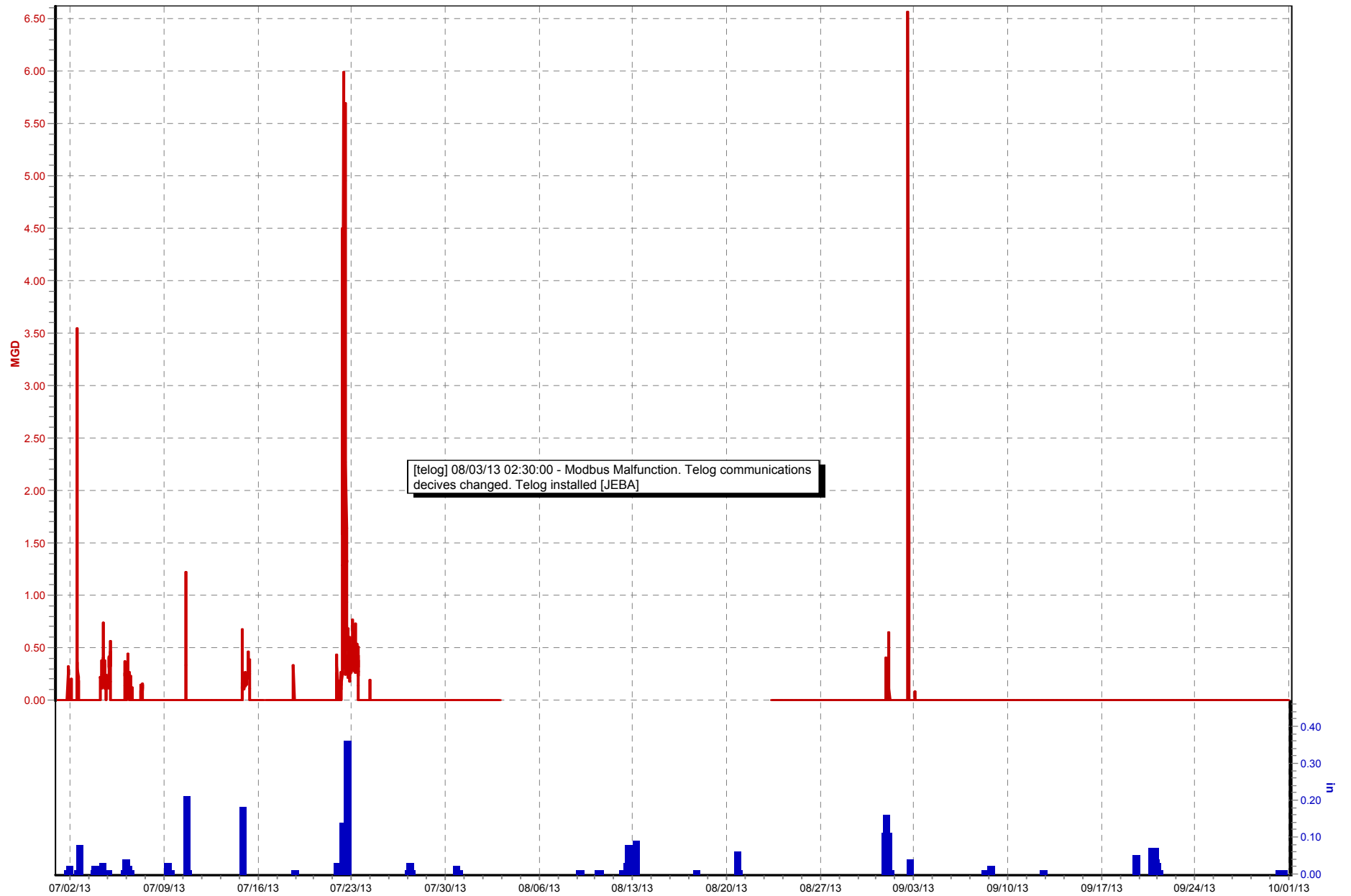
CSO029 LGE Lot 9th St (07/01/13 to 10/01/13)

☒ Adjusted Flow (MGD) ☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



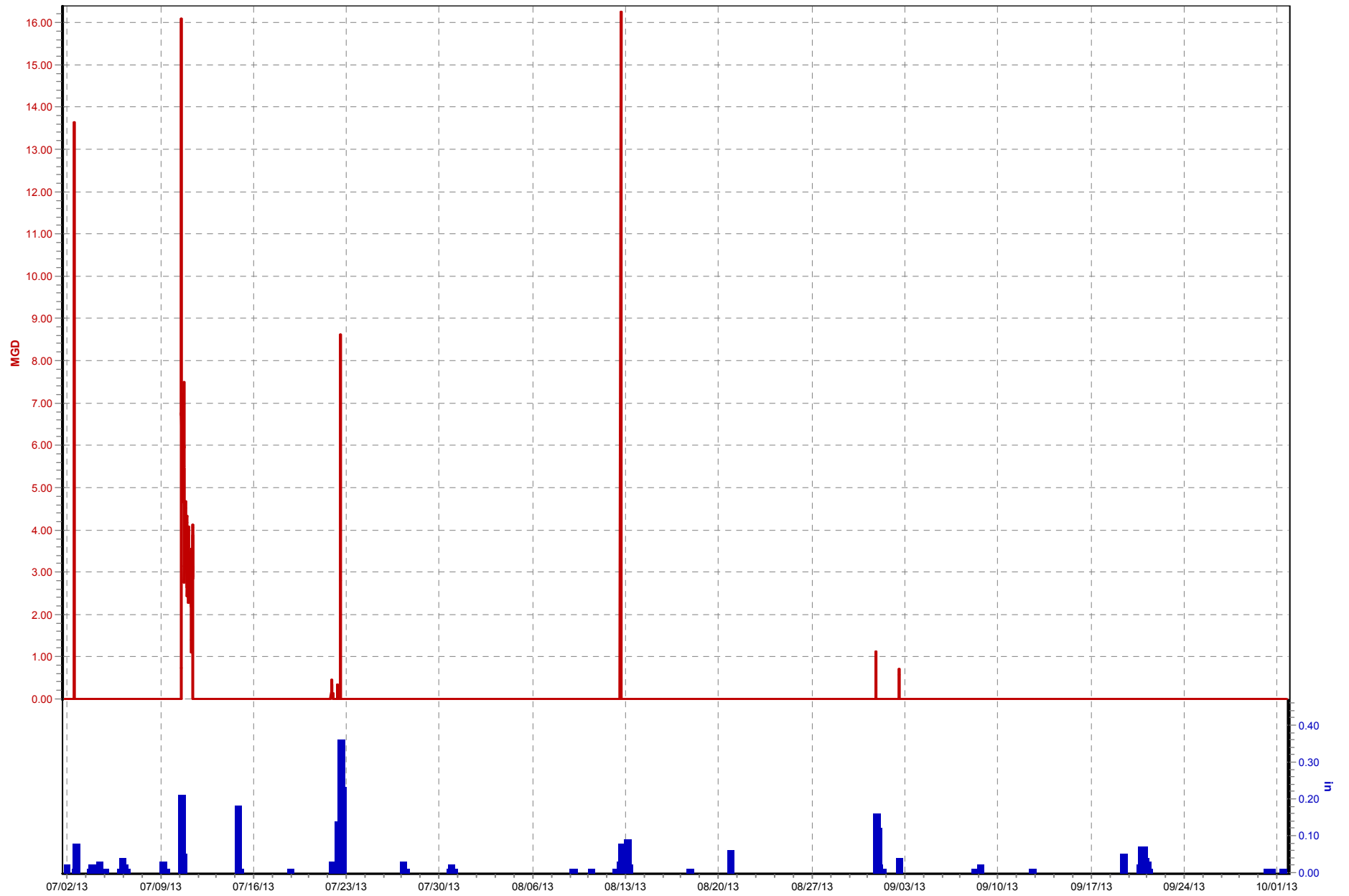
CSO031_6th and Breckenridge (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ Historic Flow ☒ TR05_Beargrass PS.Rain (in)



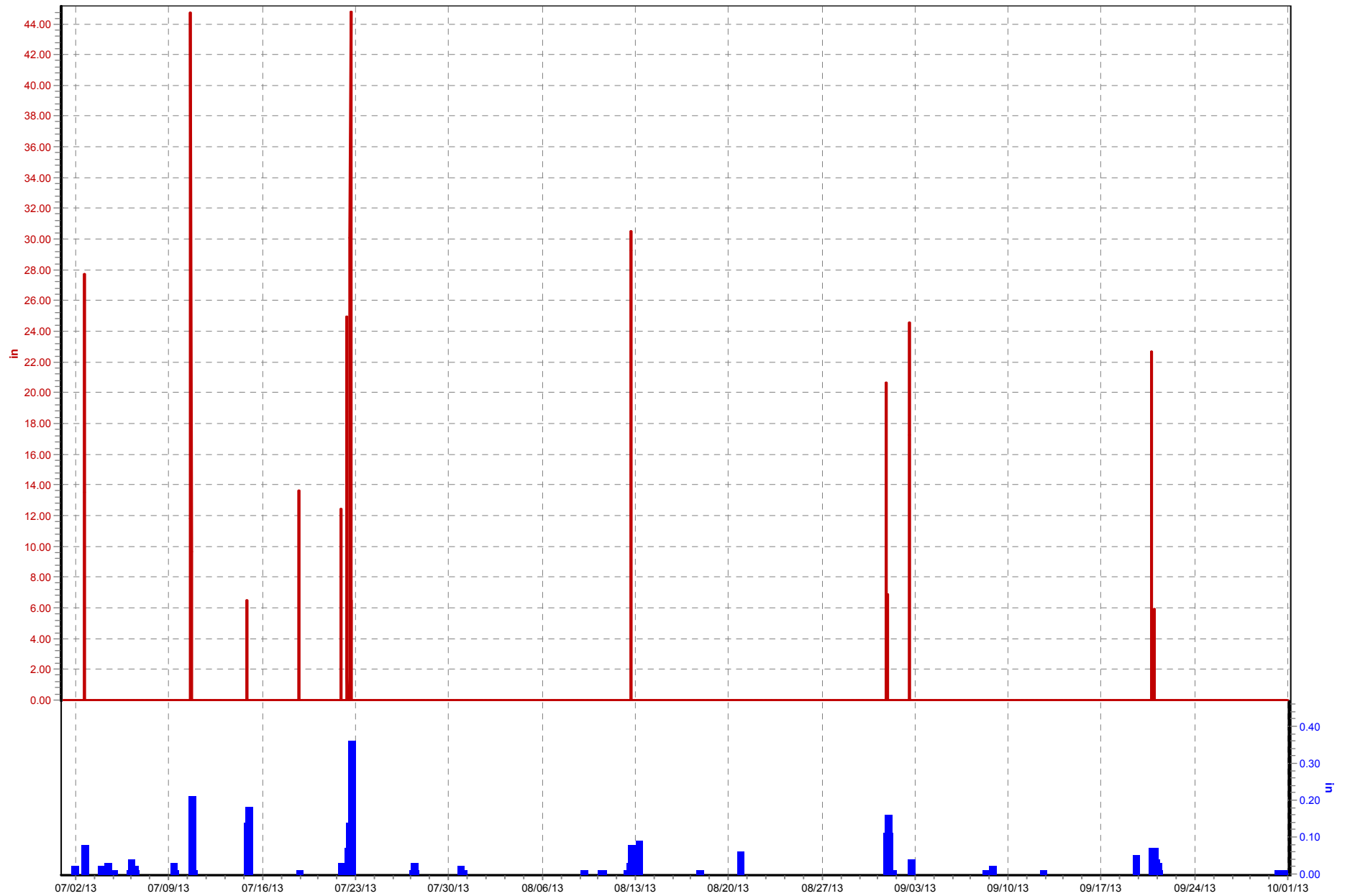
CSO034 4th and York (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



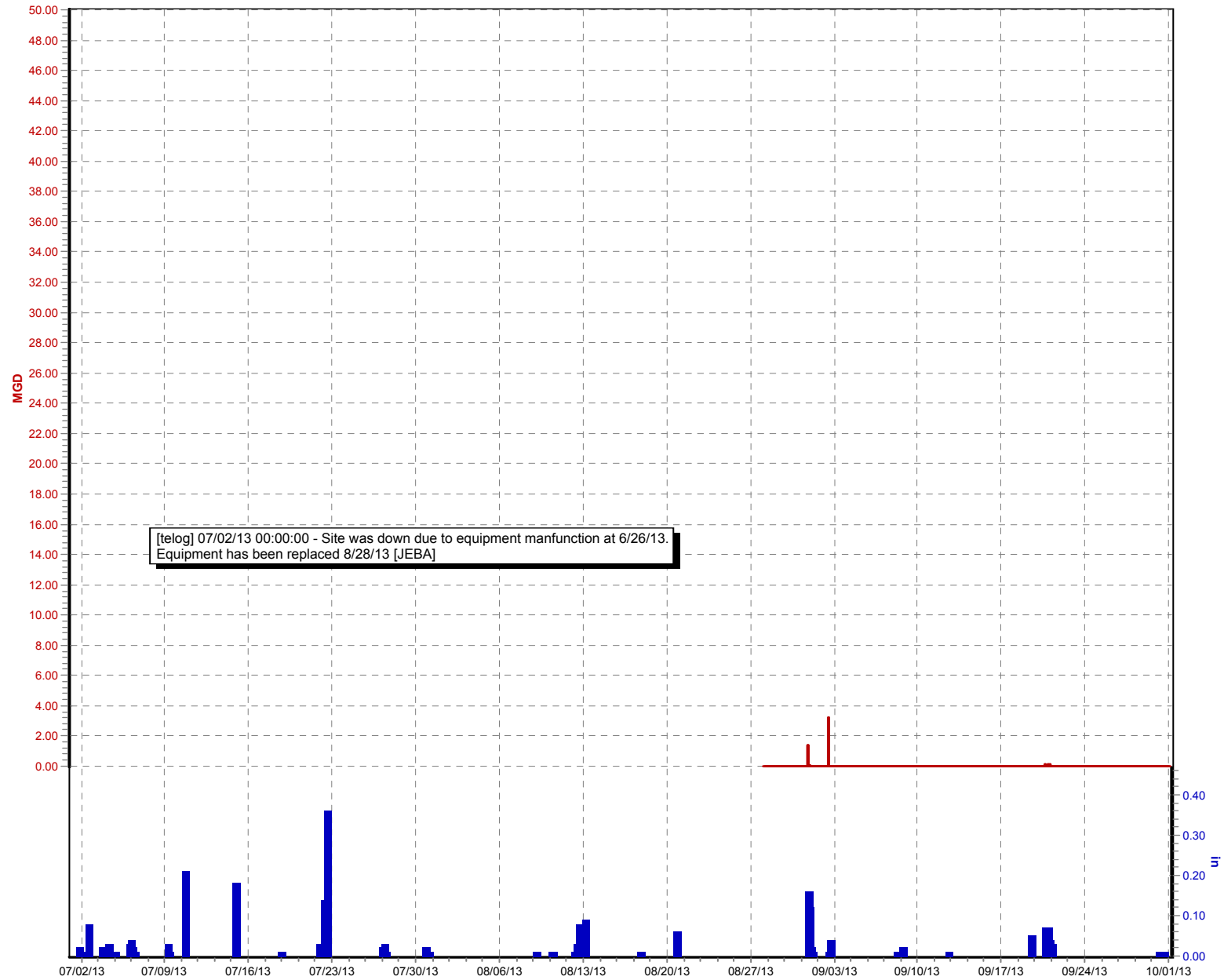
CSO035_Upstream_of_Dam (07/01/13 to 10/01/13)

☒ CSO 035 Overflow Level (in) ☒ TR05_Beargrass PS.Rain (in)



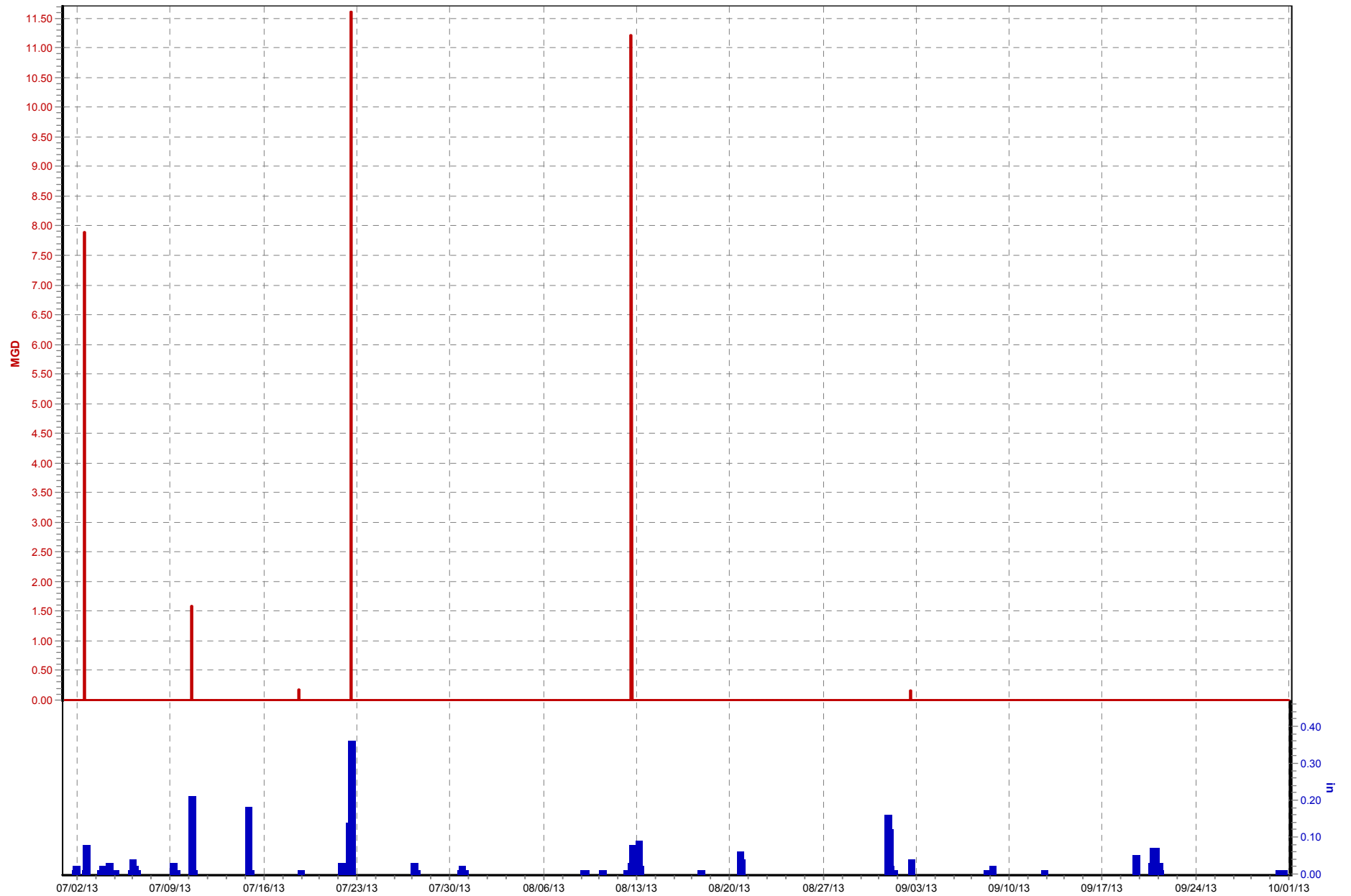
CSO036 3rd and Broadway (07/01/13 to 10/01/13)

☒ Final Flow (MGD)
 ☒ TR05_Beargrass PS.Rain (in)



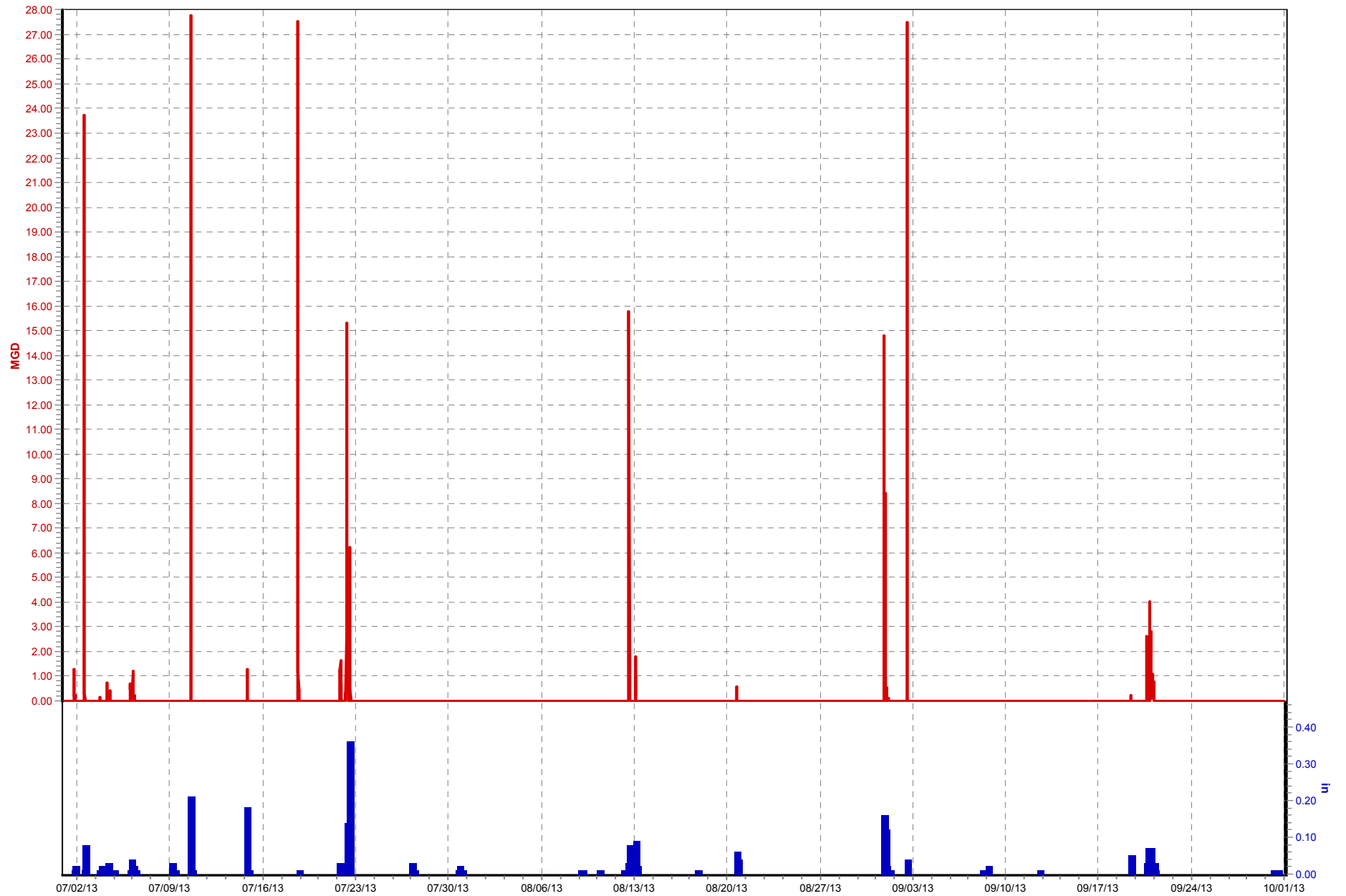
CSO038 5th and Broadway (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



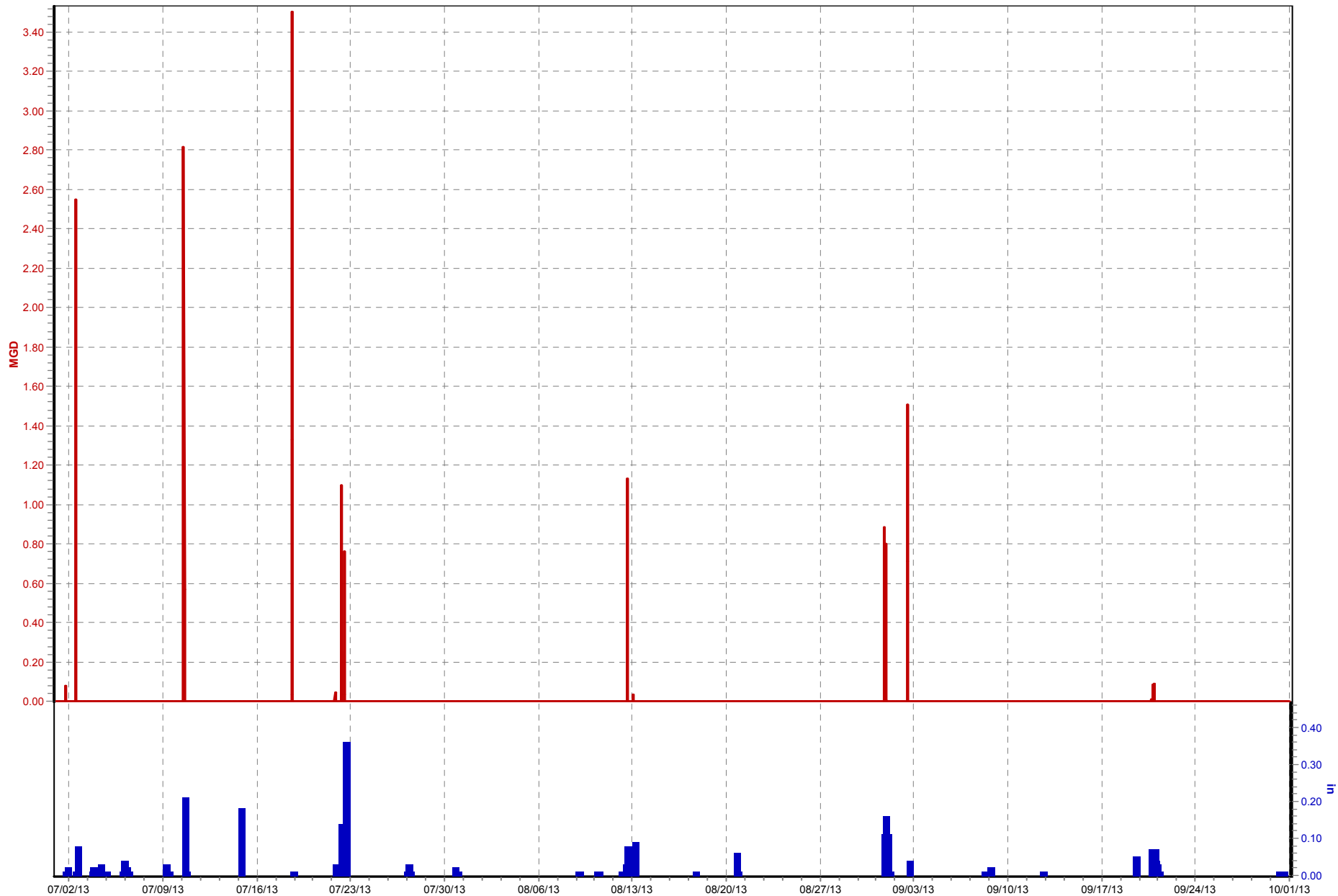
CSO050 12th and Rowan (07/01/13 to 10/01/13)

☒ Adjusted Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



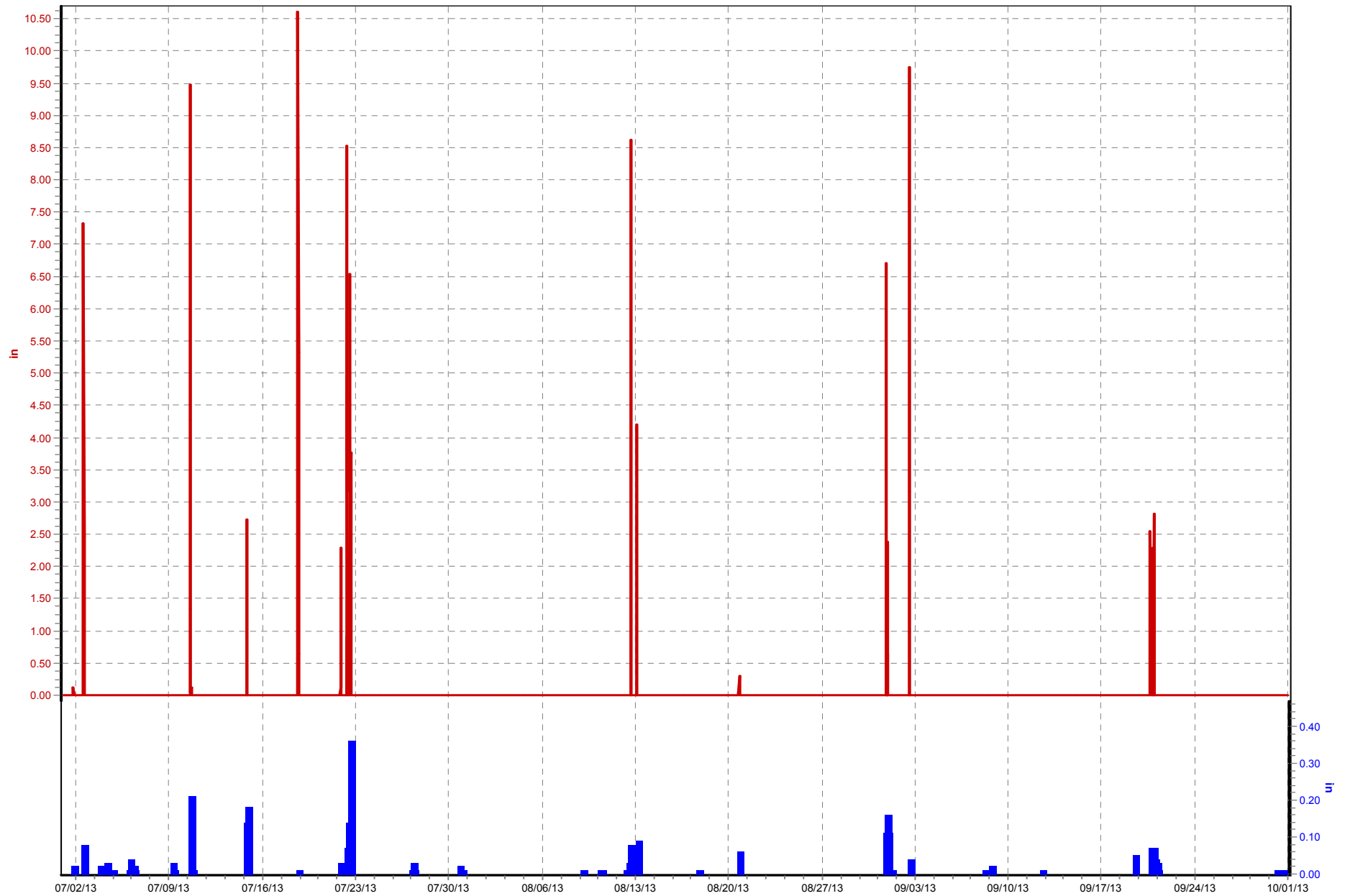
CSO051 11th St and Main St (07/01/13 to 10/01/13)

☒ M1 Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



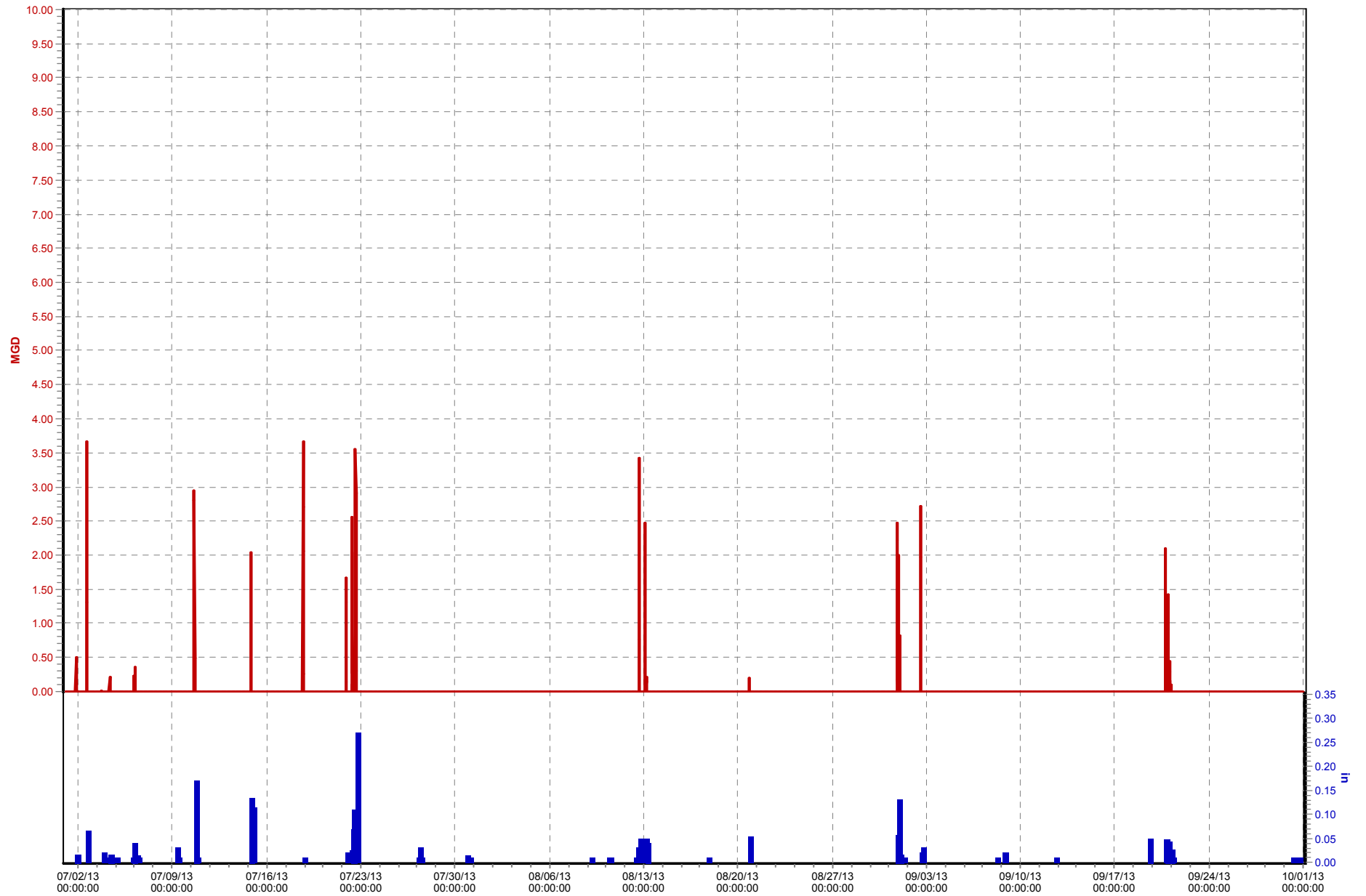
CSO052 10th St (07/01/13 to 10/01/13)

☒ Overflow Level (in) ☒ TR05_Beargrass PS.Rain (in)



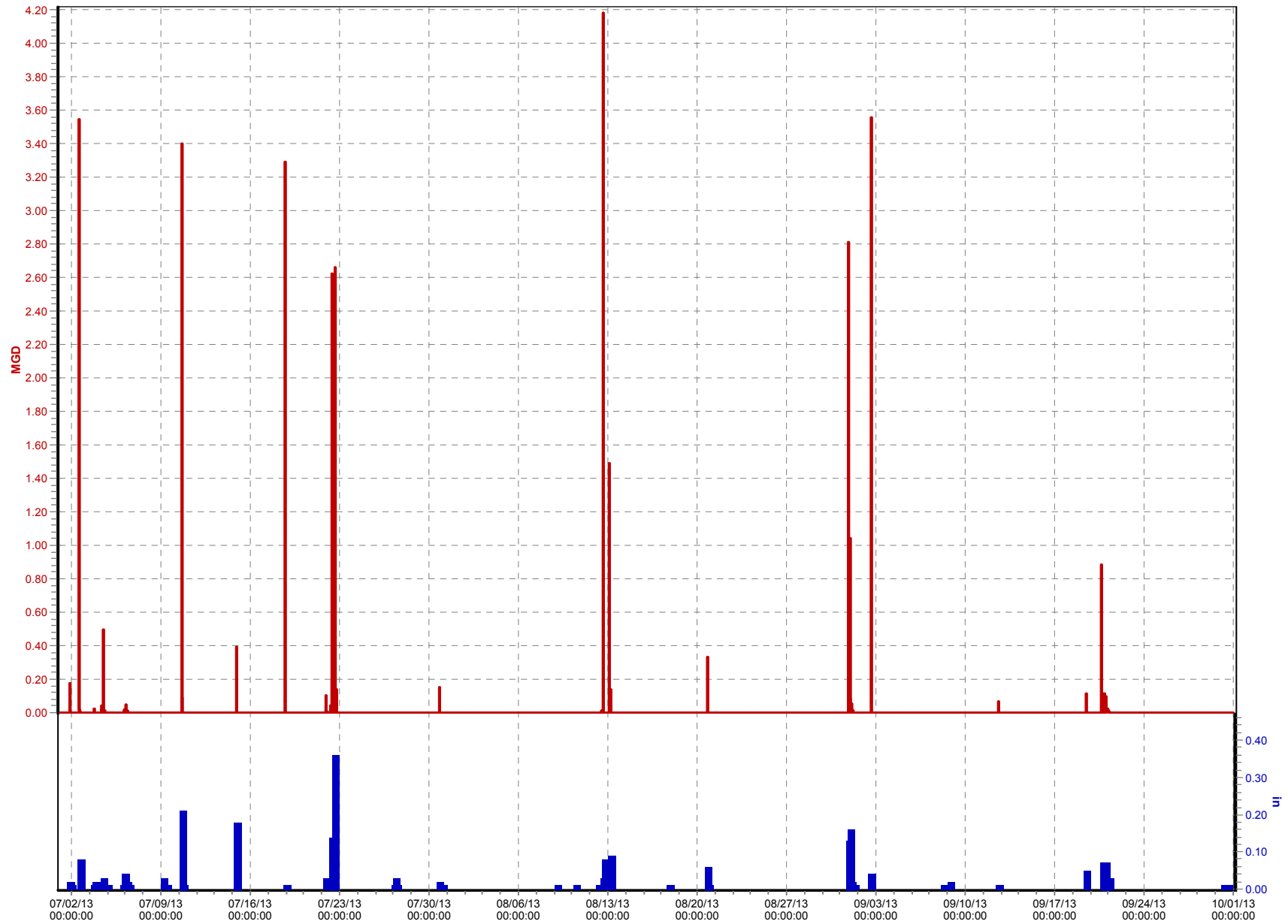
CSO053 7th and Main St (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



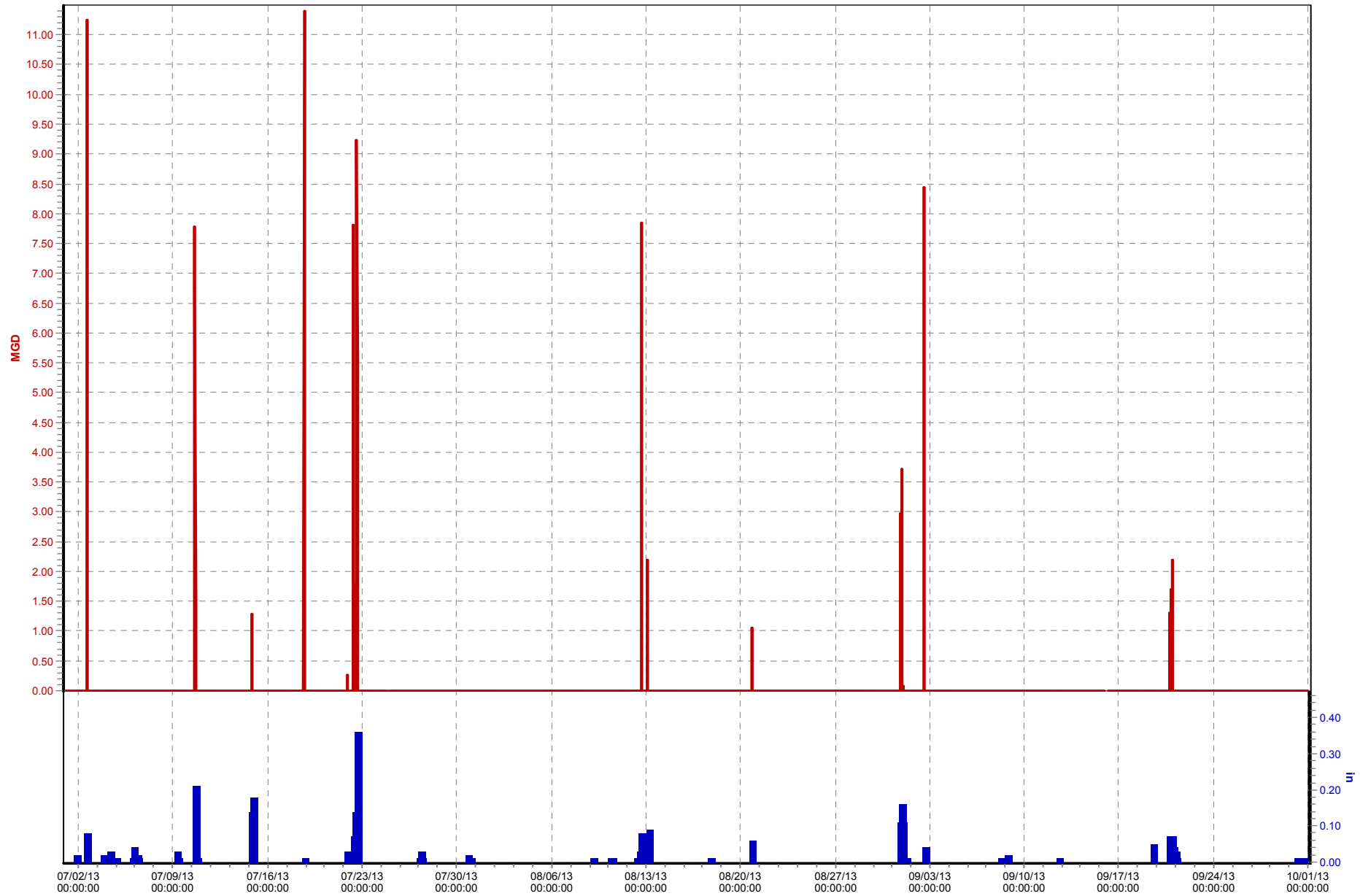
CSO054 7th St (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



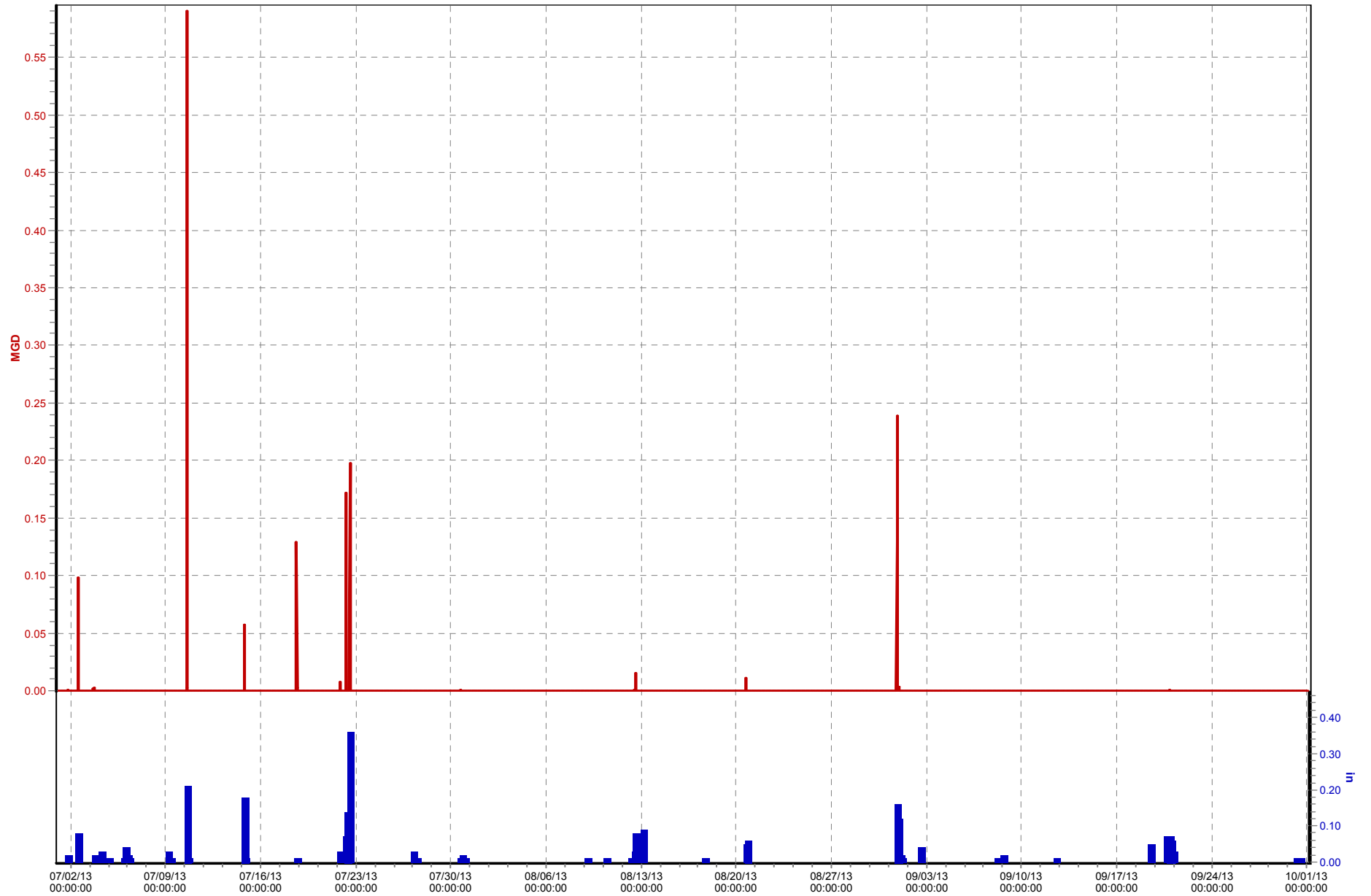
CSO055 6th St (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



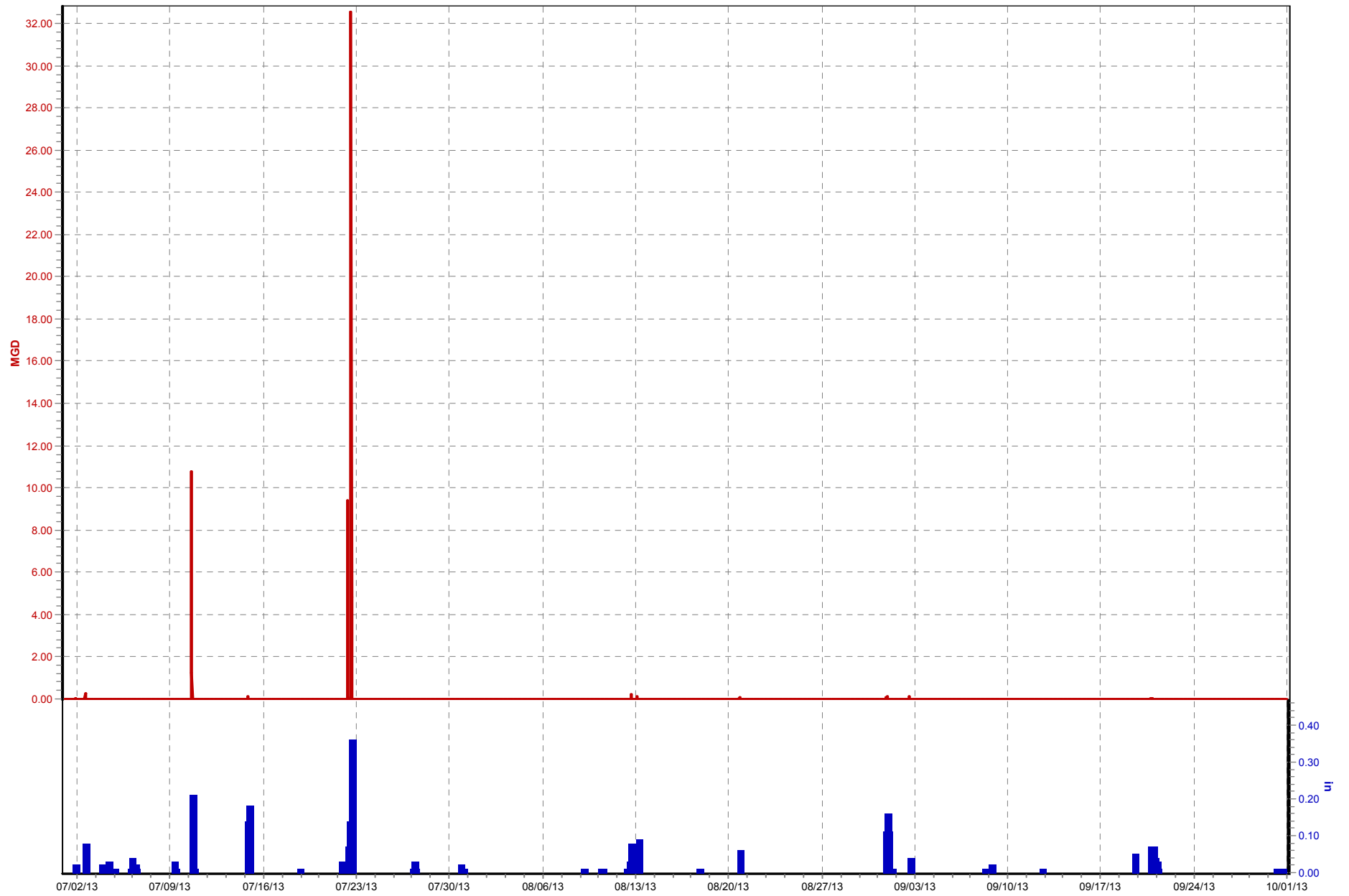
CSO057 1st and Main (07/01/13 to 10/01/13)

☒ M1 Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



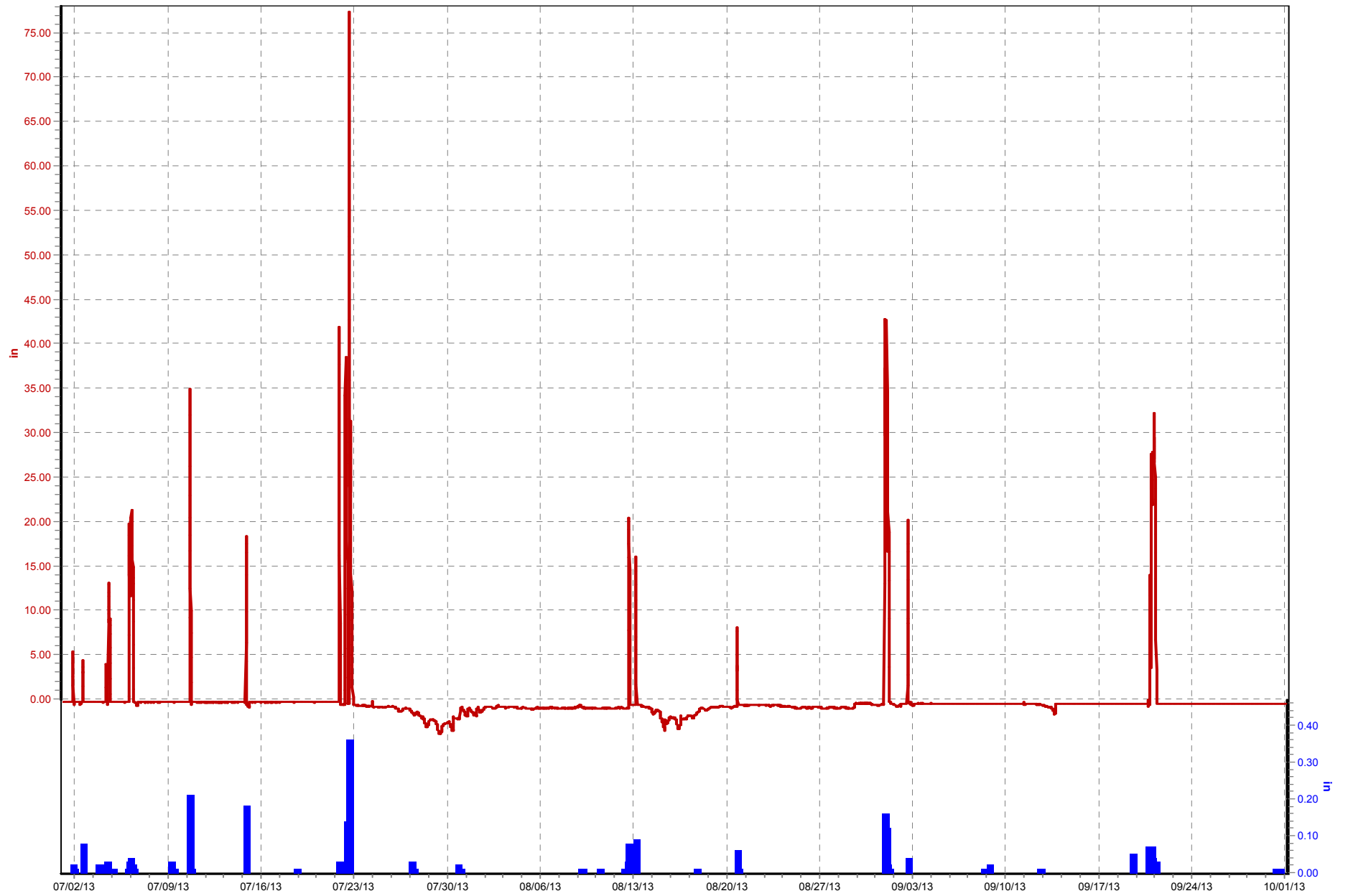
CSO058 at Preston and Main (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



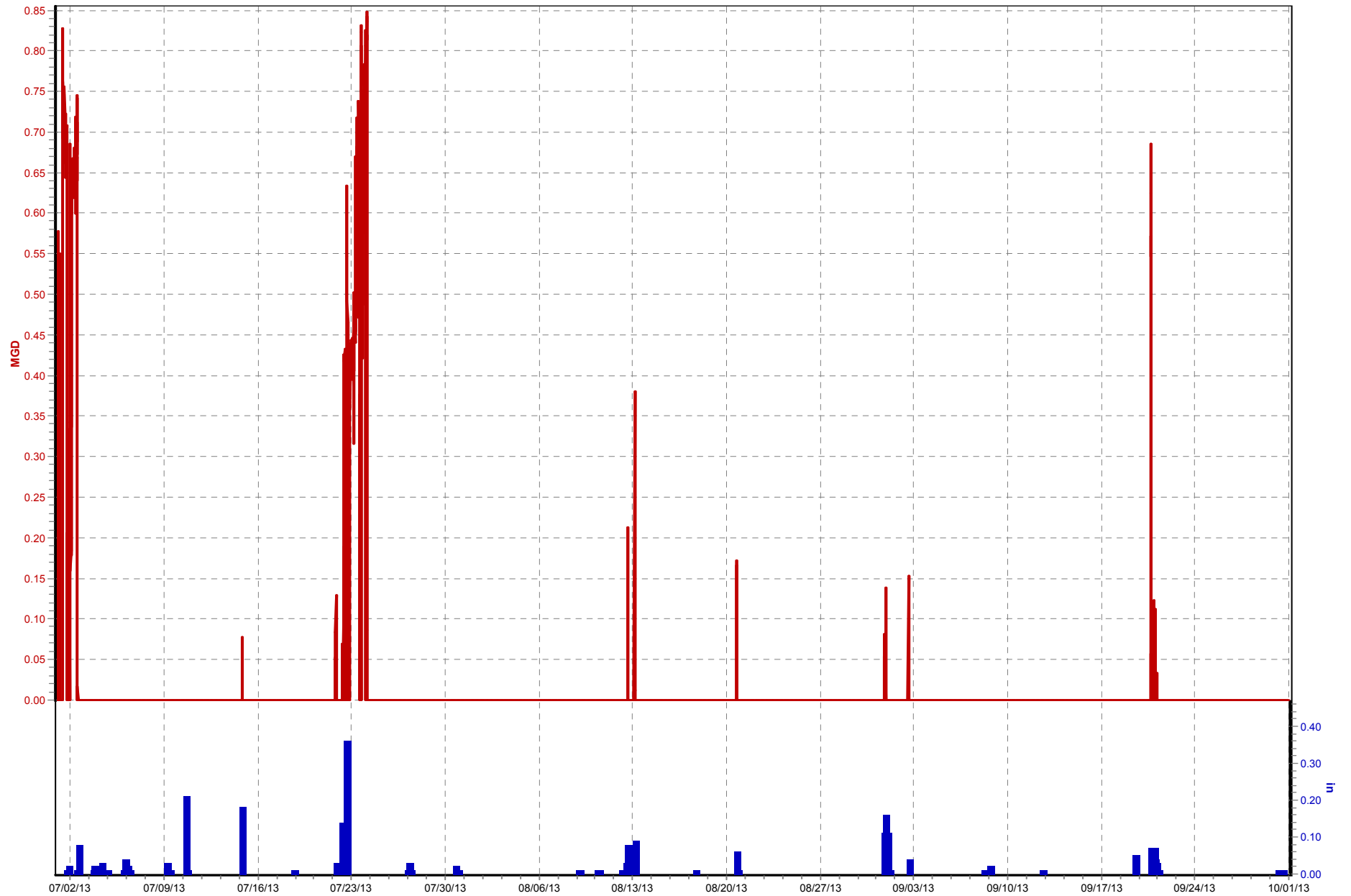
CSO082 Lex Rd (07/01/13 to 10/01/13)

☒ Level (in) ☒ TR05_Beargrass PS.Rain (in)



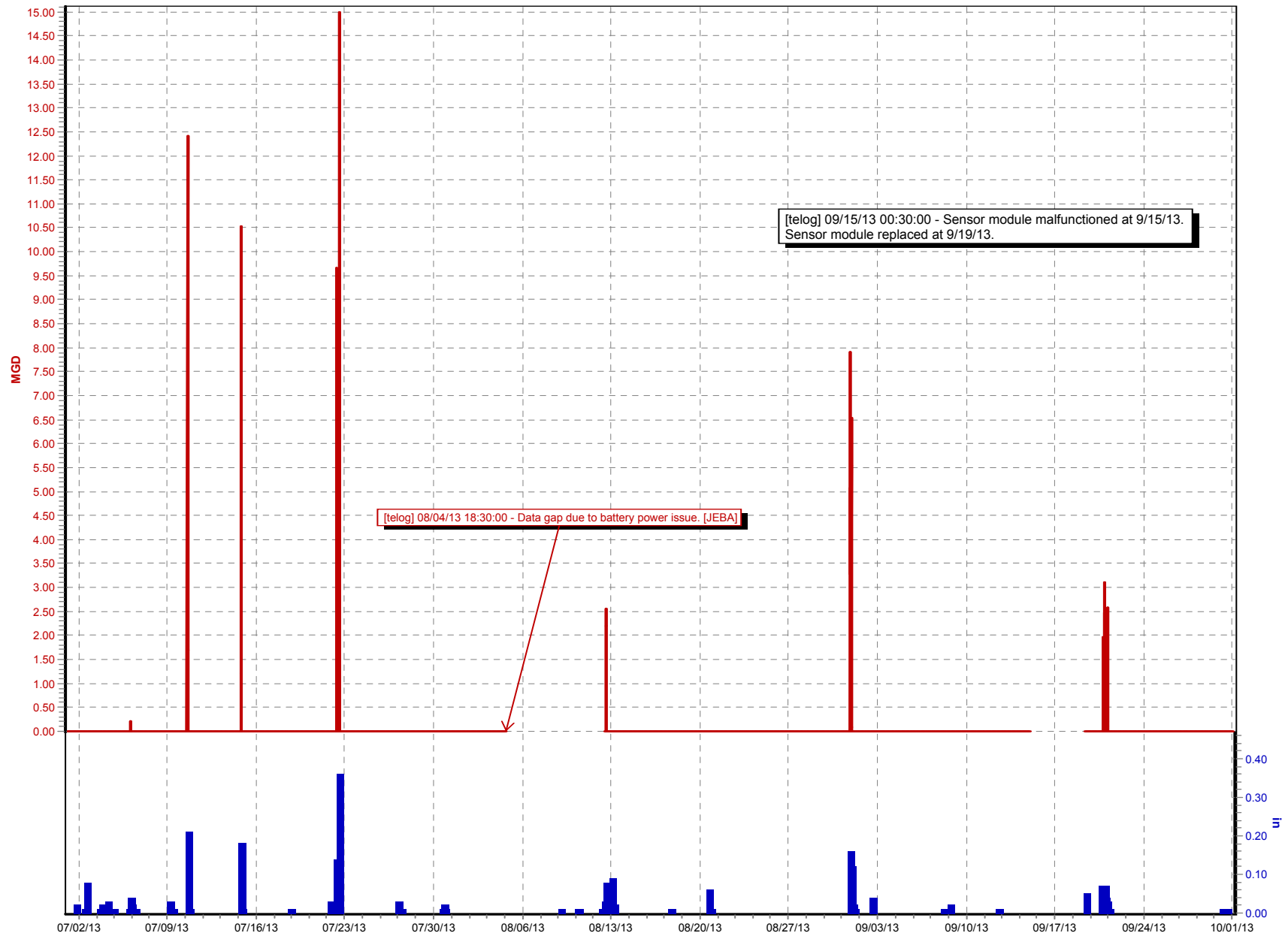
CSO084 Brent St and BGC (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



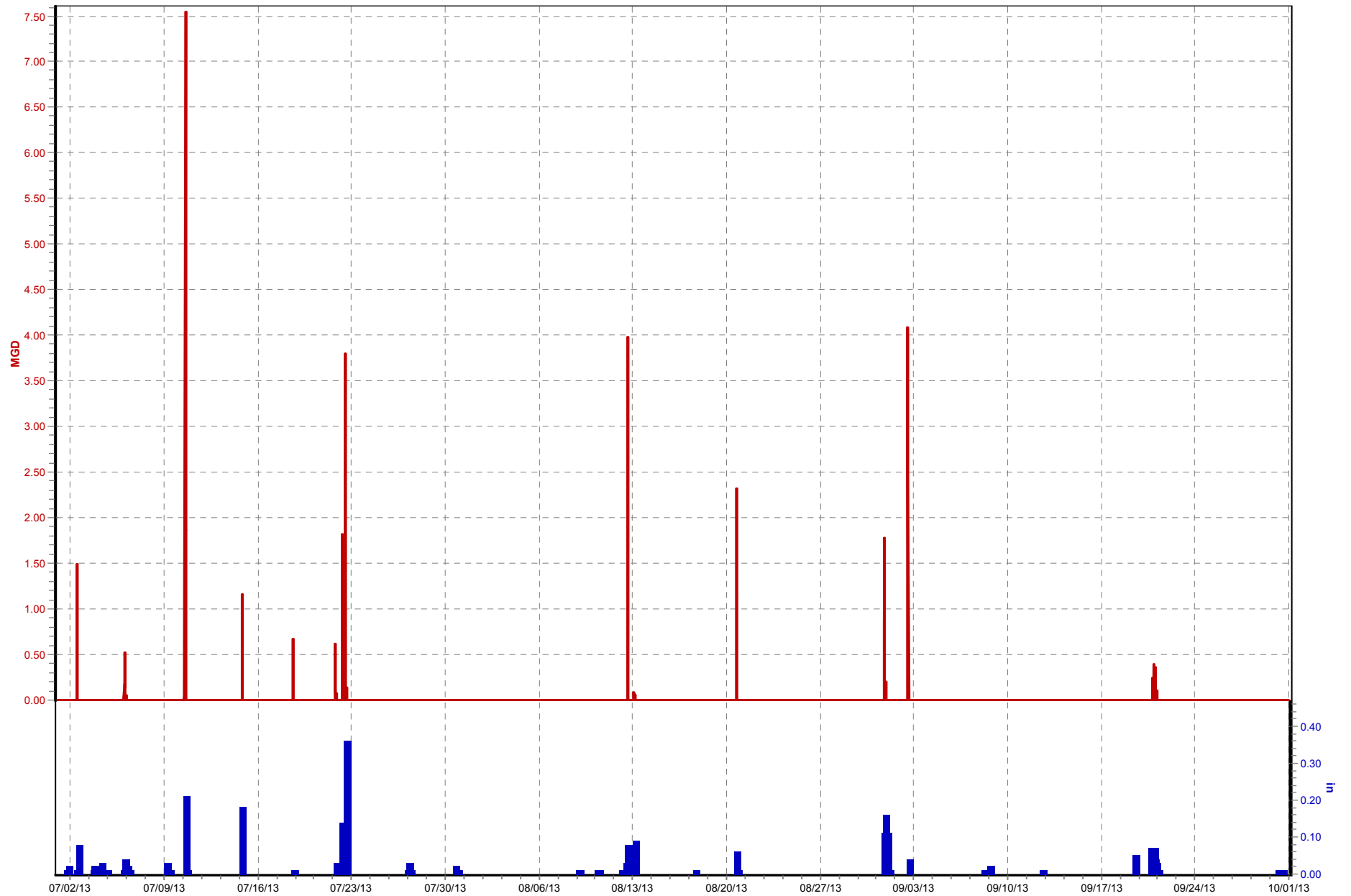
CSO088 Brownsboro Rd-BGC (07/01/13 to 10/01/13)

☒ Adjusted Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



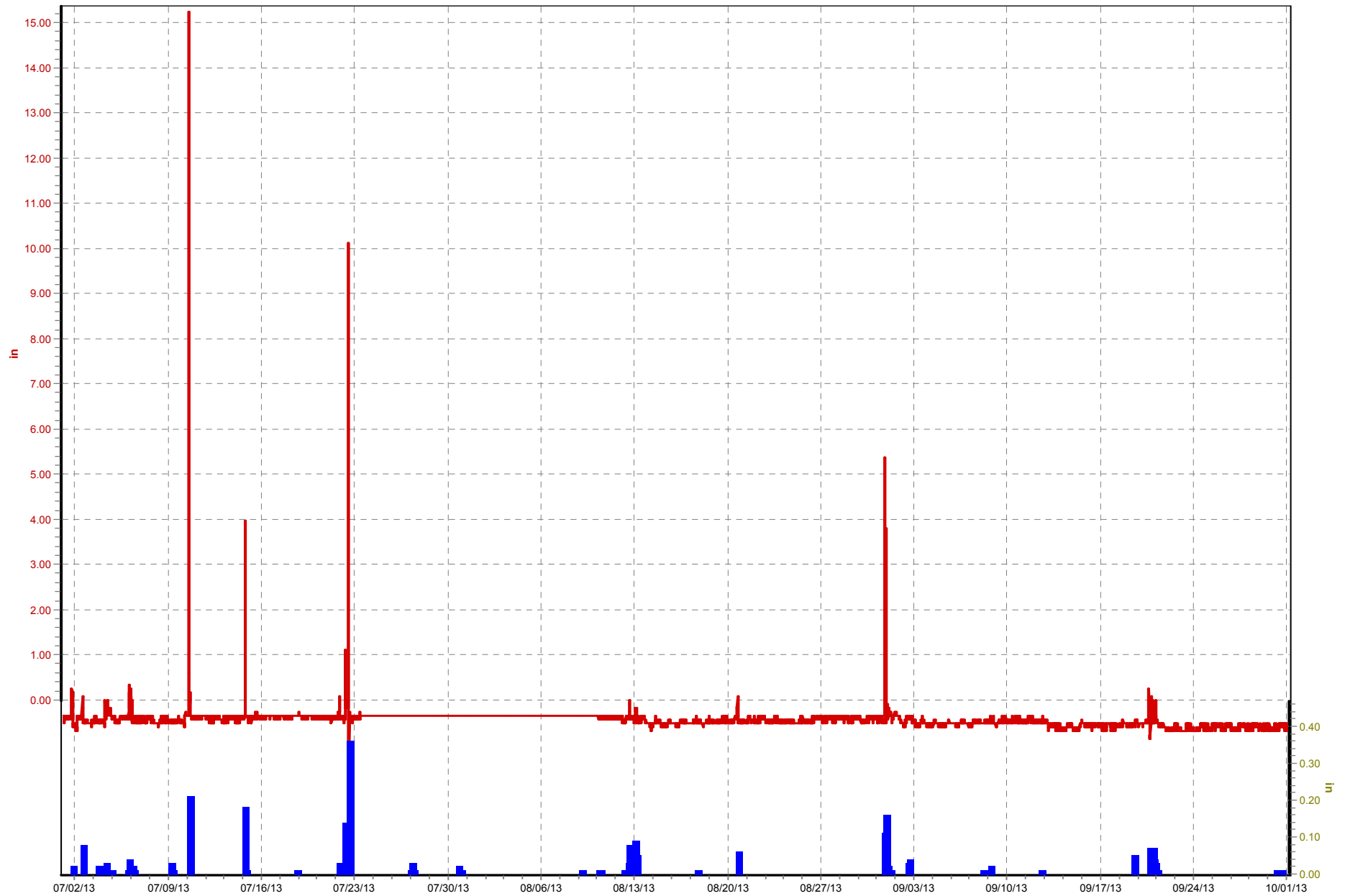
CSO091 Schiller Ave (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



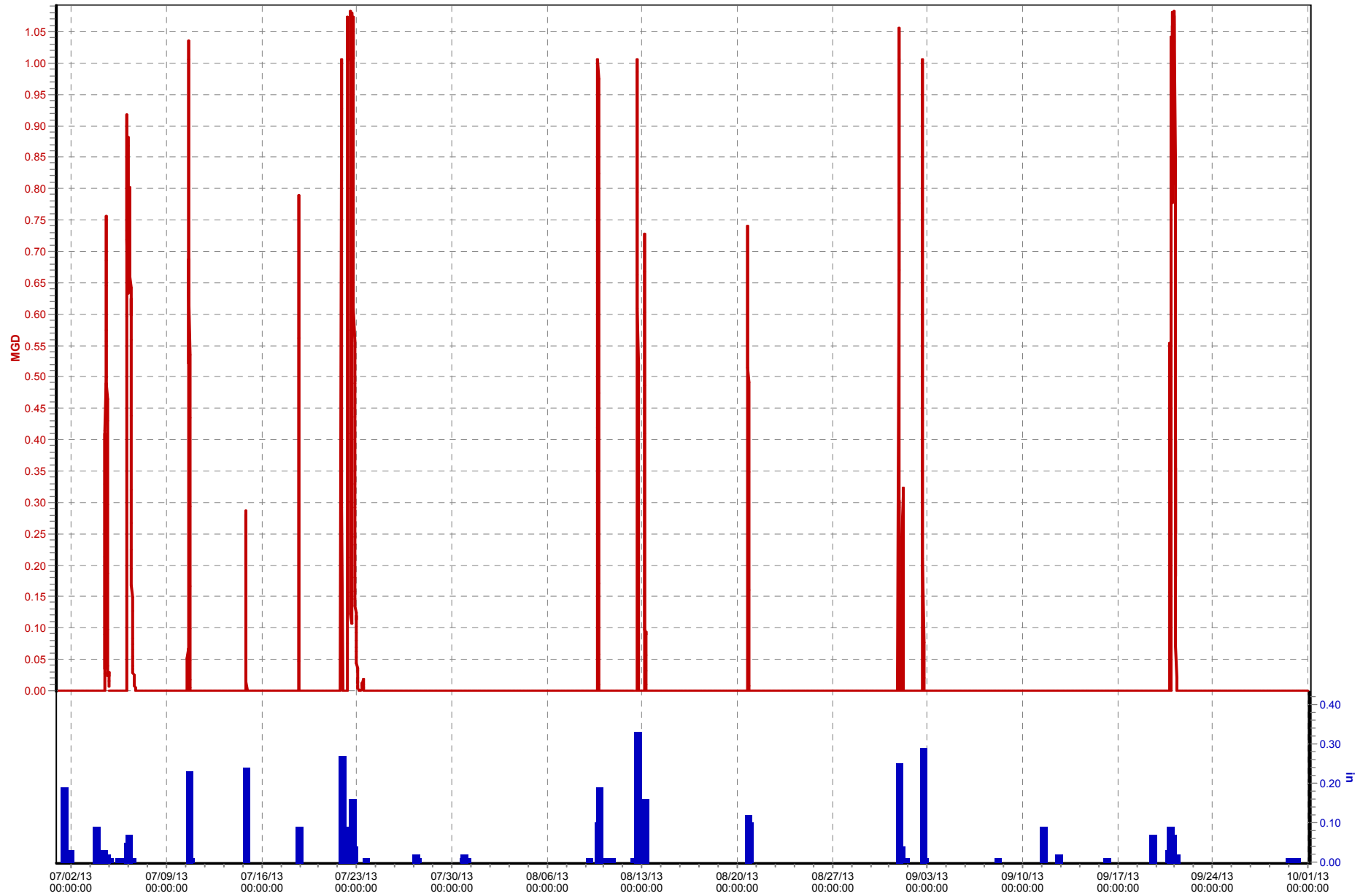
CSO093_Upstream_of_Weir Plate (07/01/13 to 10/01/13)

☐ CSO level (in)
 ☒ Final Level (in)
 ☒ TR05_Beargrass PS.Rain (in)



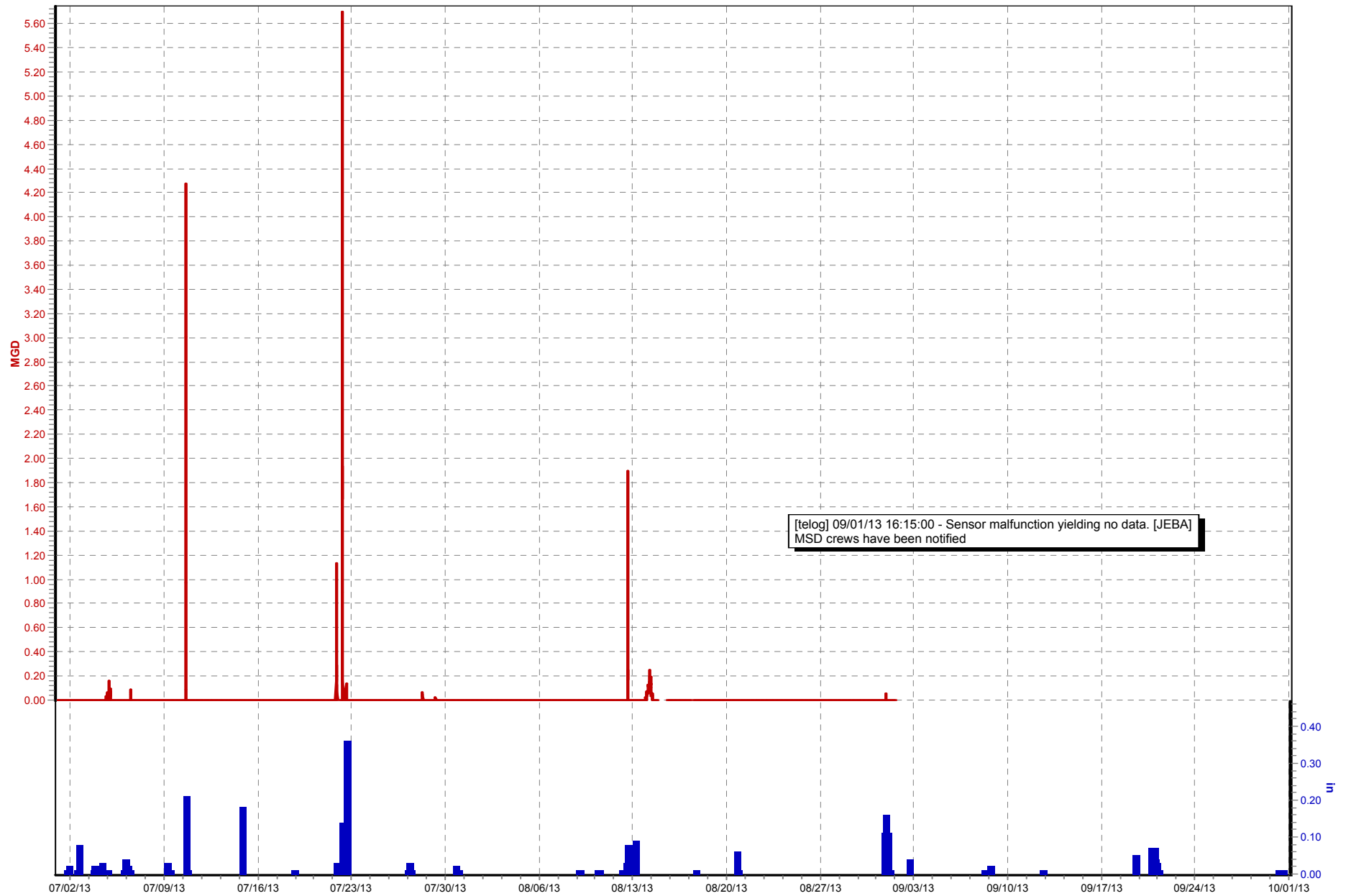
CSO097 Castlevale Dr (07/01/13 to 10/01/13)

☒ C097_FLOW_MGD (MGD) ☒ TR12_Nightingale PS.Rain (in)



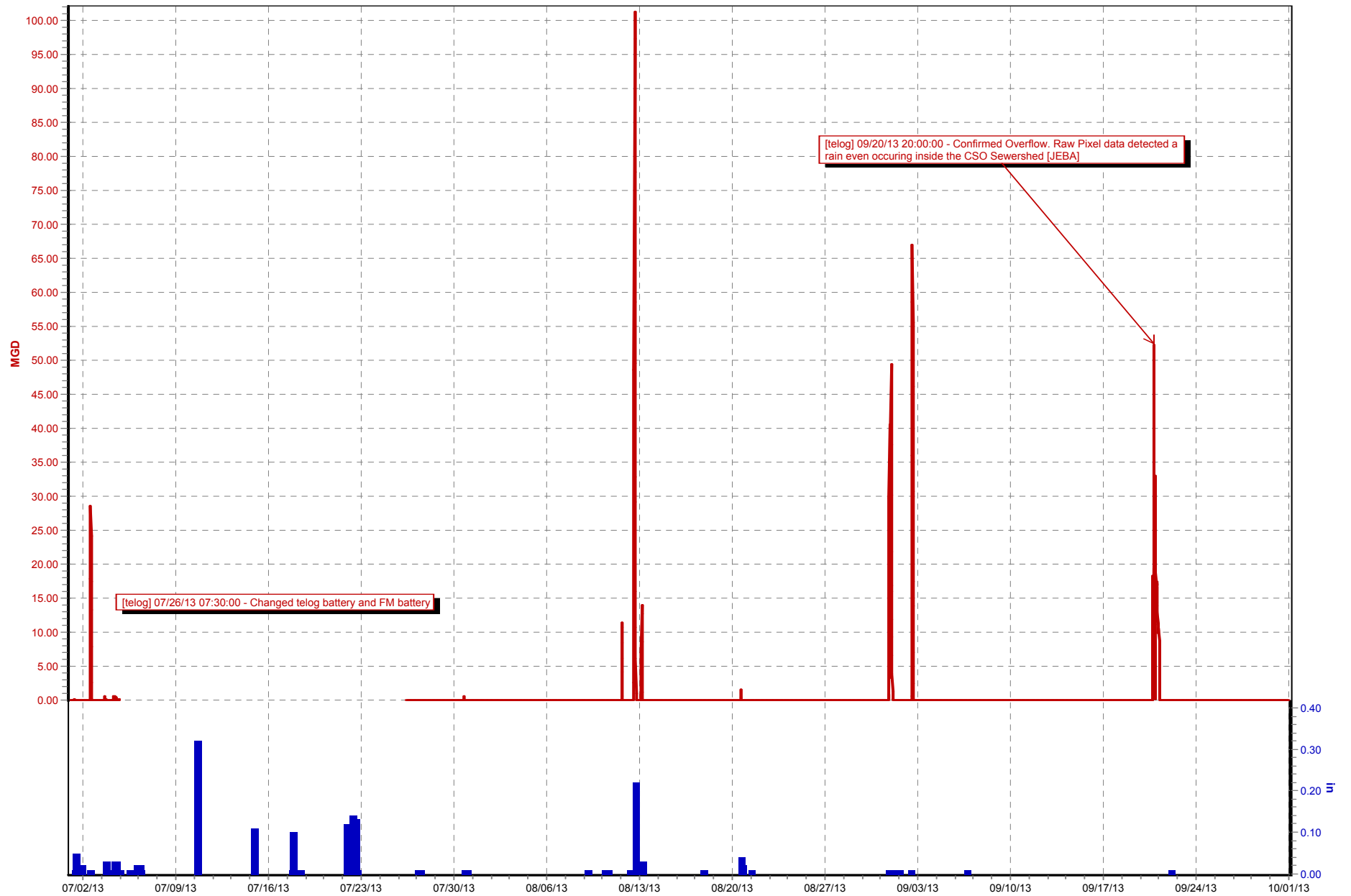
CSO104 SWest Pkwy and Broadway (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



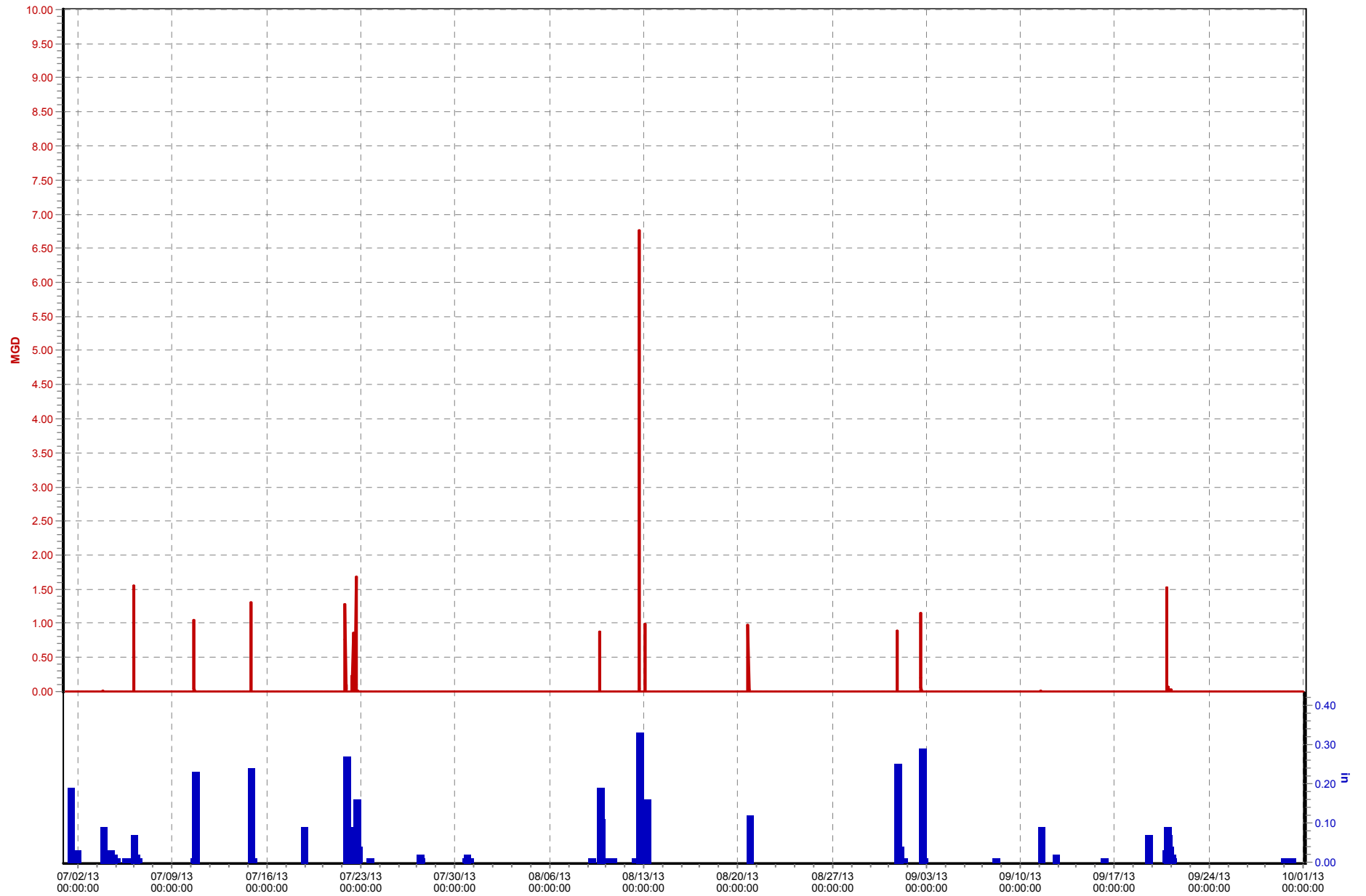
CSO105 Broadway and SWest Pkwy (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR04_Morris Forman WQTC.Rain (in)



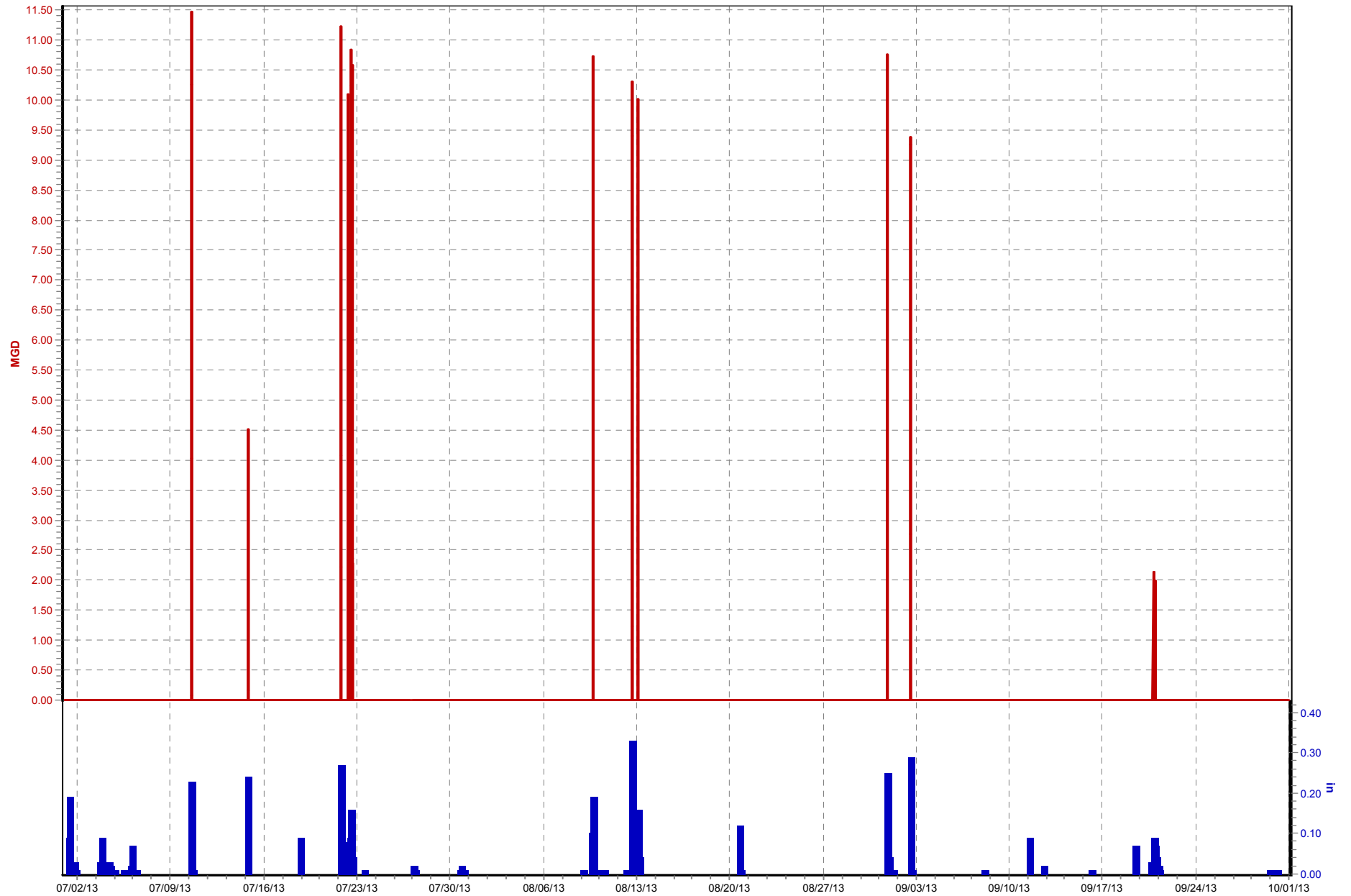
CSO106 Castlevale Dr (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR12_Nightingale PS.Rain (in)



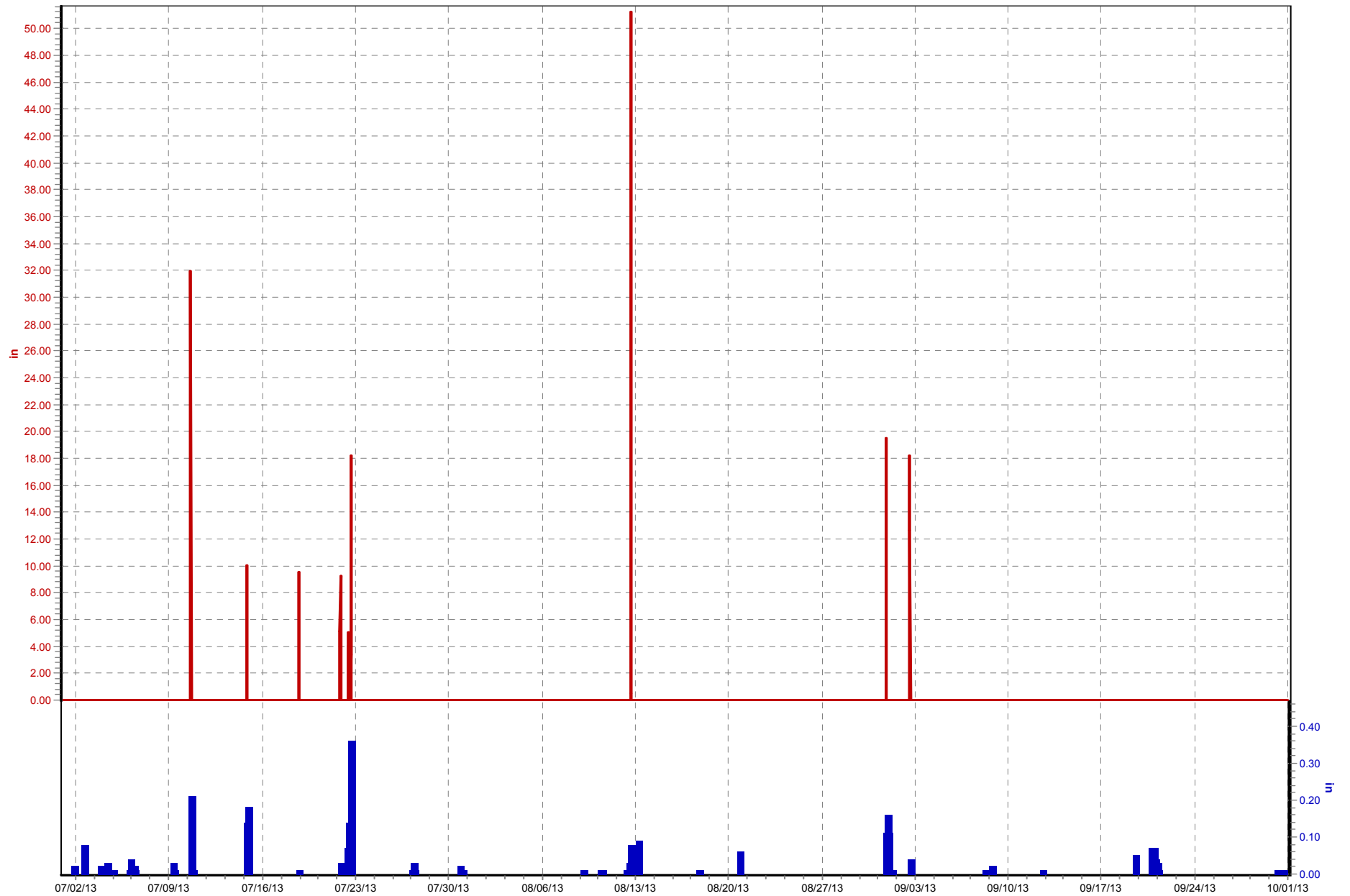
CSO108 CDS Unit (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR12_Nightingale PS.Rain (in)



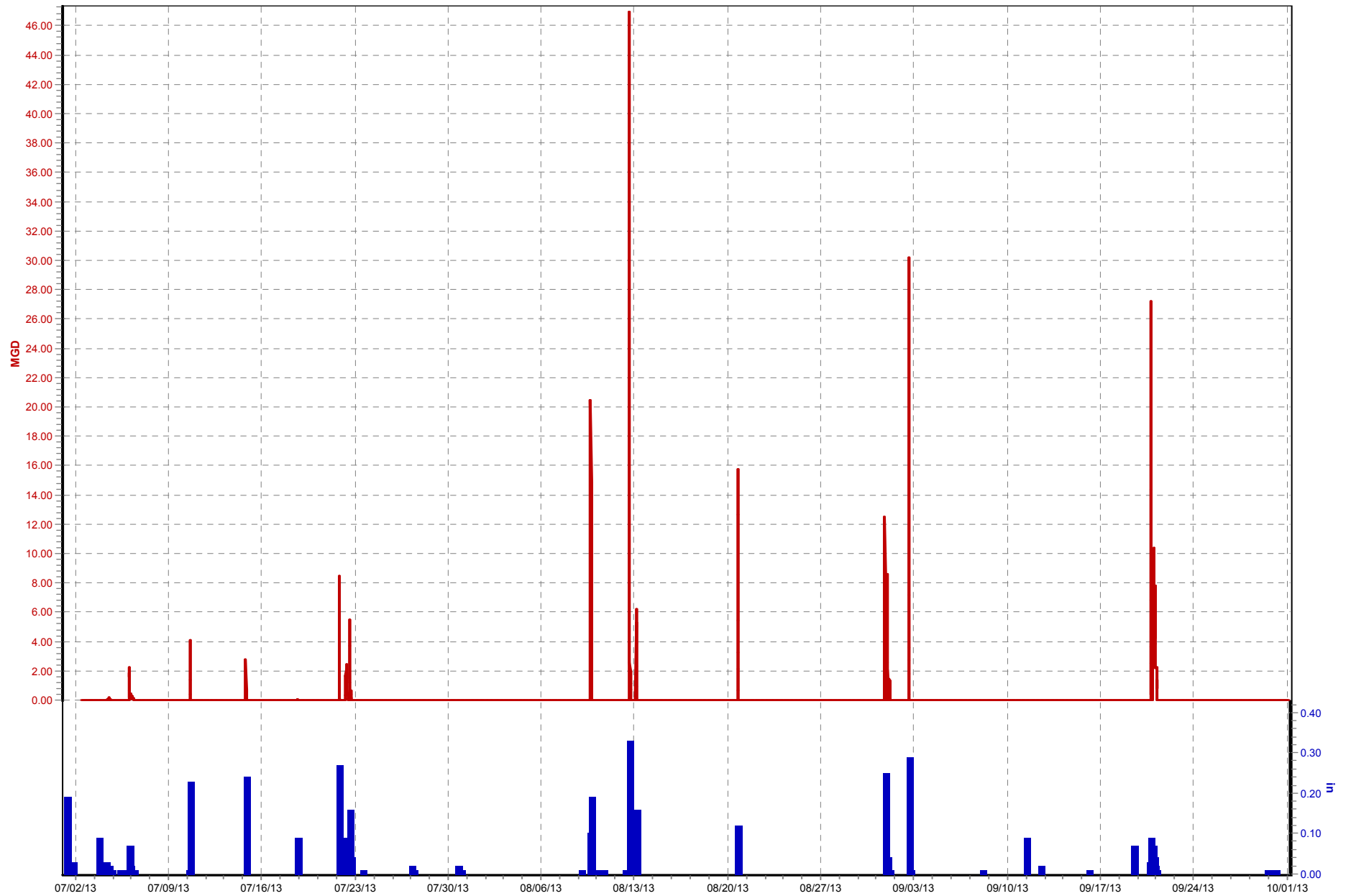
CSO109 Newburg Rd (07/01/13 to 10/01/13)

☒ Potential Overflow (in) ☒ TR05_Beargrass PS.Rain (in)

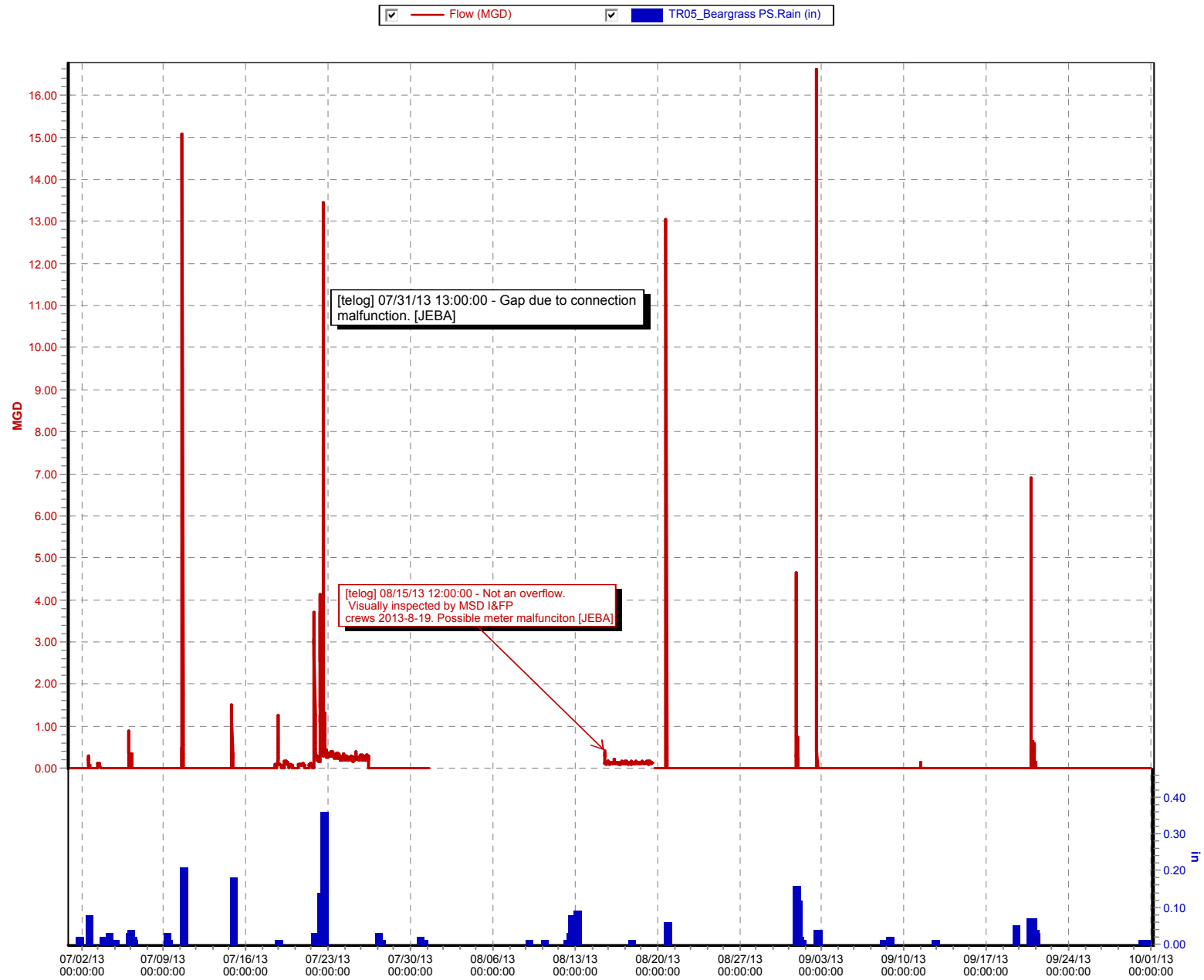


CSO110_CSO and Upstream (07/01/13 to 10/01/13)

☒ CSO Flow MGD (MGD) ☒ TR12_Nightingale PS.Rain (in)

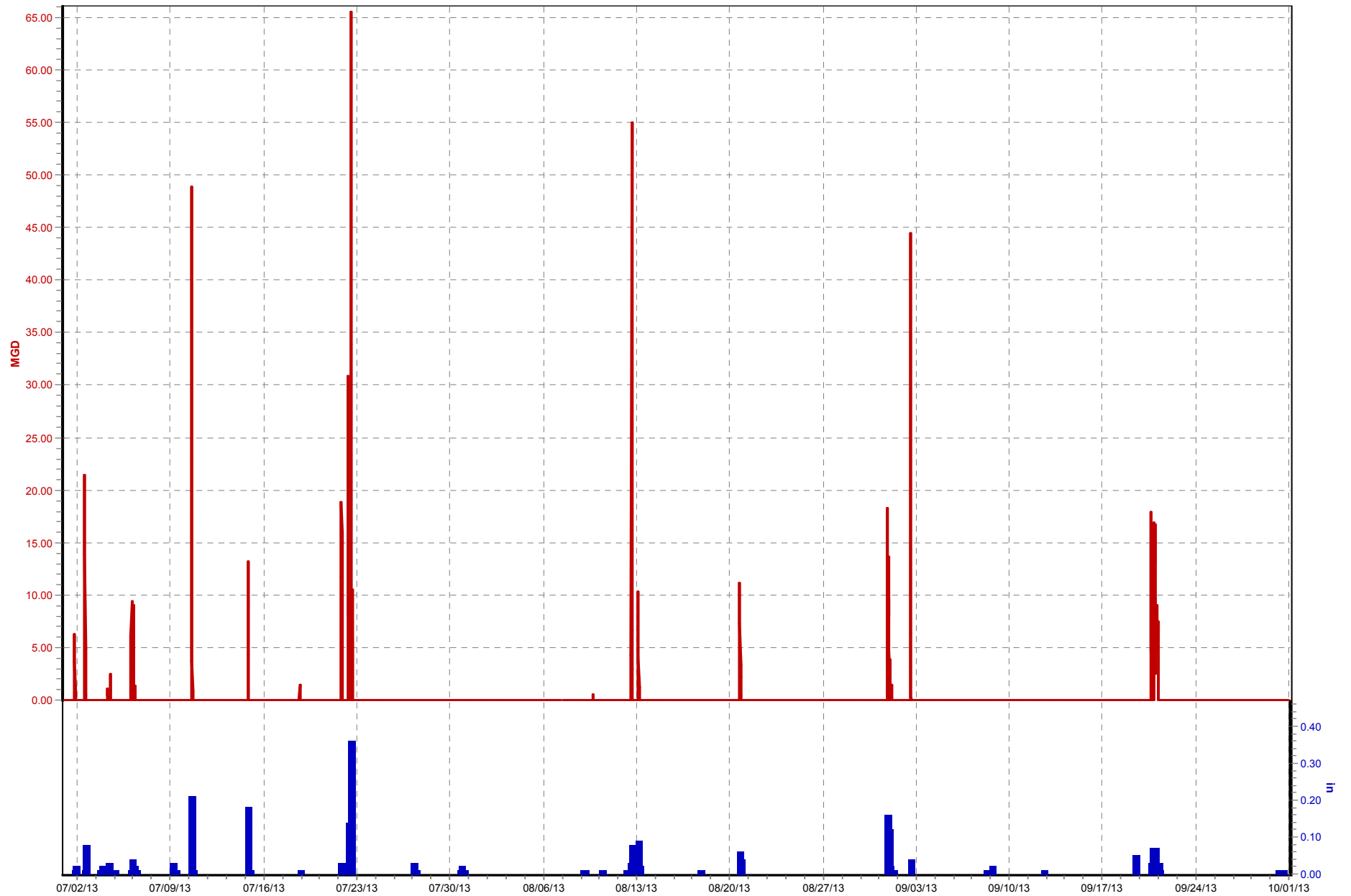


CSO113 (07/01/13 to 10/01/13)



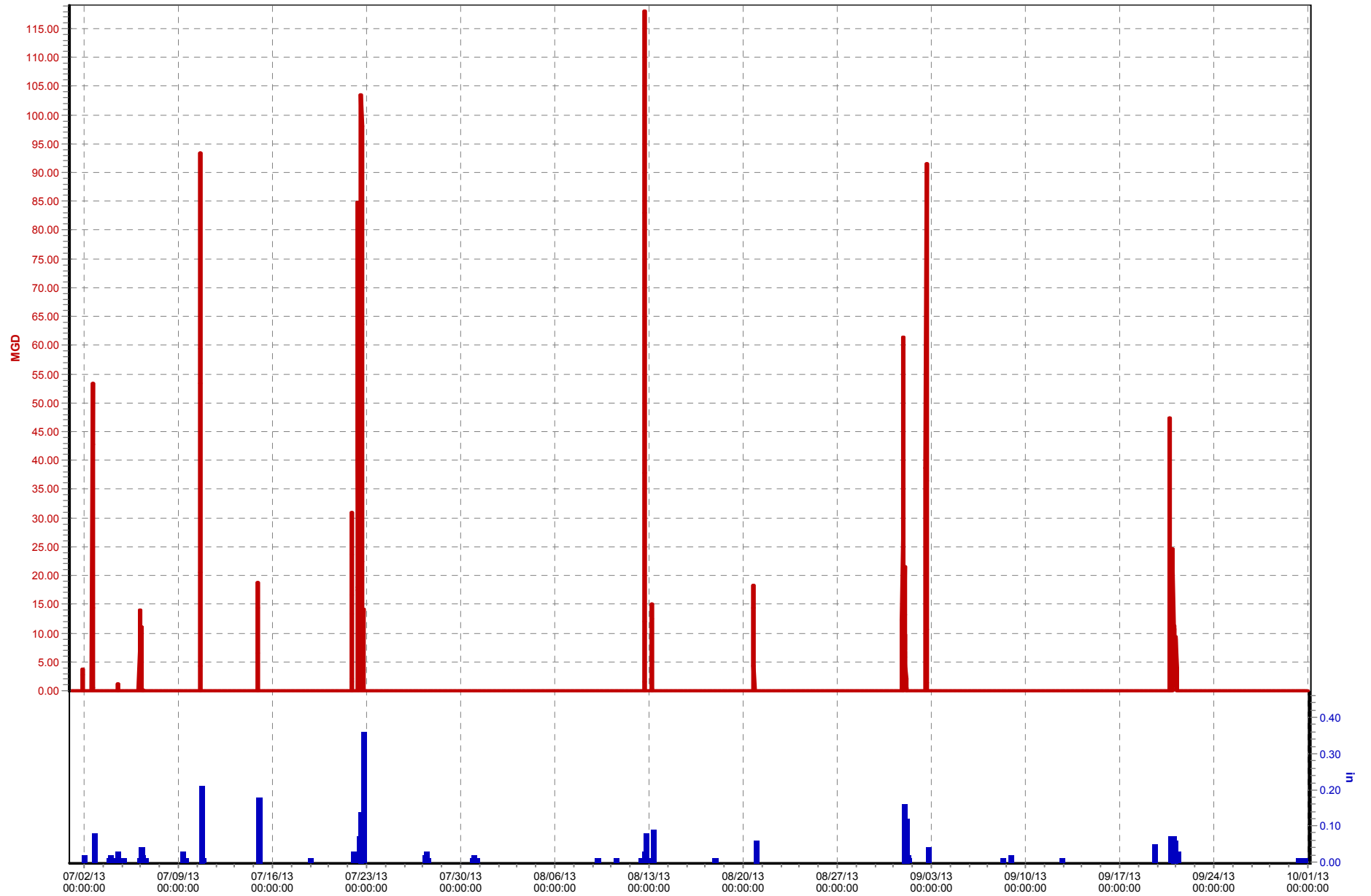
CSO117 Dry Sewer and BGC Logan (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



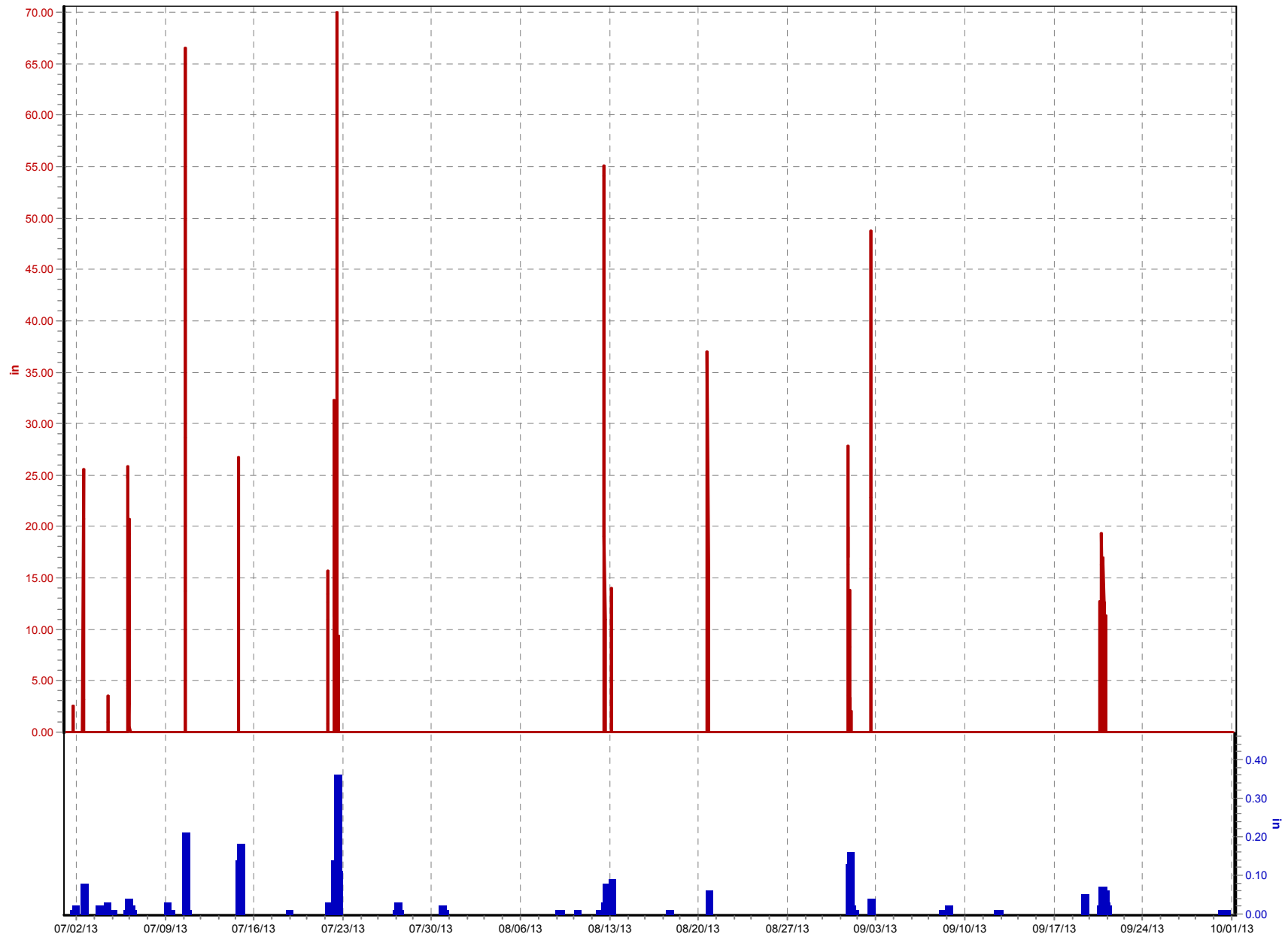
CSO118 Broadway and BGC (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



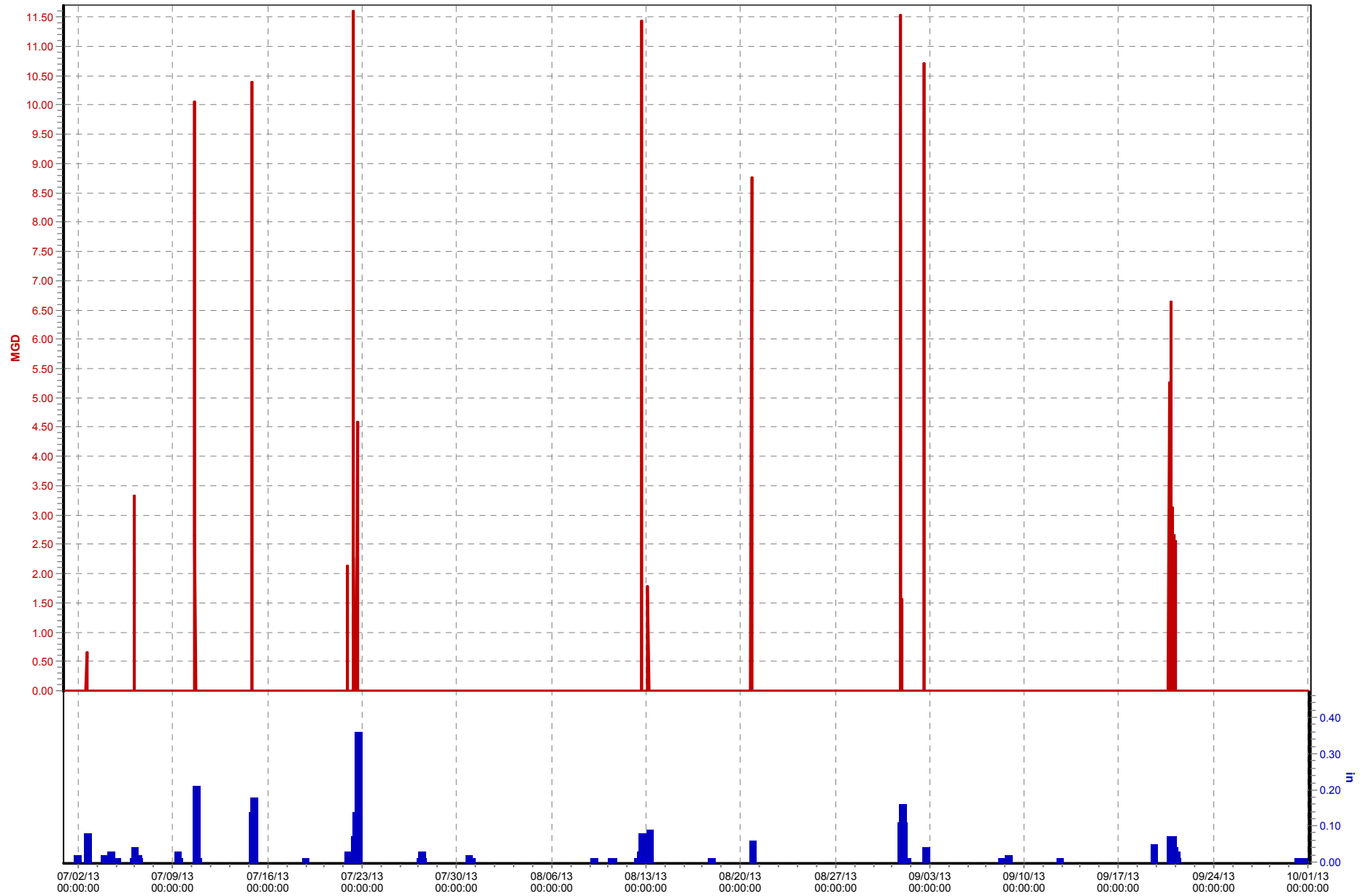
CSO119 (07/01/13 to 10/01/13)

☒ Overflow Level (in) ☒ TR05_Beargrass PS.Rain (in)



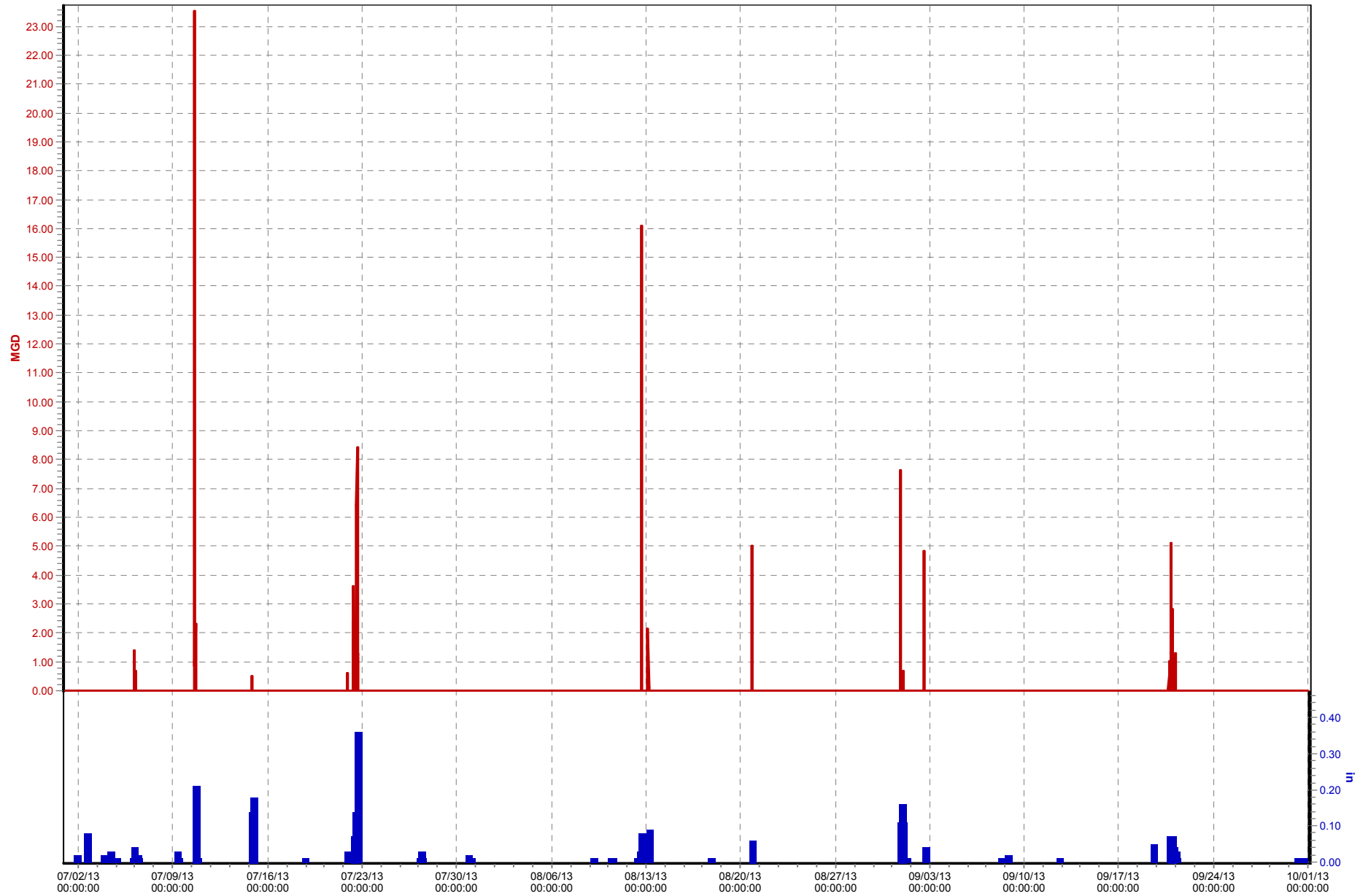
CSO120 Hamilton Ave (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



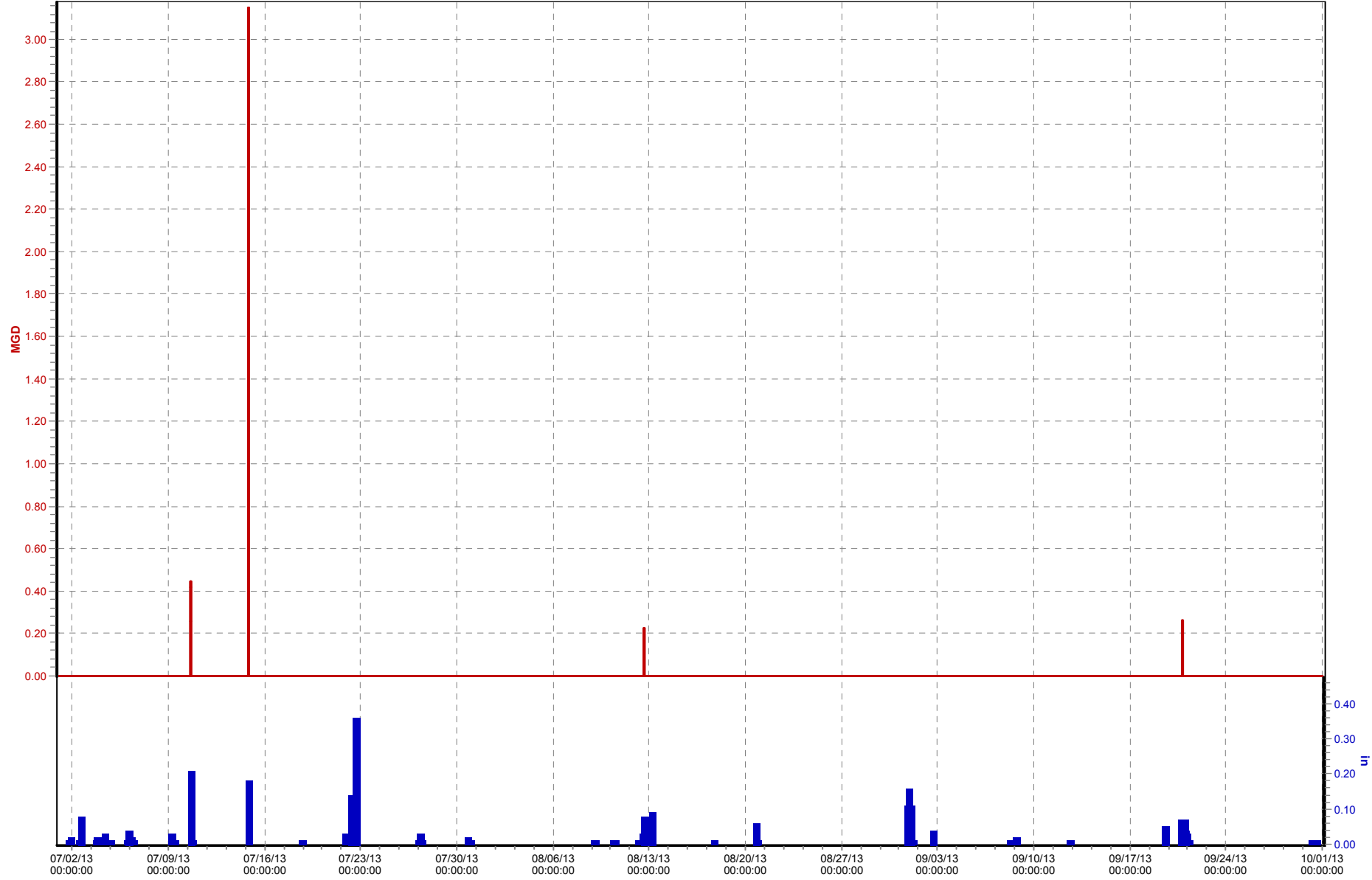
CSO121 Baxter and BGC (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



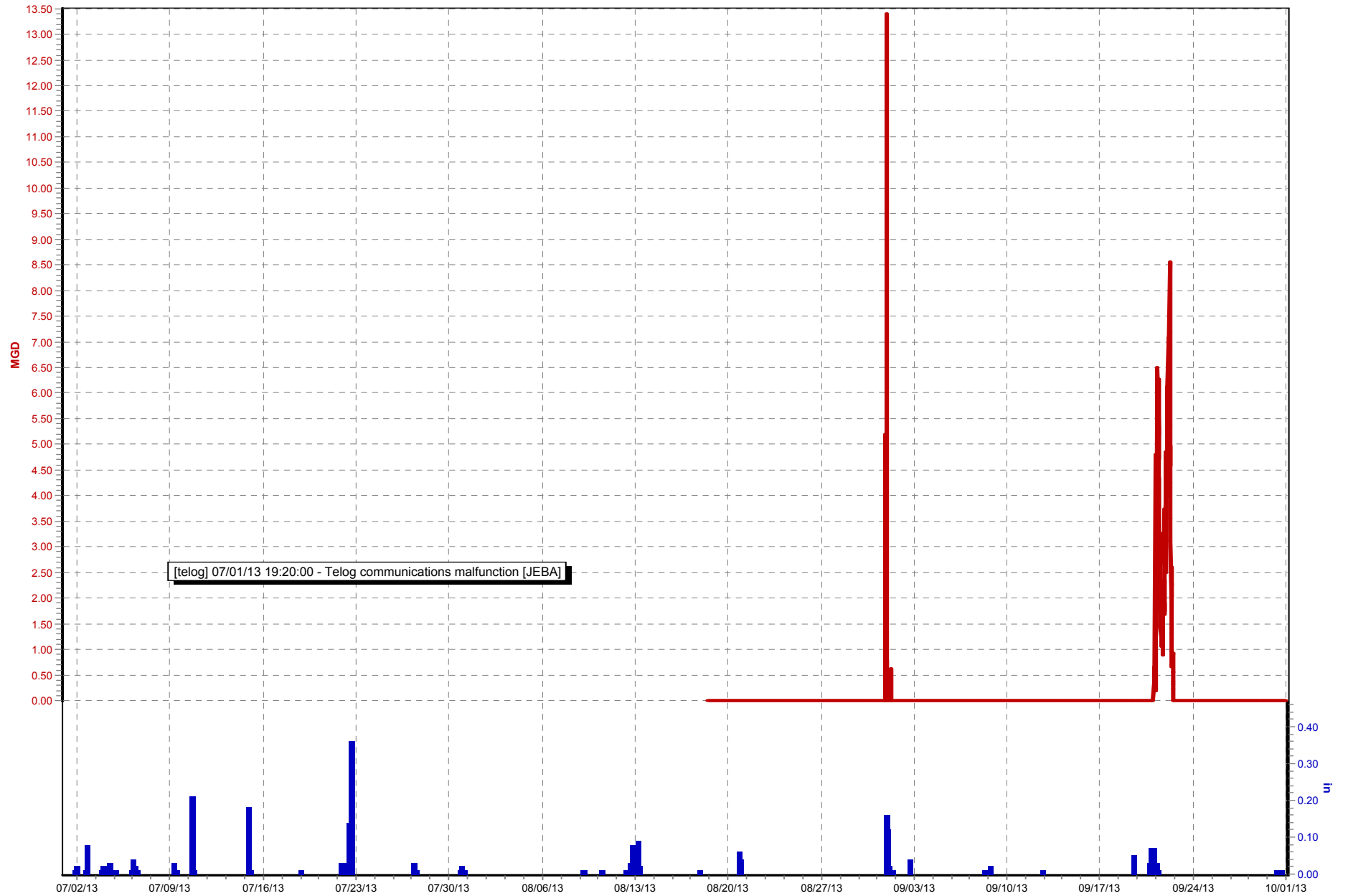
CSO125_Grinstead Dr I64W Ramp (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



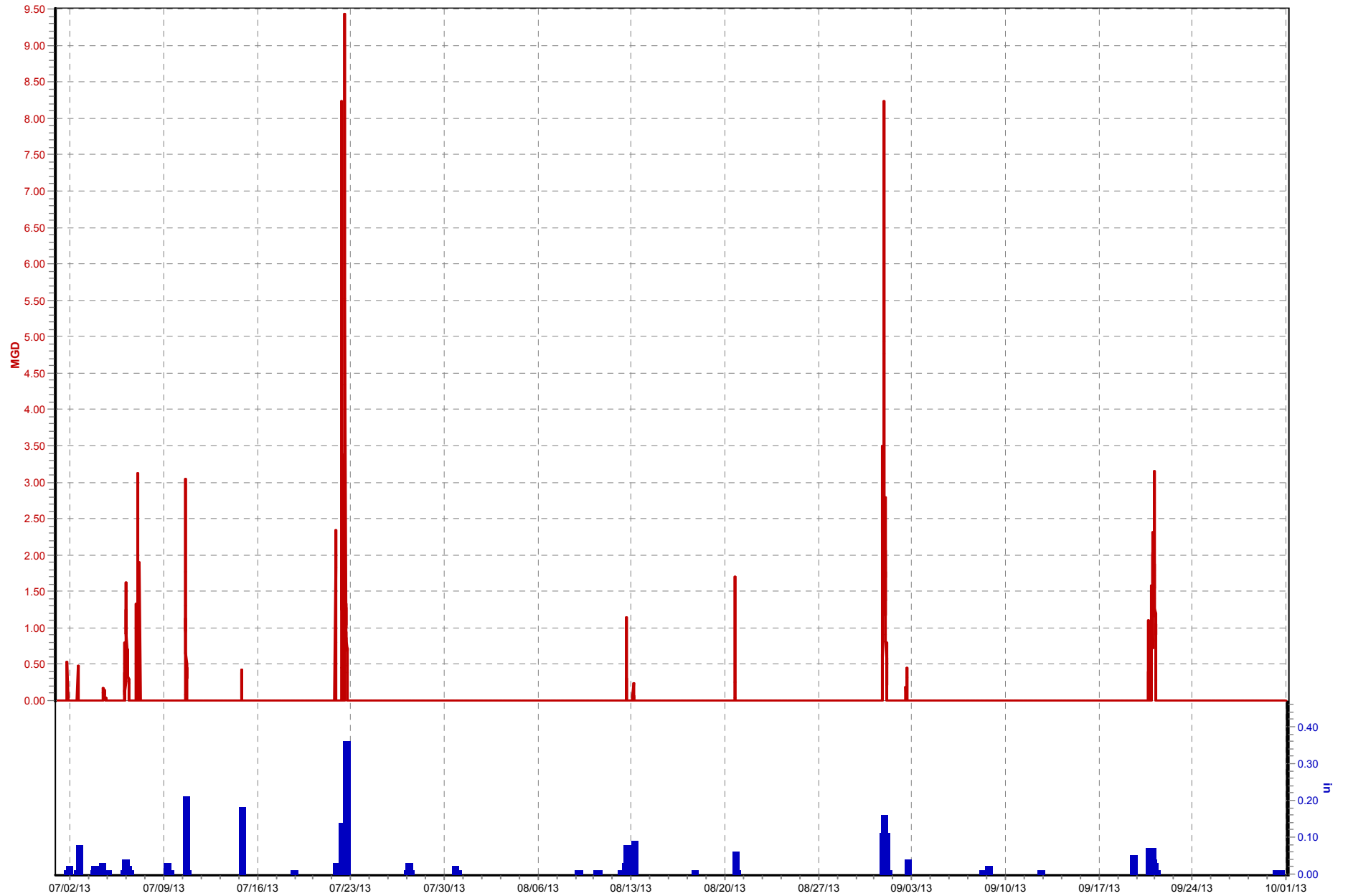
CSO126_Saunders (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



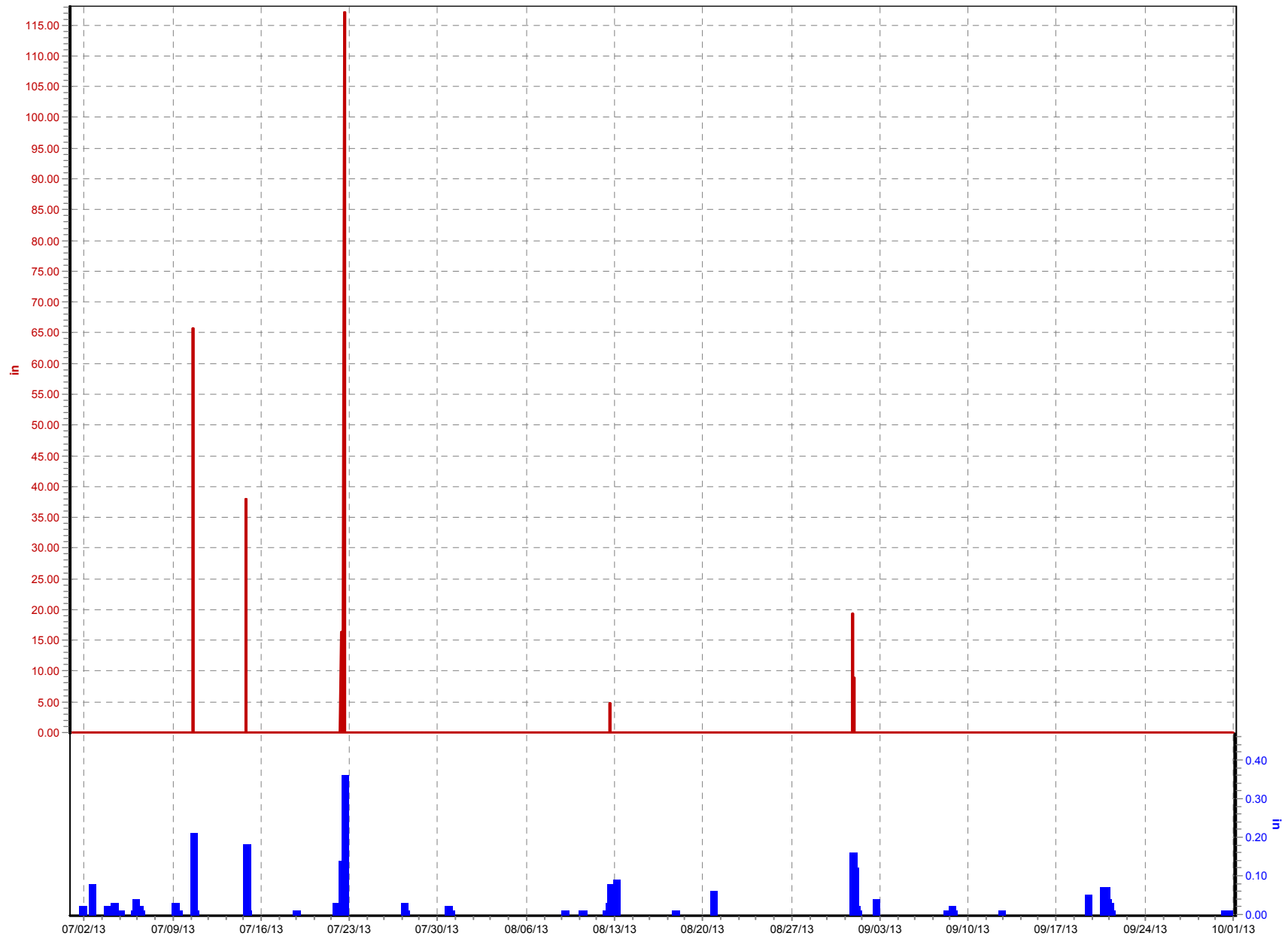
CSO130 Webster St n Story Ave (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



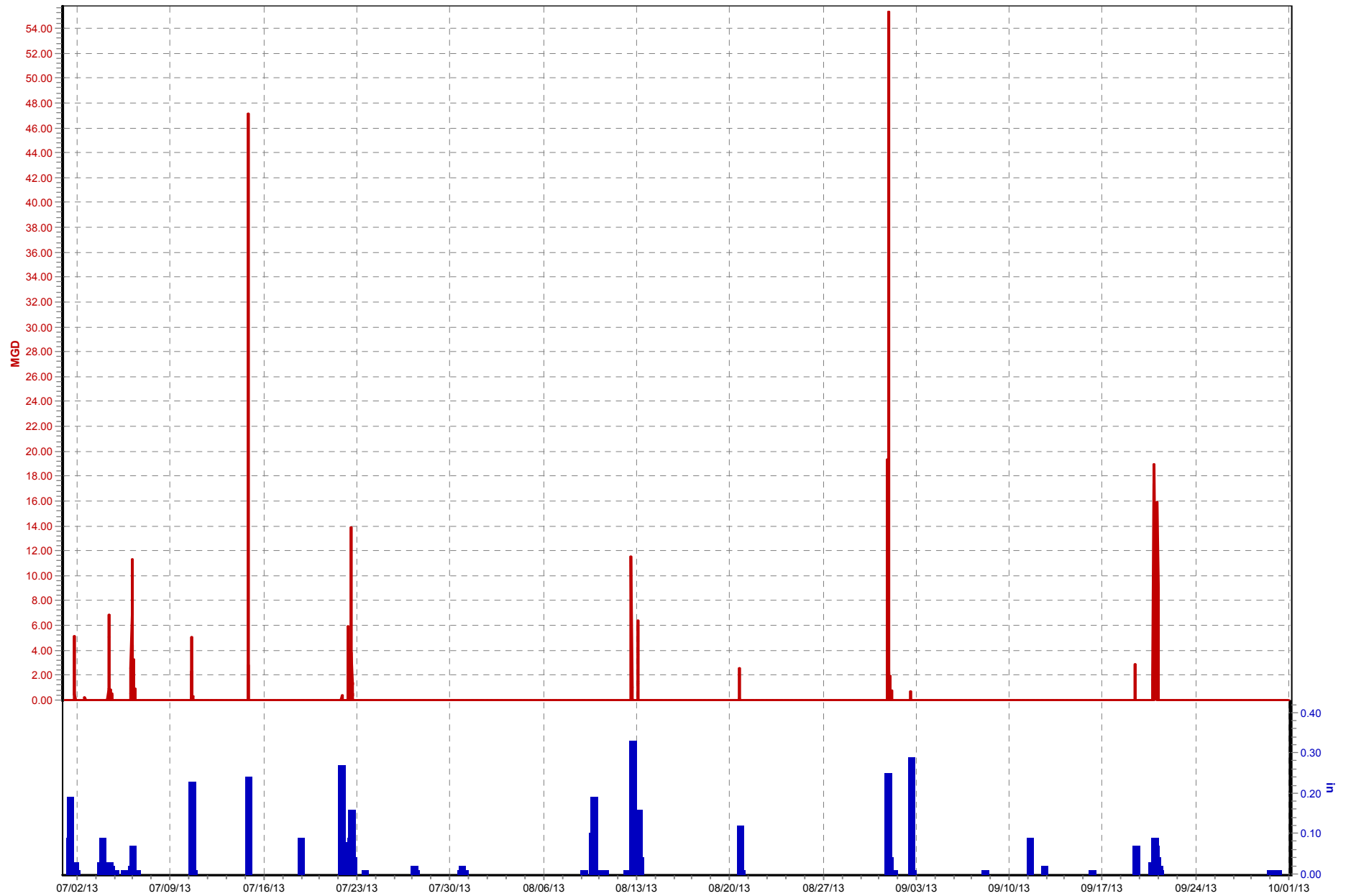
CSO131 Frankfort Ave (07/01/13 to 10/01/13)

☒ Overflow Level (counts) ☒ TR05_Beargrass PS.Rain (in)



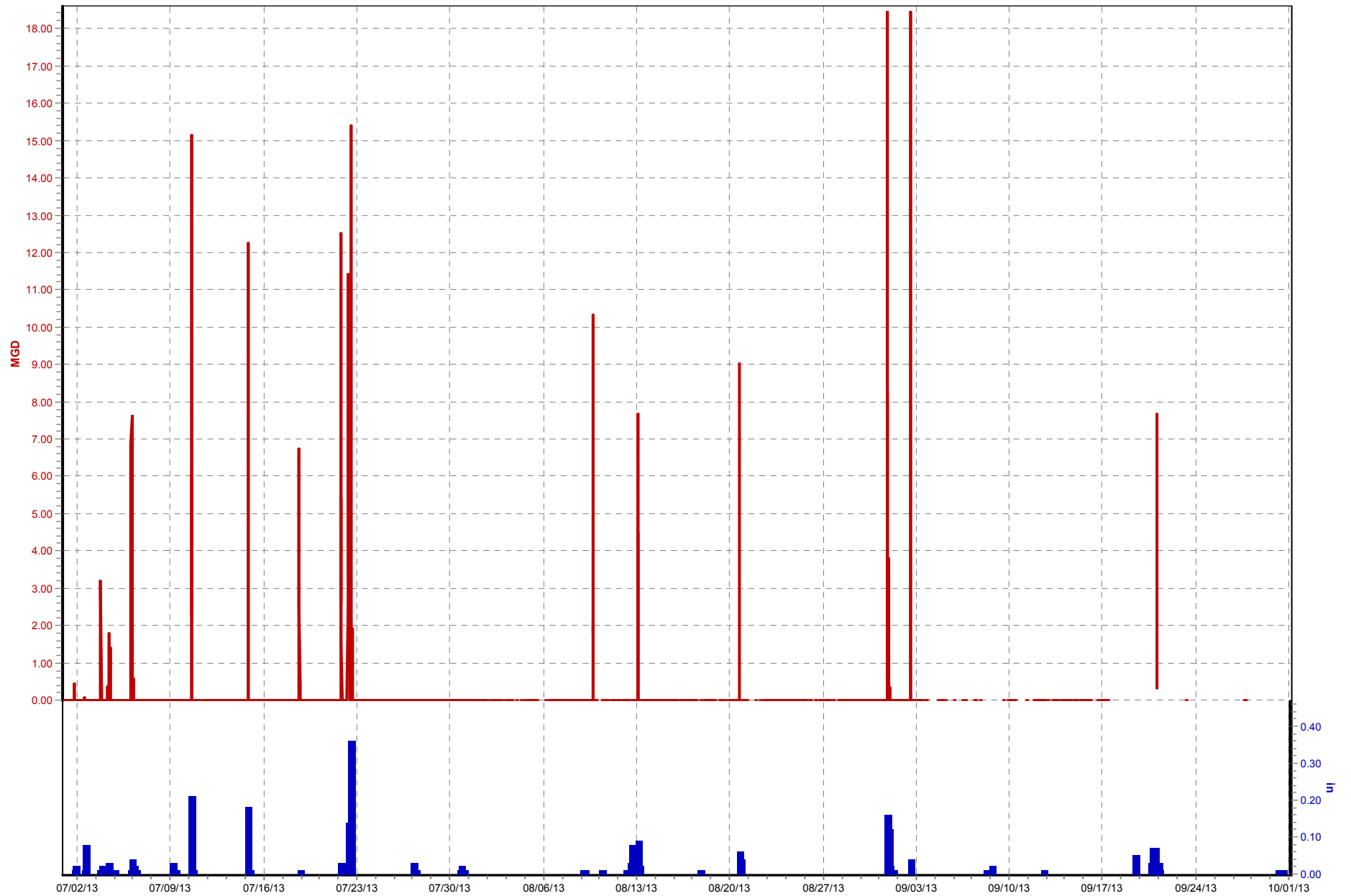
CSO132 Brownsboro Rd (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR12_Nightingale PS.Rain (in)



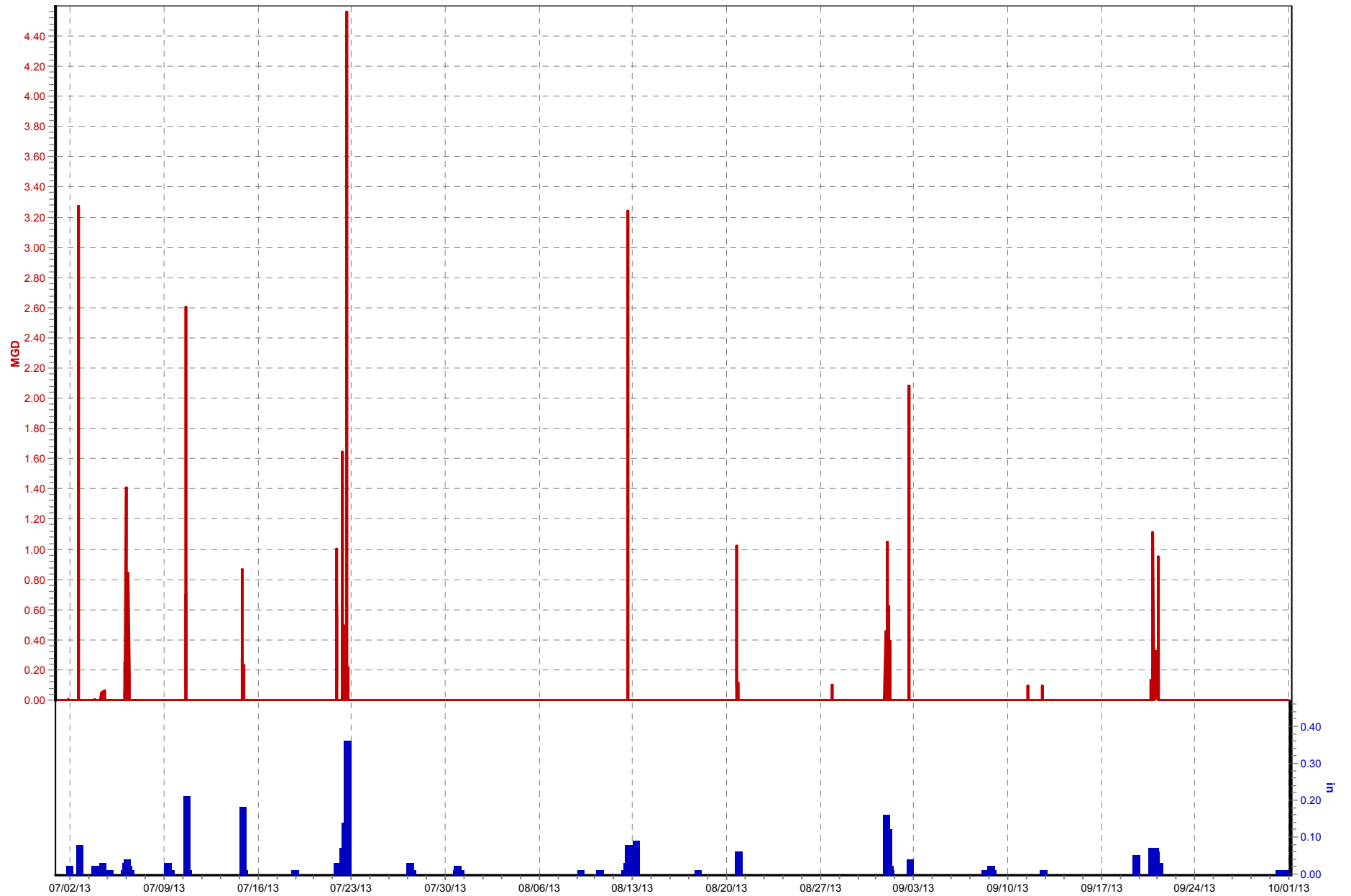
CSO137 Cavalry Cemetery (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



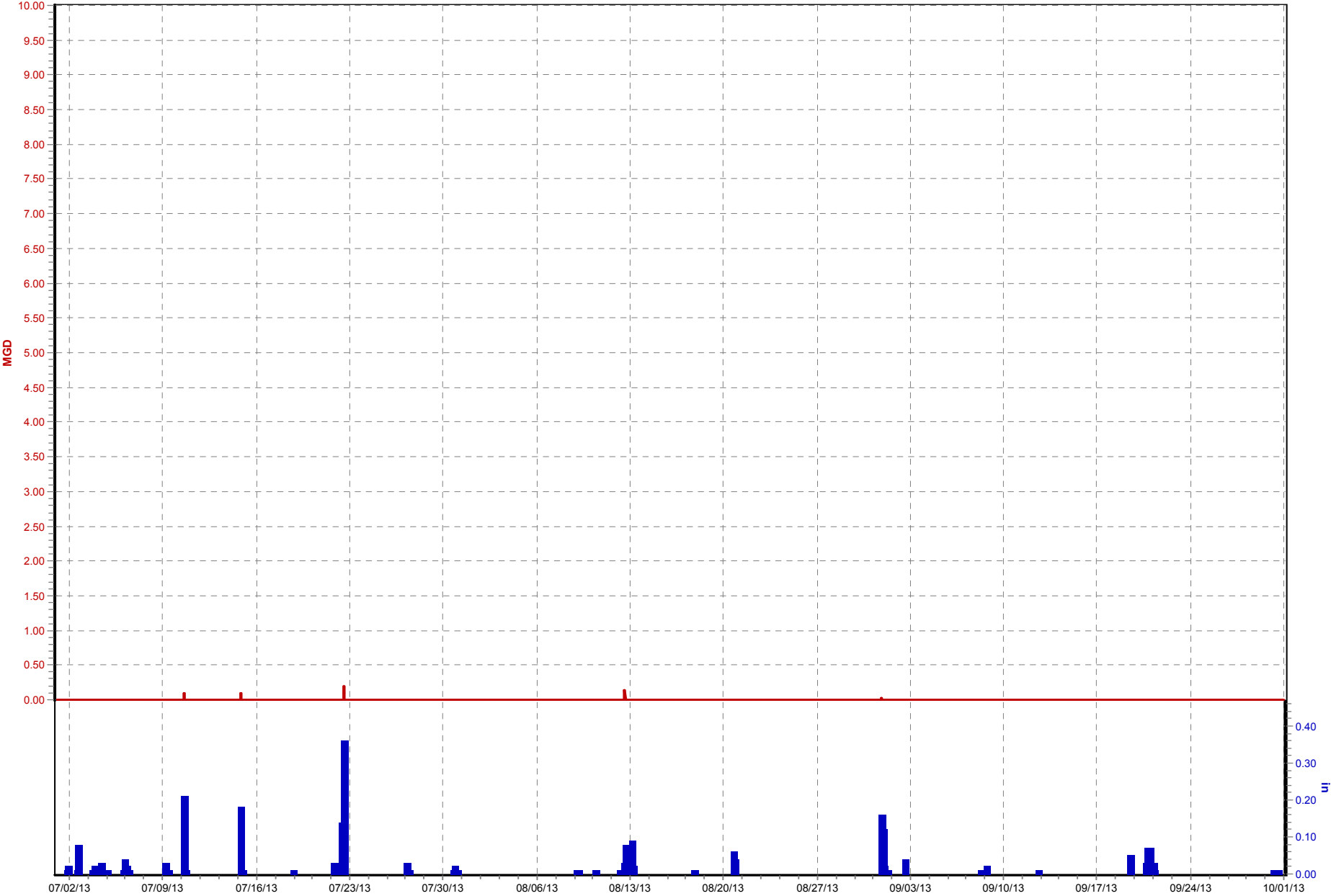
CSO141 Baxter_SF BGC (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



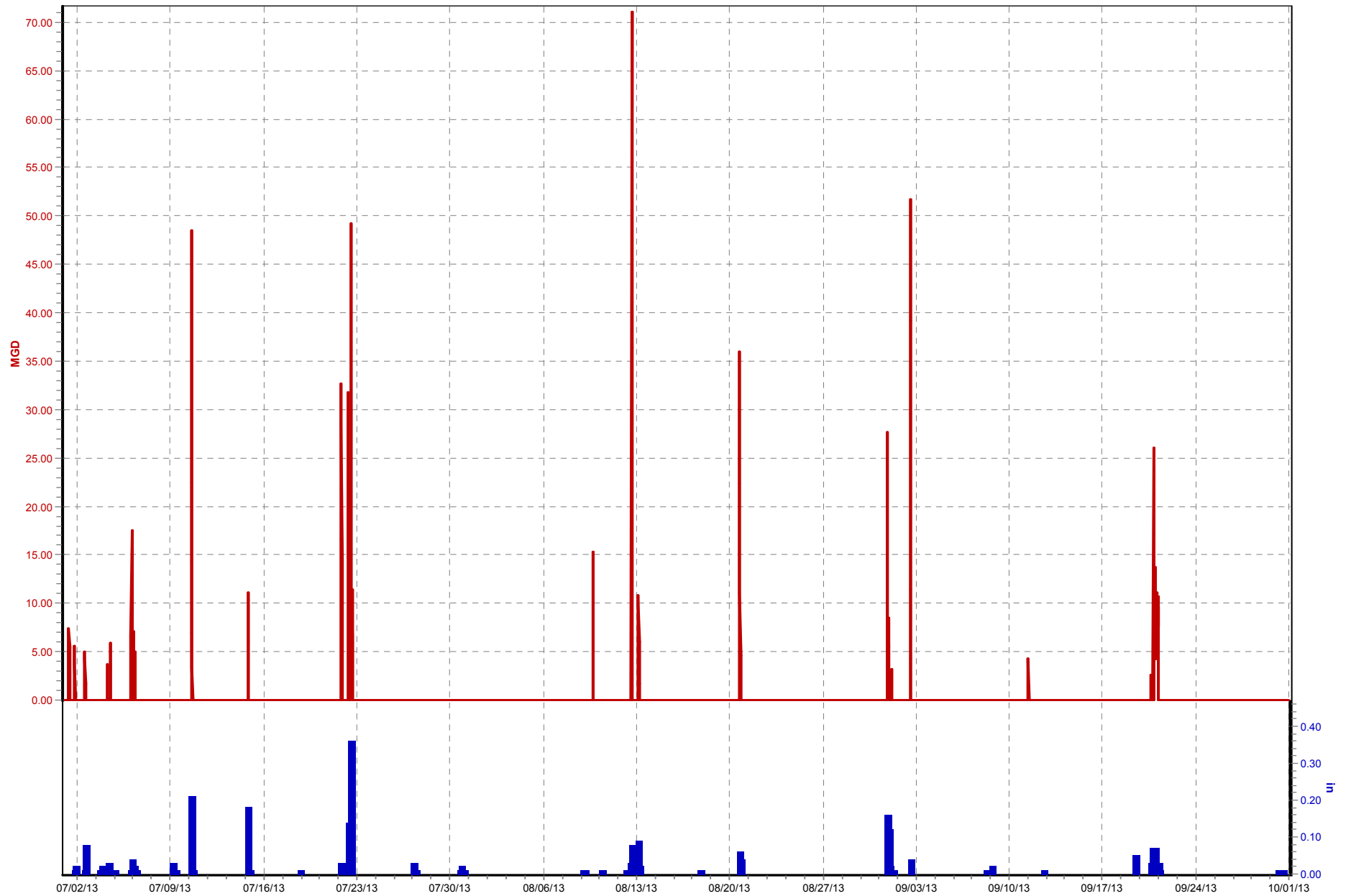
CSO144 Brauner Way (07/01/13 to 10/01/13)

☒ M1 Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



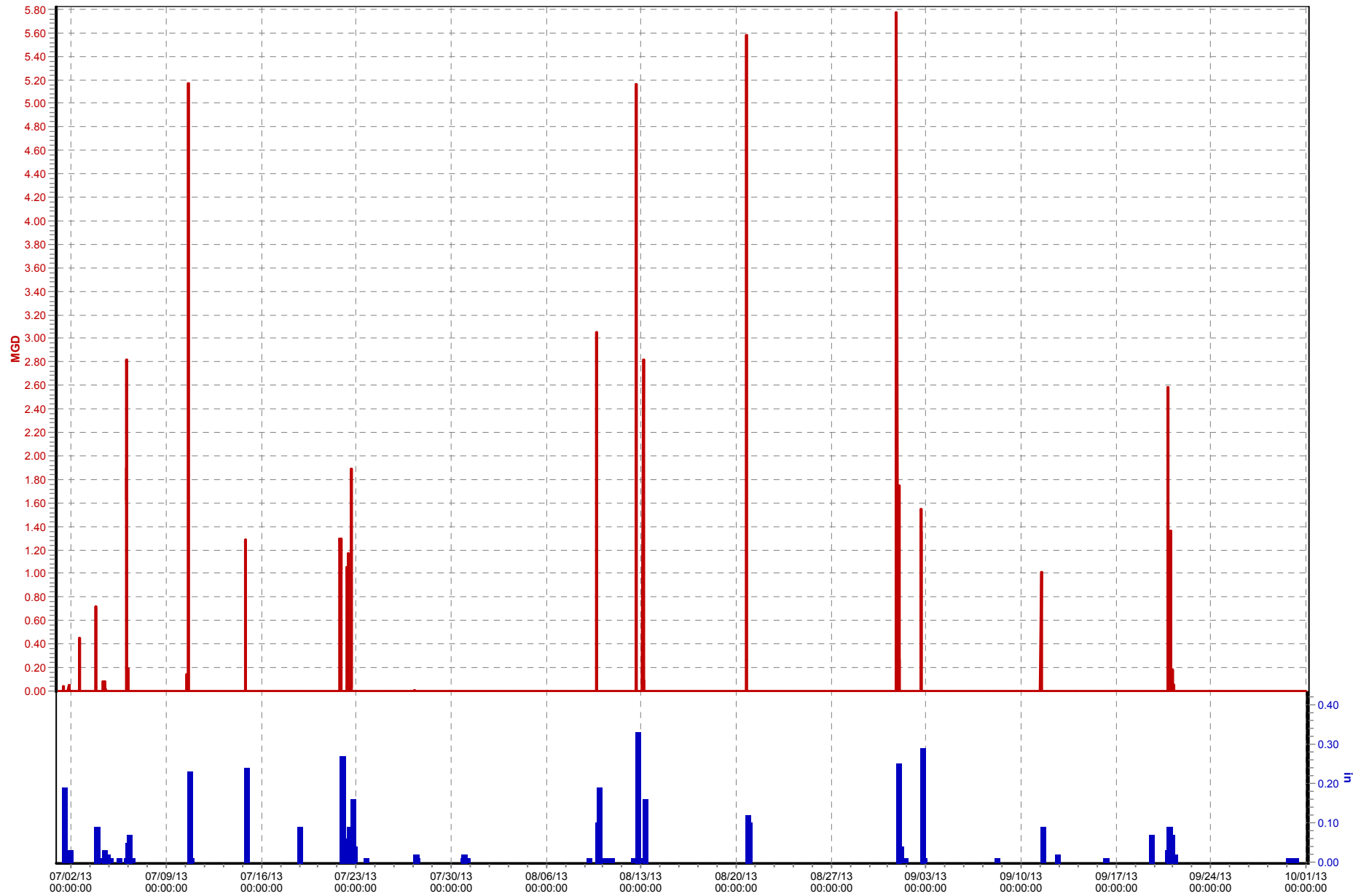
CSO146 Swan St (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



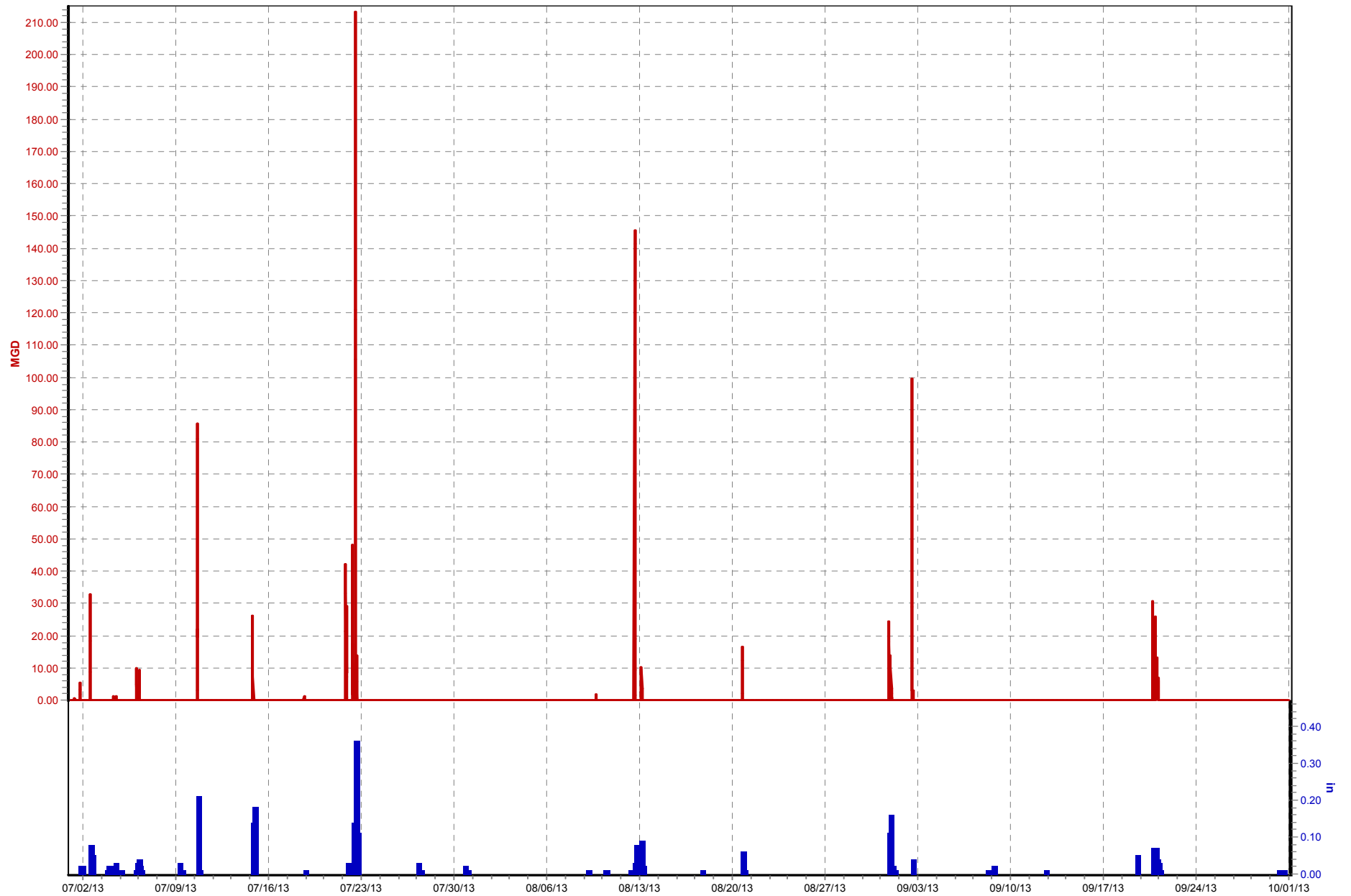
CSO148 Eastern Pkwy (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR12_Nightingale PS.Rain (in)



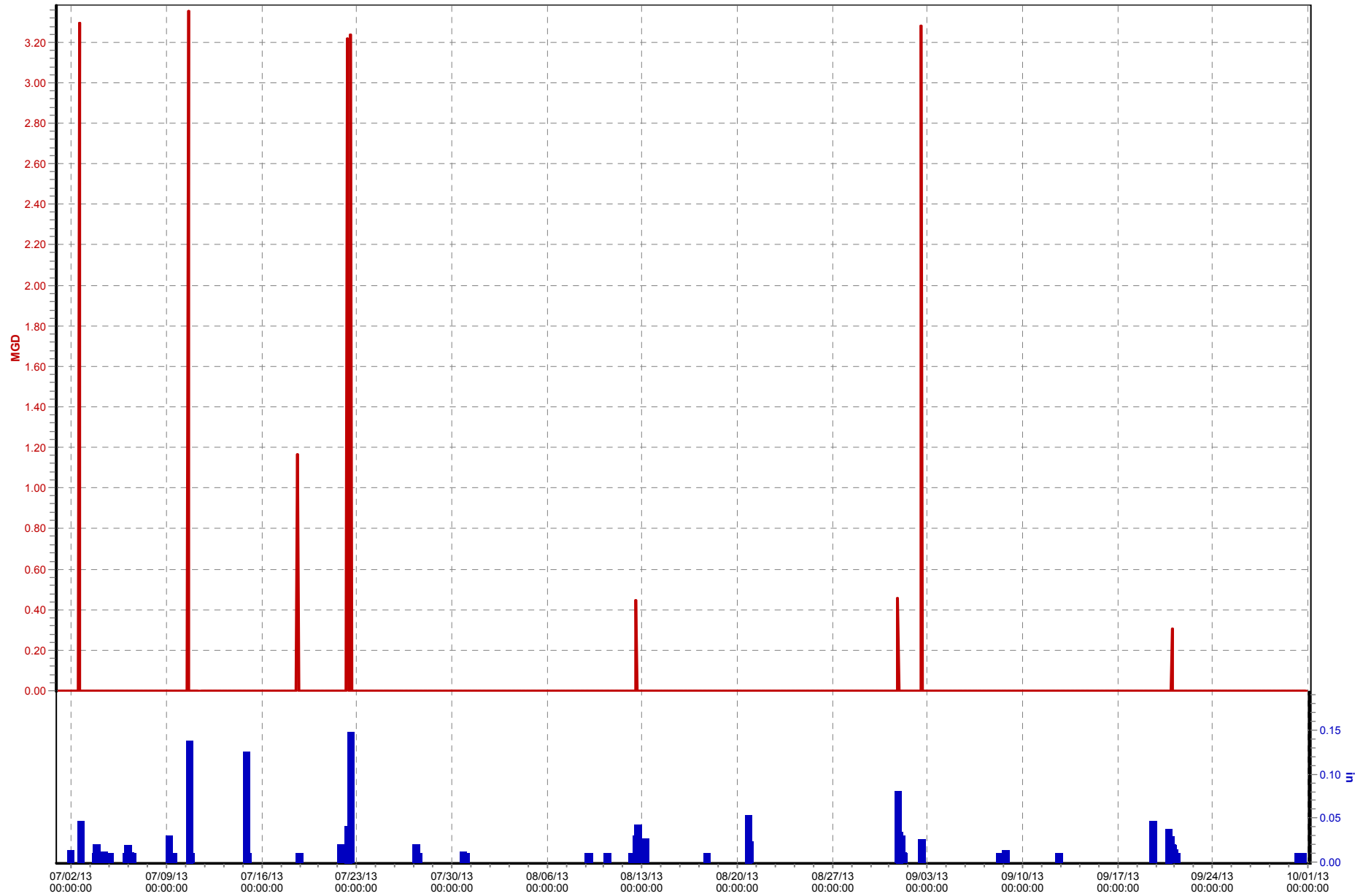
CSO149 KY St_St Paul Ct (07/01/13 to 10/01/13)

☒ Flow 1-CSO149 (MGD) ☒ TR05_Beargrass PS.Rain (in)



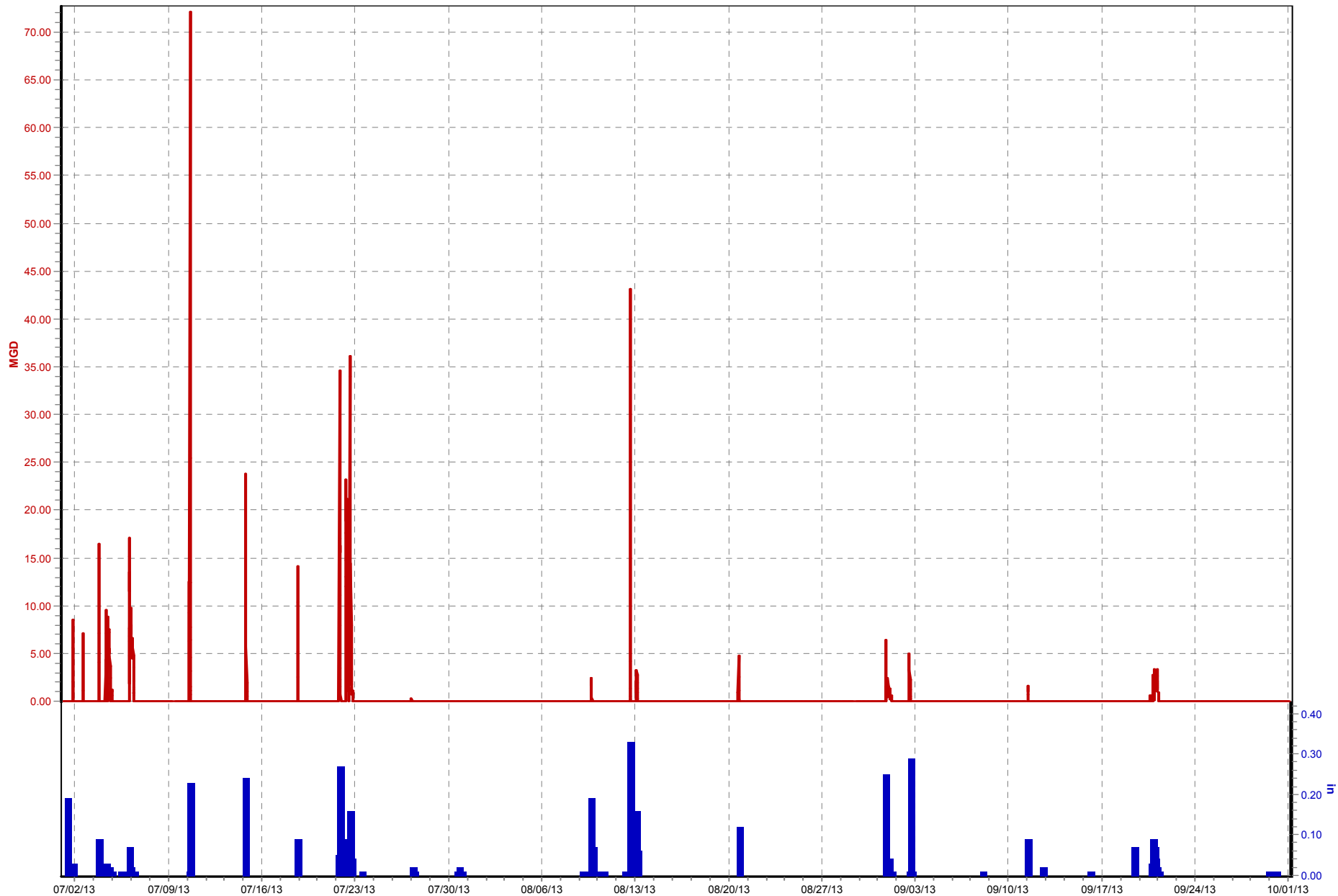
CSO150 8th St_Wash St (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



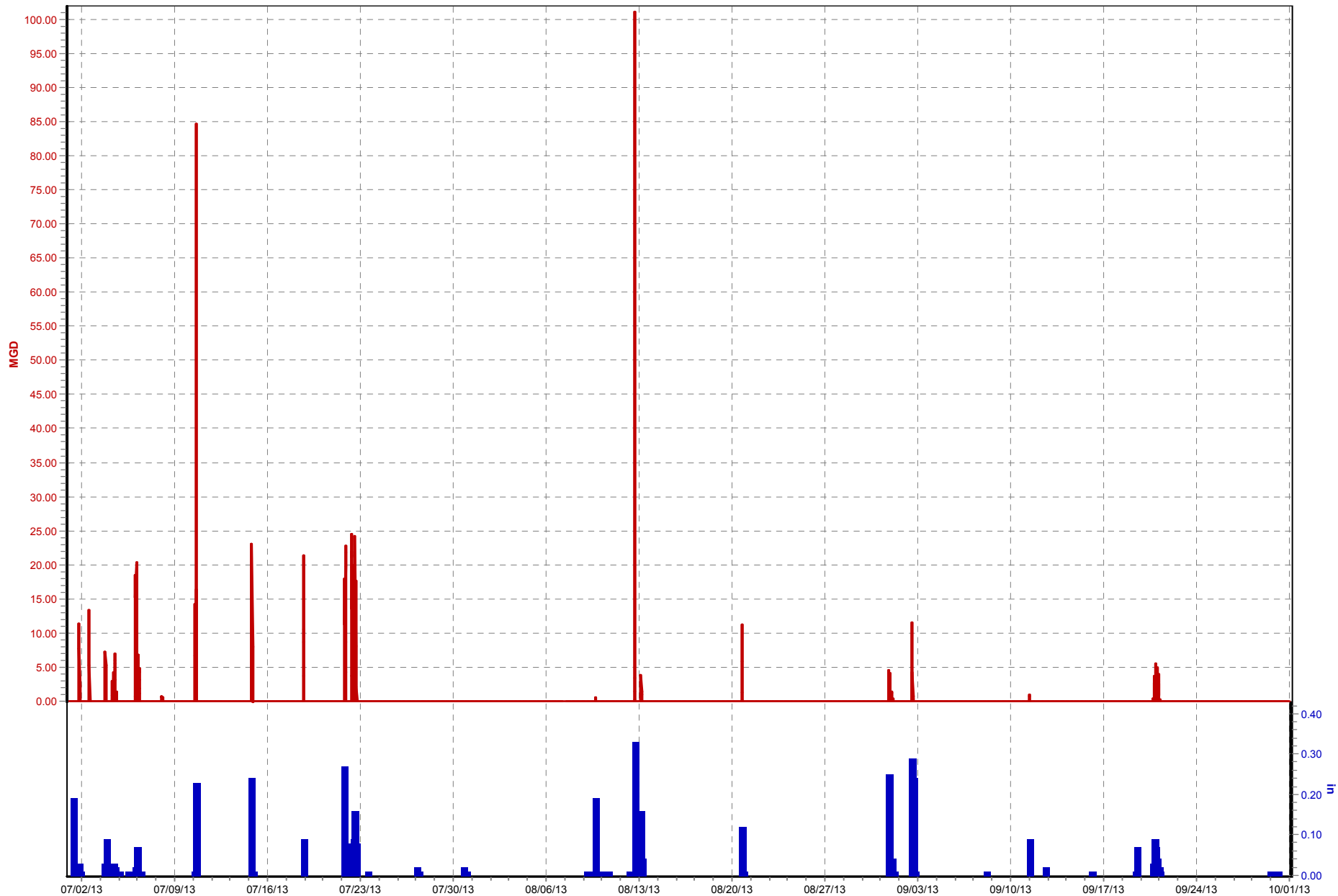
CSO151_CSO and Upstream (07/01/13 to 10/01/13)

☒ CSO Flow MGD (MGD) ☒ TR12_Nightingale PS.Rain (in)



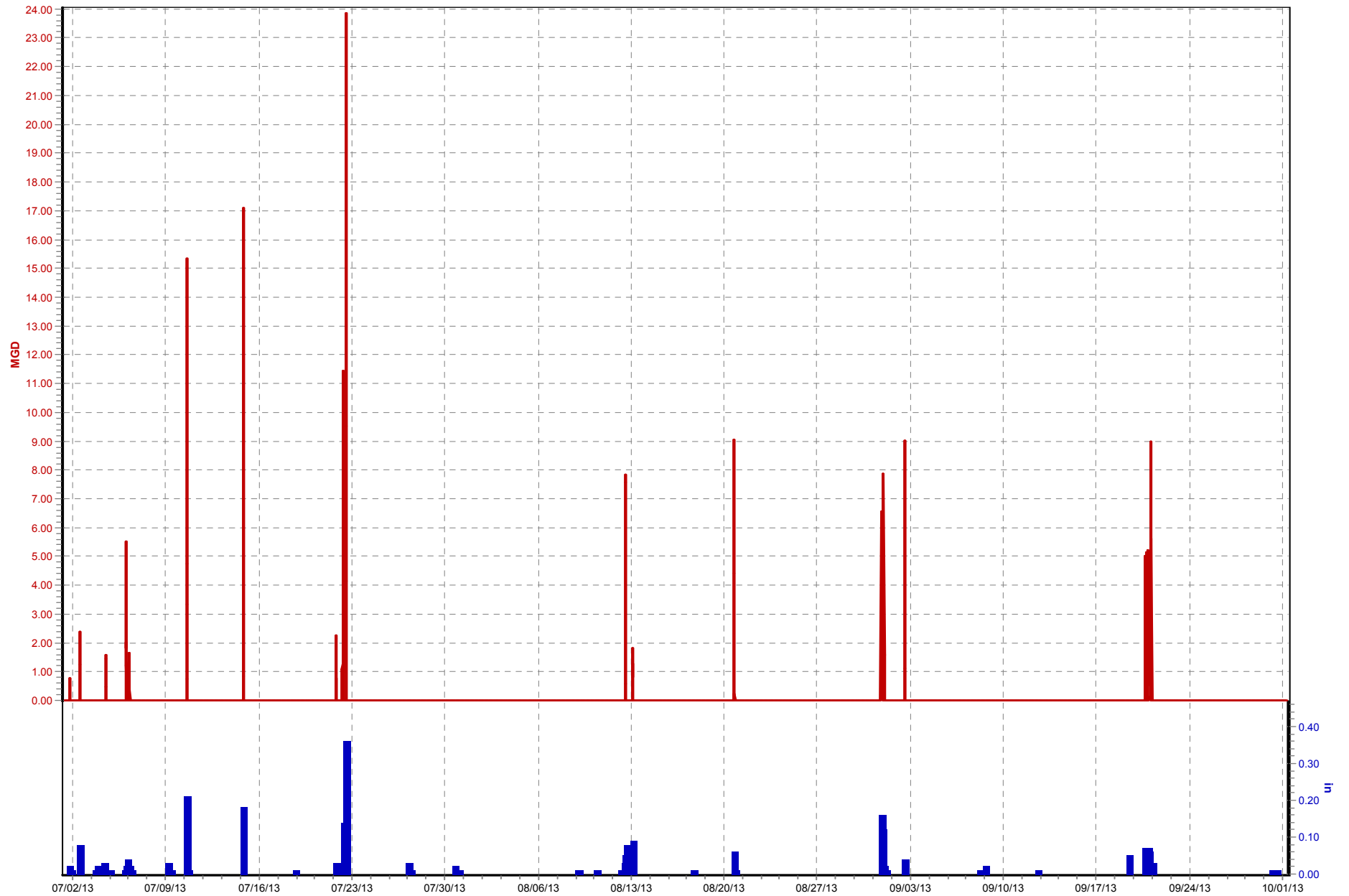
CSO152_CSO and Upstream (07/01/13 to 10/01/13)

☒ CSO Flow MGD (MGD) ☒ TR12_Nightingale PS.Rain (in)



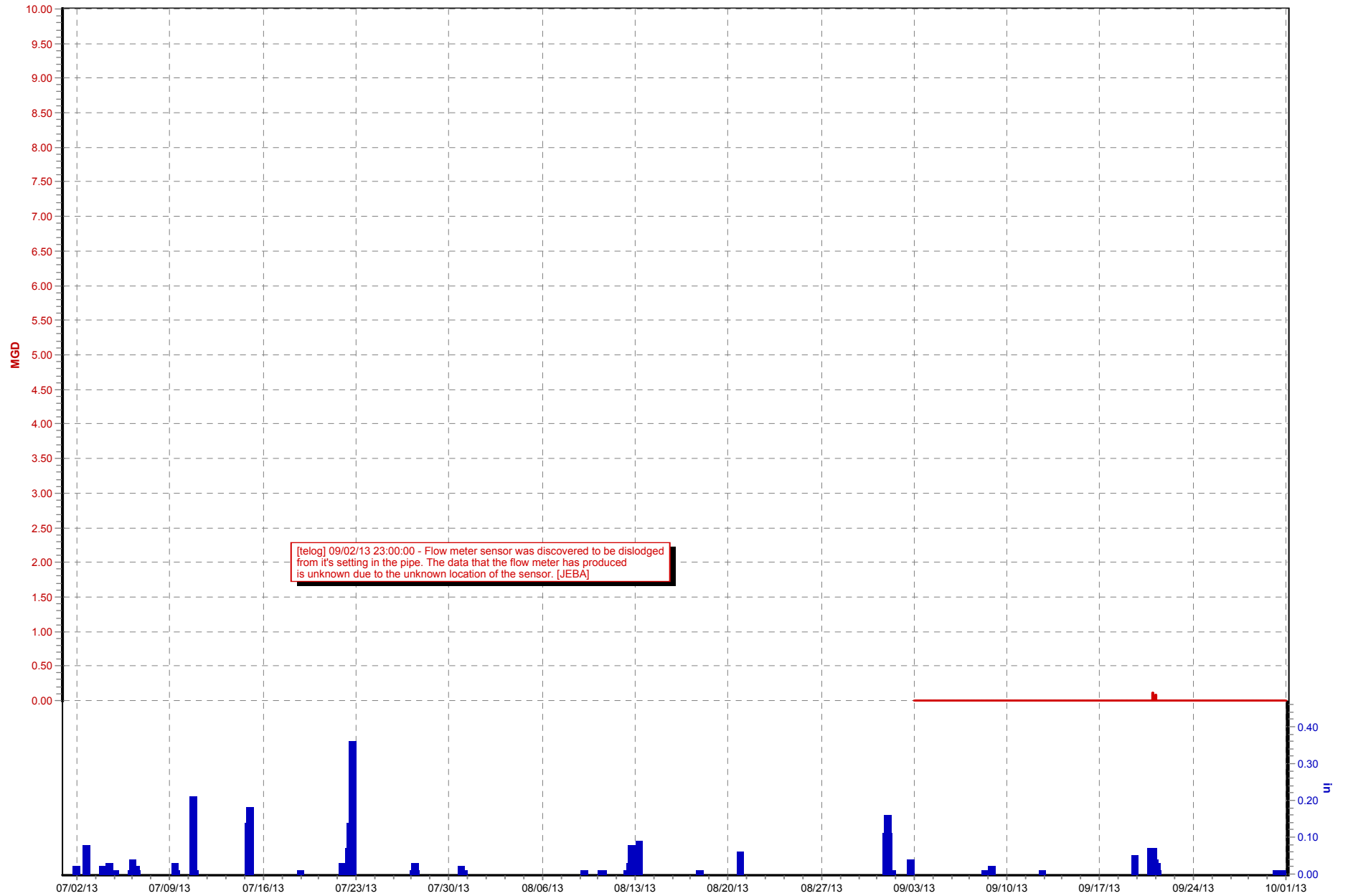
CSO153 Lex Rd (07/01/13 to 10/01/13)

☒ 1Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



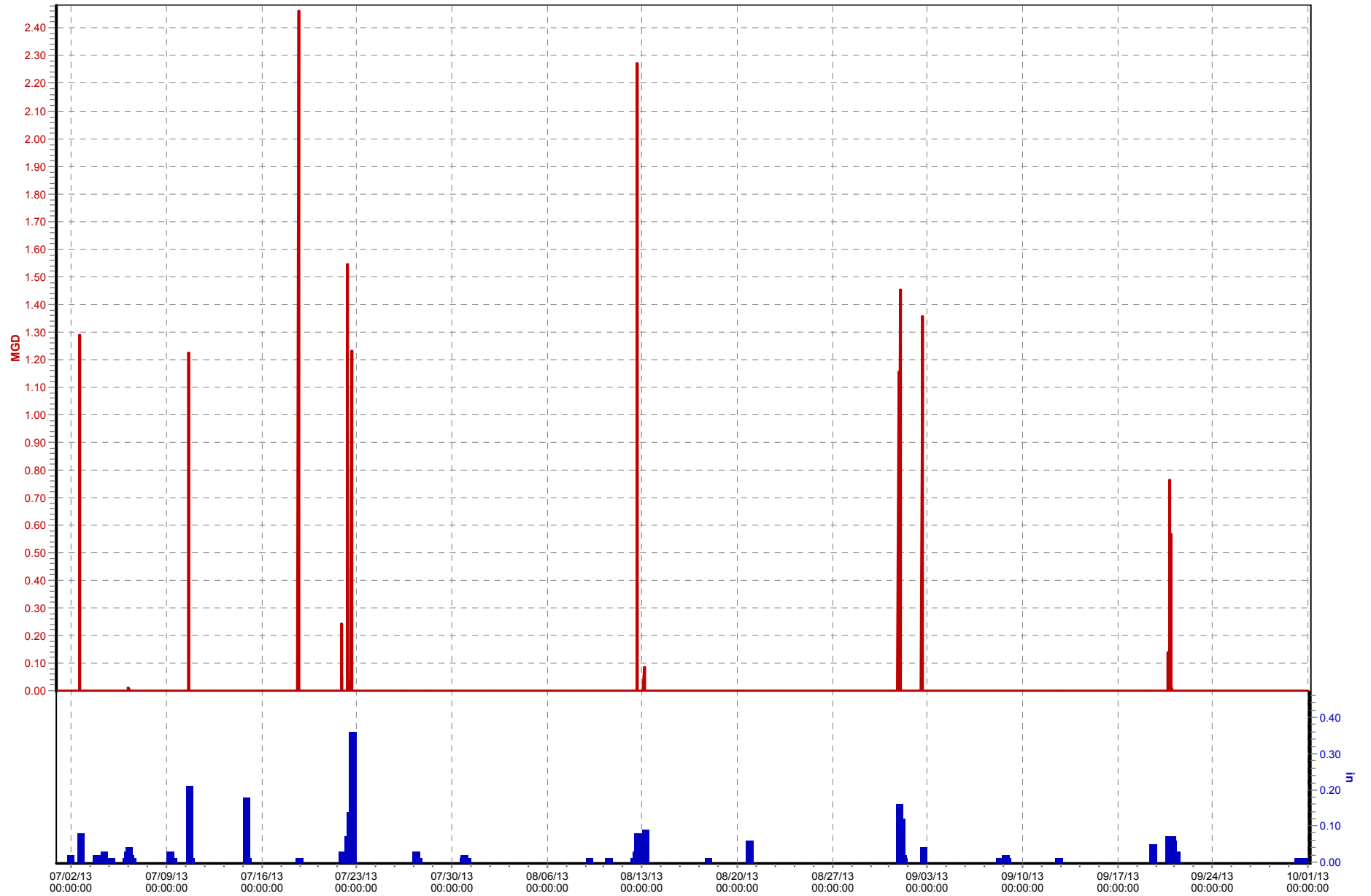
CSO154 Mellwood Ave (07/01/13 to 10/01/13)

☒ Final Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



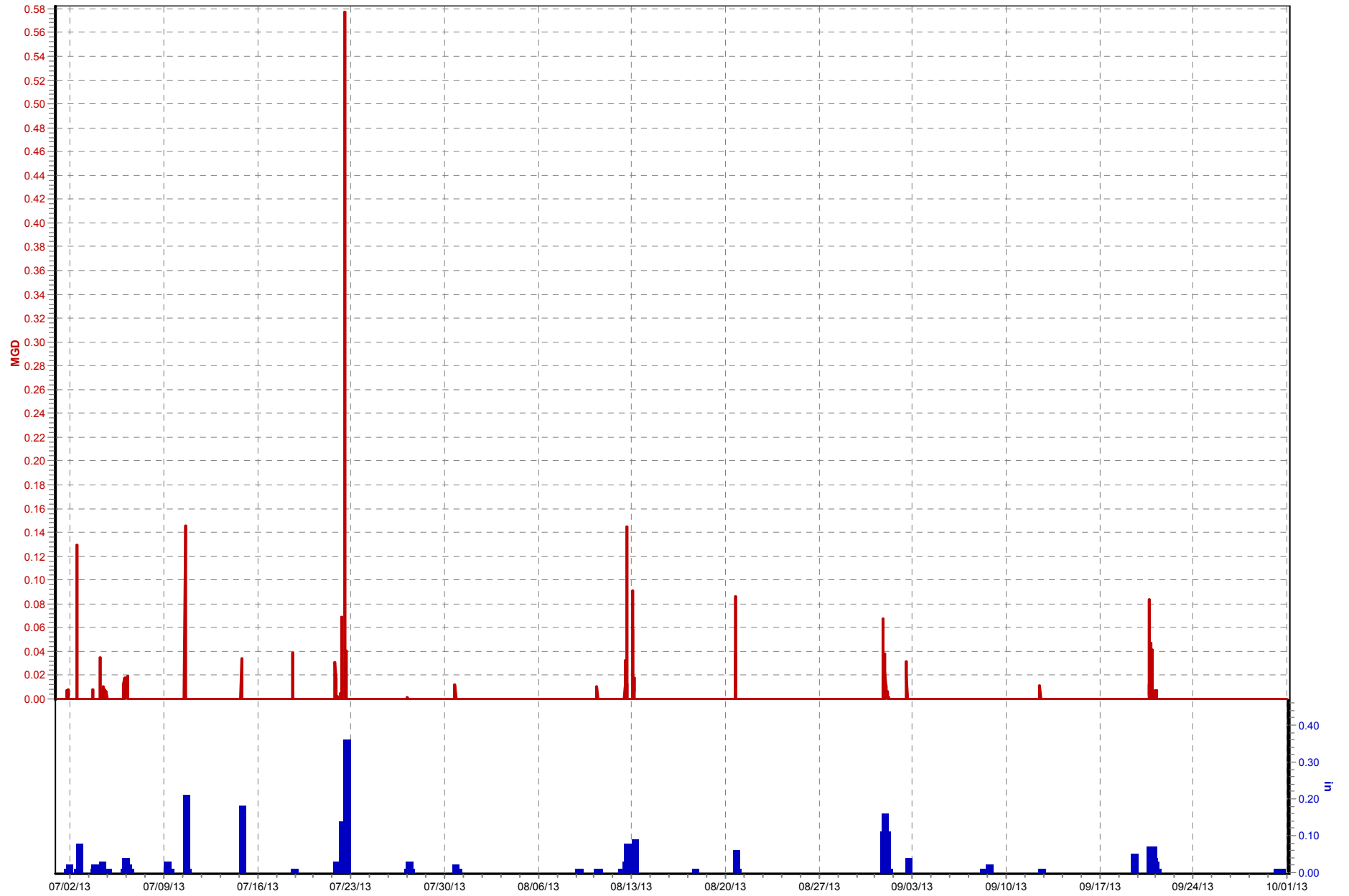
CSO155 Rowan St (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



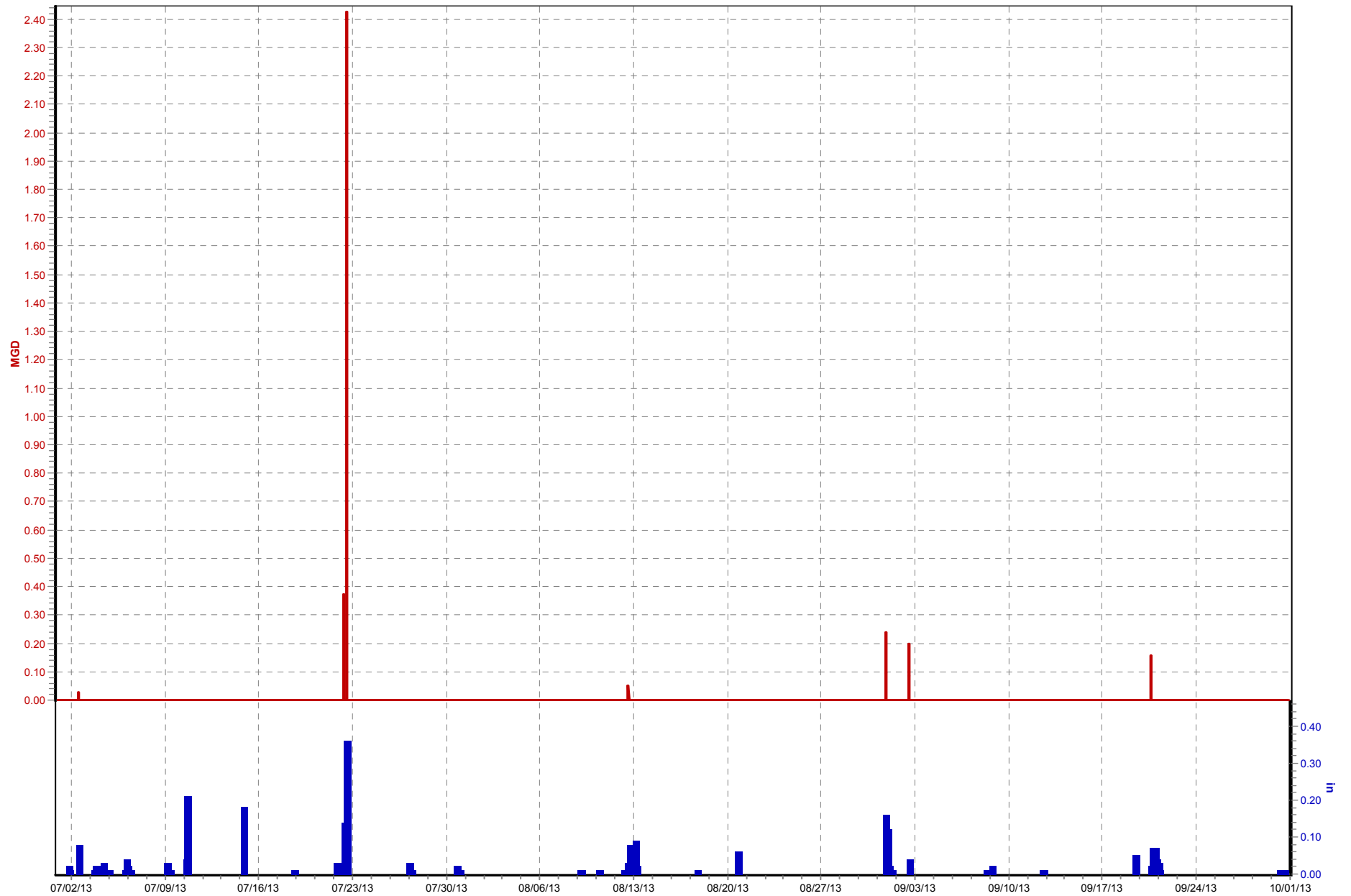
CSO160 1st St (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



CSO161 1st and Market St (06/30/13 to 09/30/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



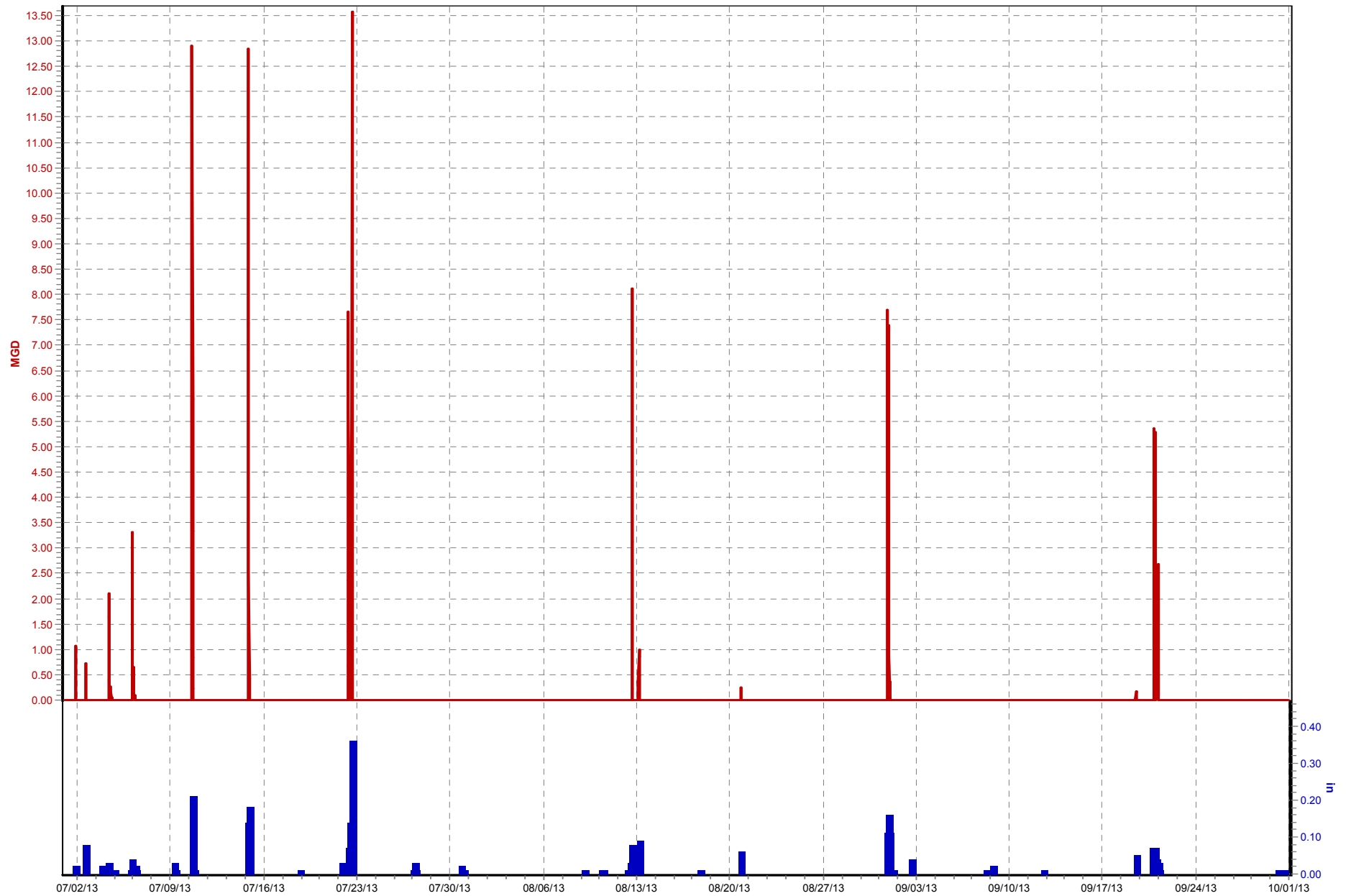
CSO166 Lex Rd (07/01/13 to 10/01/13)

☒ Flow 1 (MGD)
 ☒ FM1046.Flow 1 (MGD)
 ☒ TR05_Beargrass PS.Rain (in)



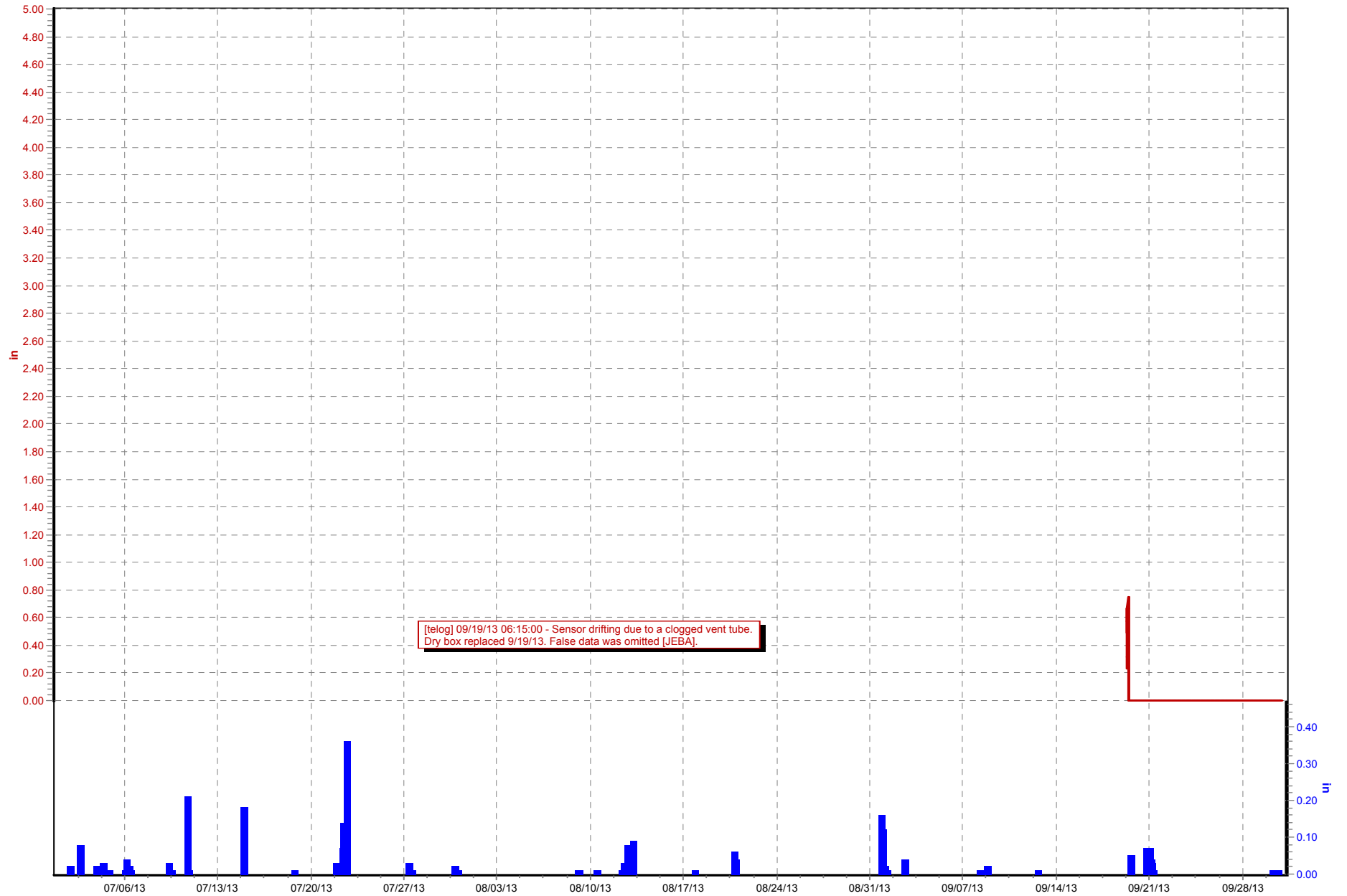
CSO167 Brownsboro Rd (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



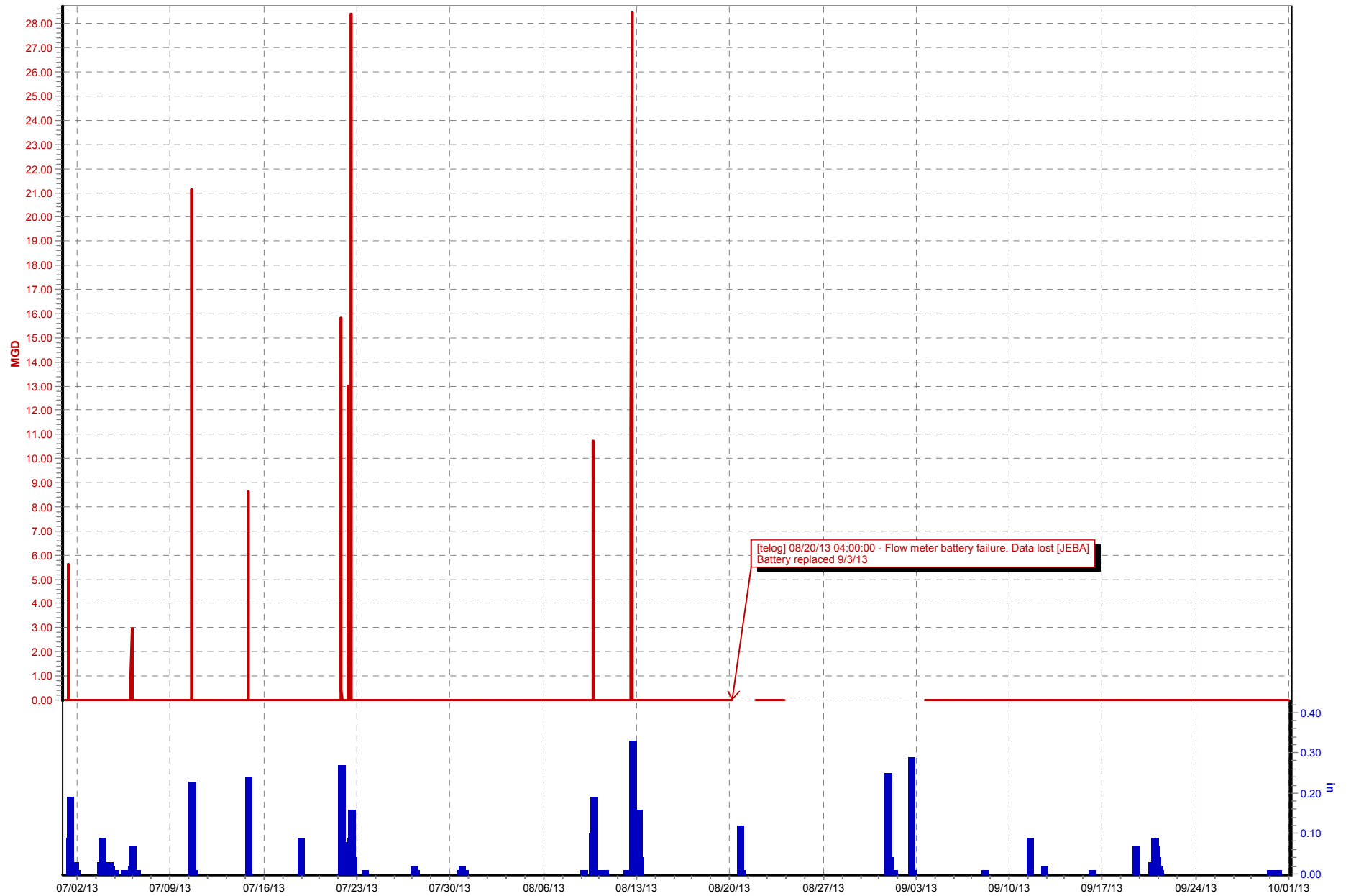
CSO172 River Road (07/01/13 to 10/01/13)

☒ Discharge Level (in) ☒ TR05_Beargrass PS.Rain (in)



CSO174 Goss_Boyle Ave (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR12_Nightingale PS.Rain (in)



CSO178_CSO Upstream (07/01/13 to 10/01/13)

☐ Flow (MGD)
 ☒ Est Level (in)
 ☒ TR05_Beargrass PS.Rain (in)

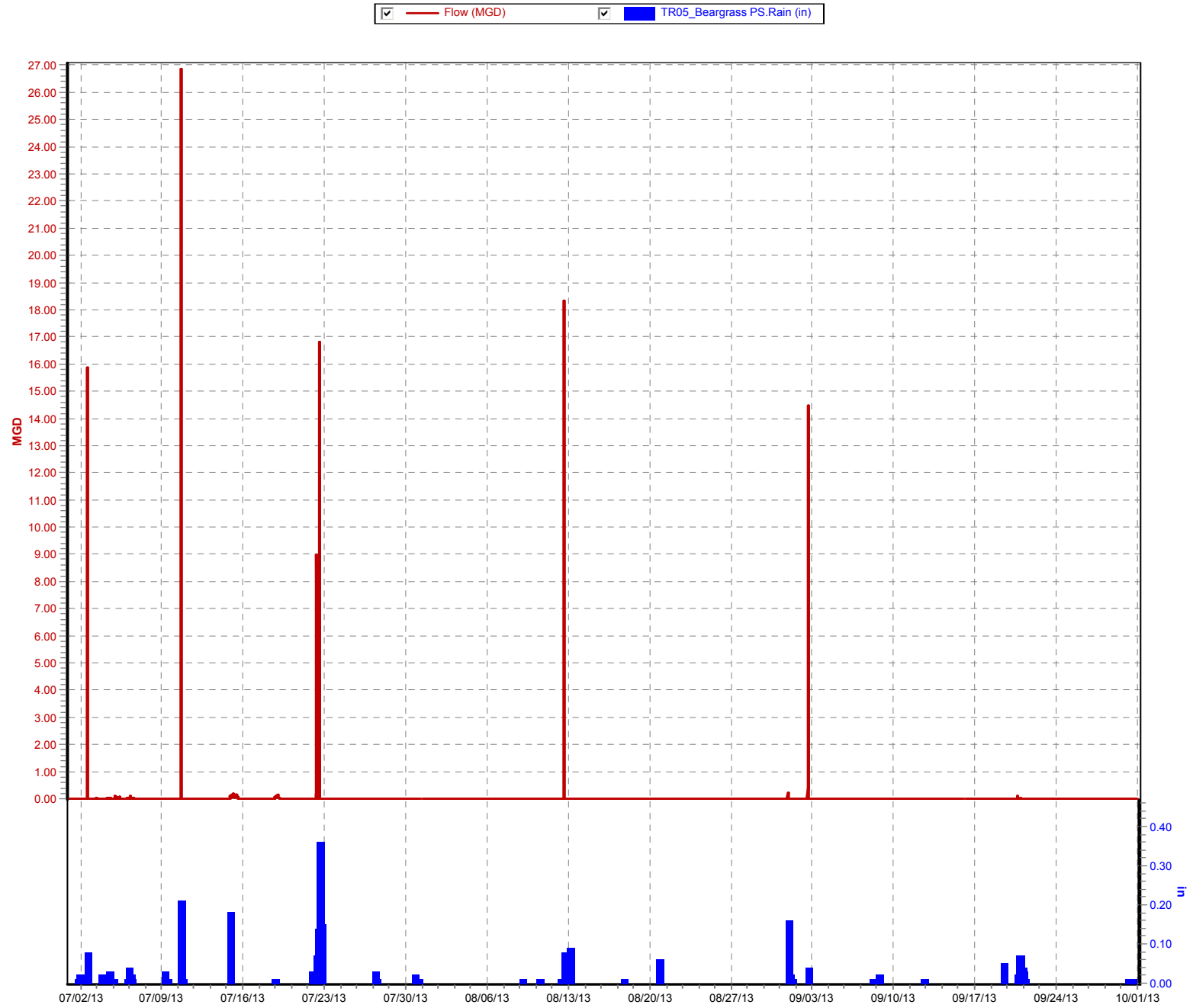


CSO180 E Ormsby_Clay St (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR12_Nightingale PS.Rain (in)

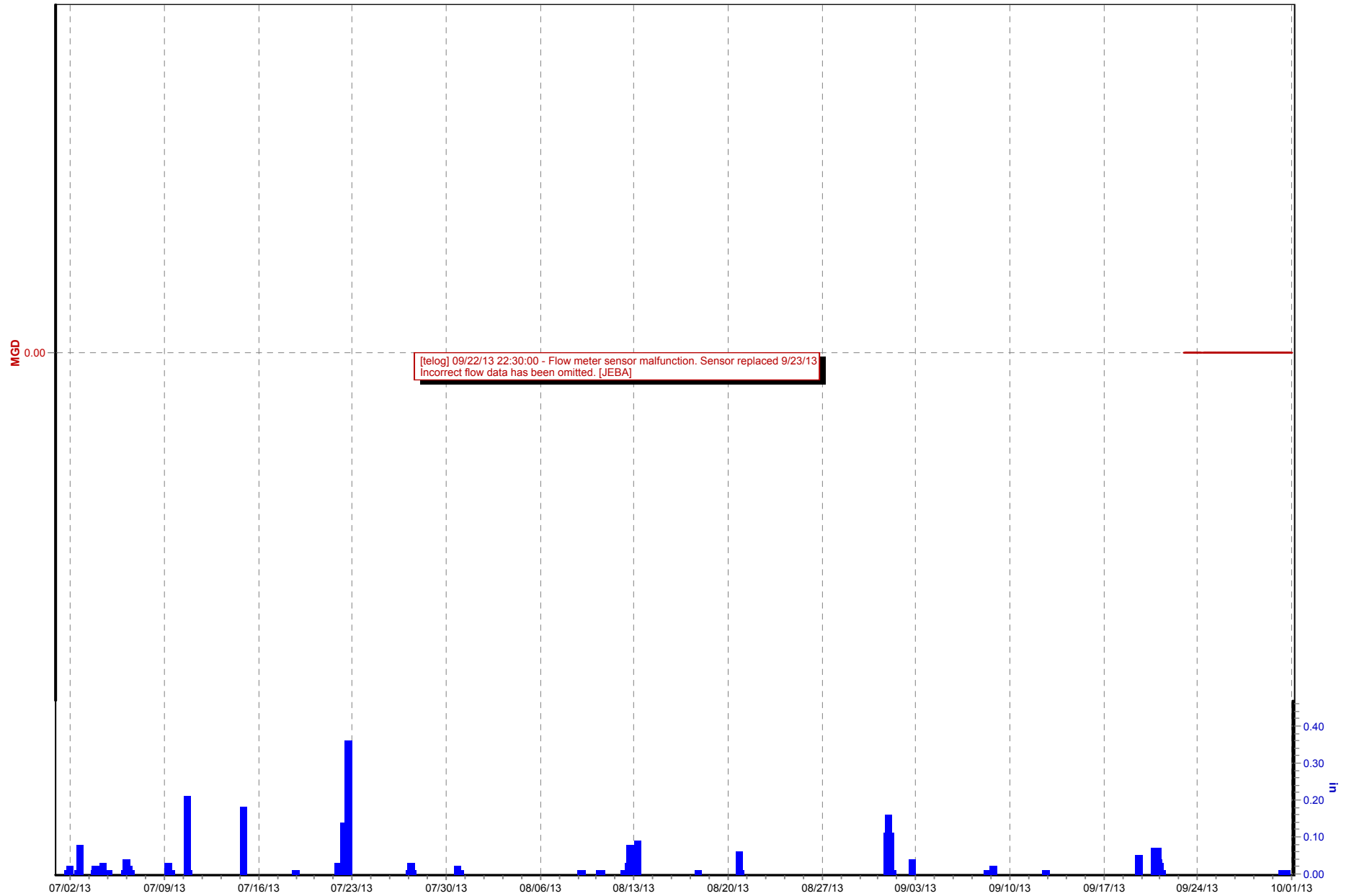


CSO181 (07/01/13 to 10/01/13)



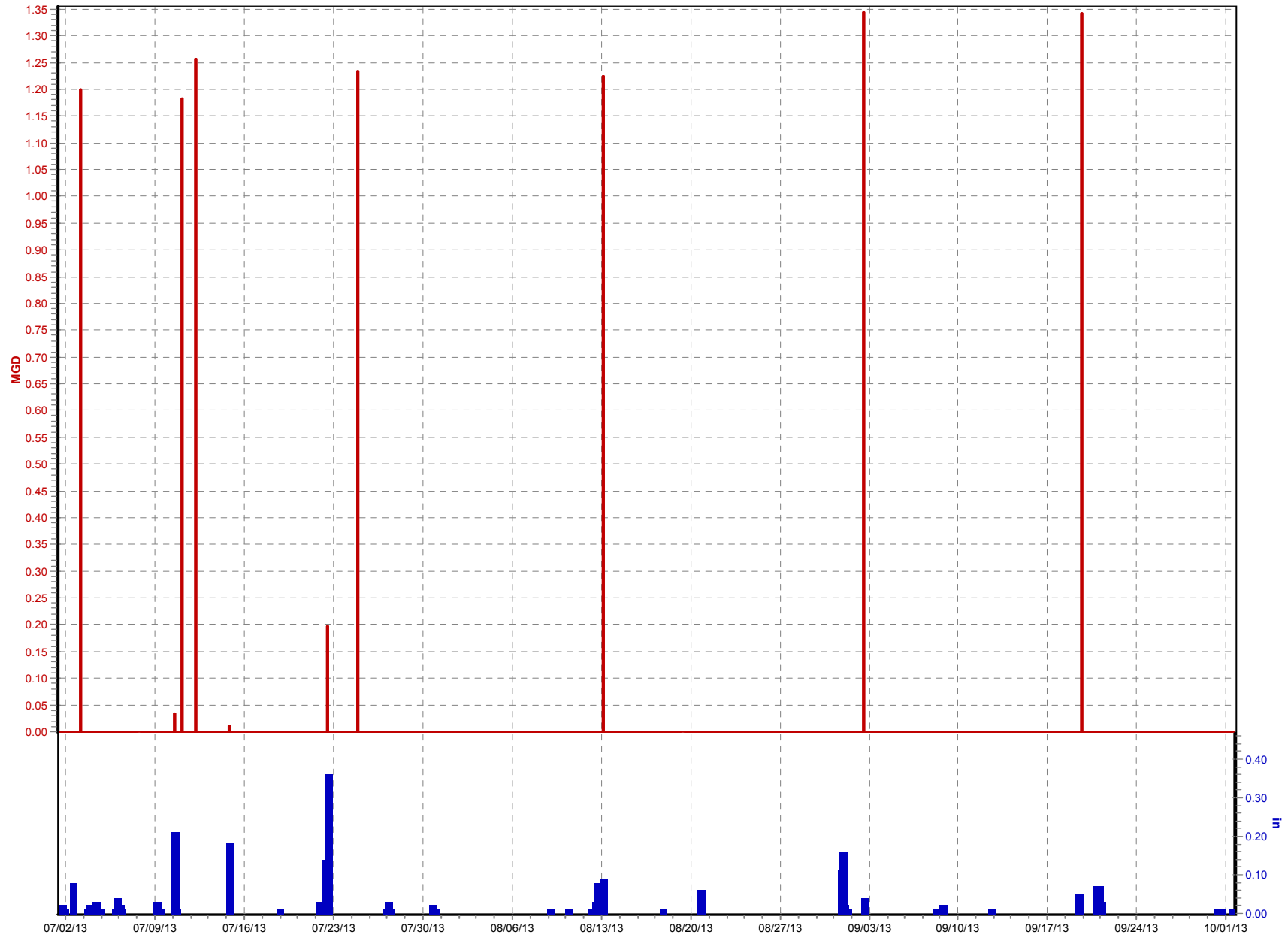
CSO182 Shelby_Burnett St (07/01/13 to 10/01/13)

☒ Final Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



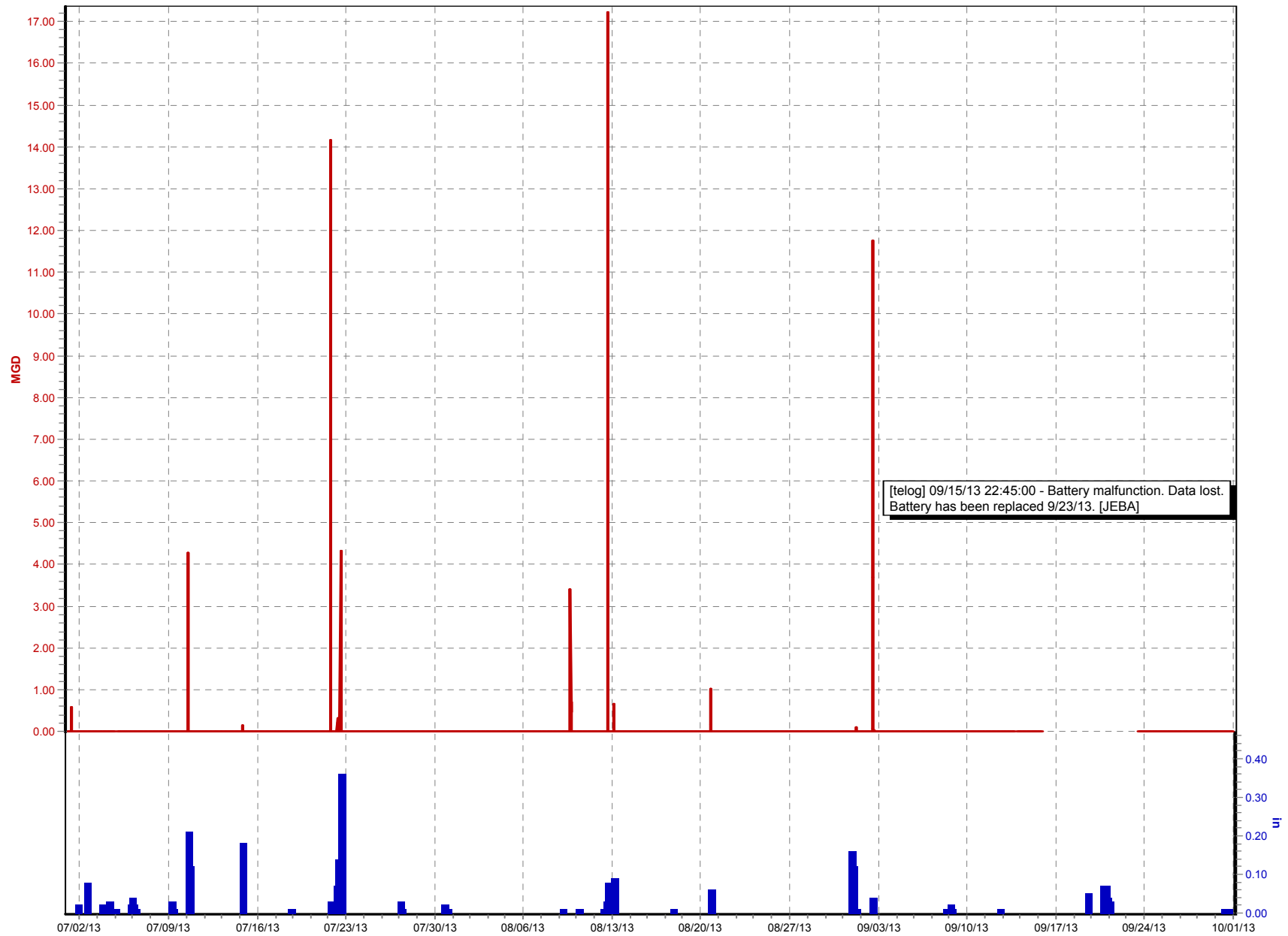
CSO183 Keswick Blvd (07/01/13 to 10/01/13)

☒ Final Flow (counts) ☒ TR05_Beargrass PS.Rain (in)



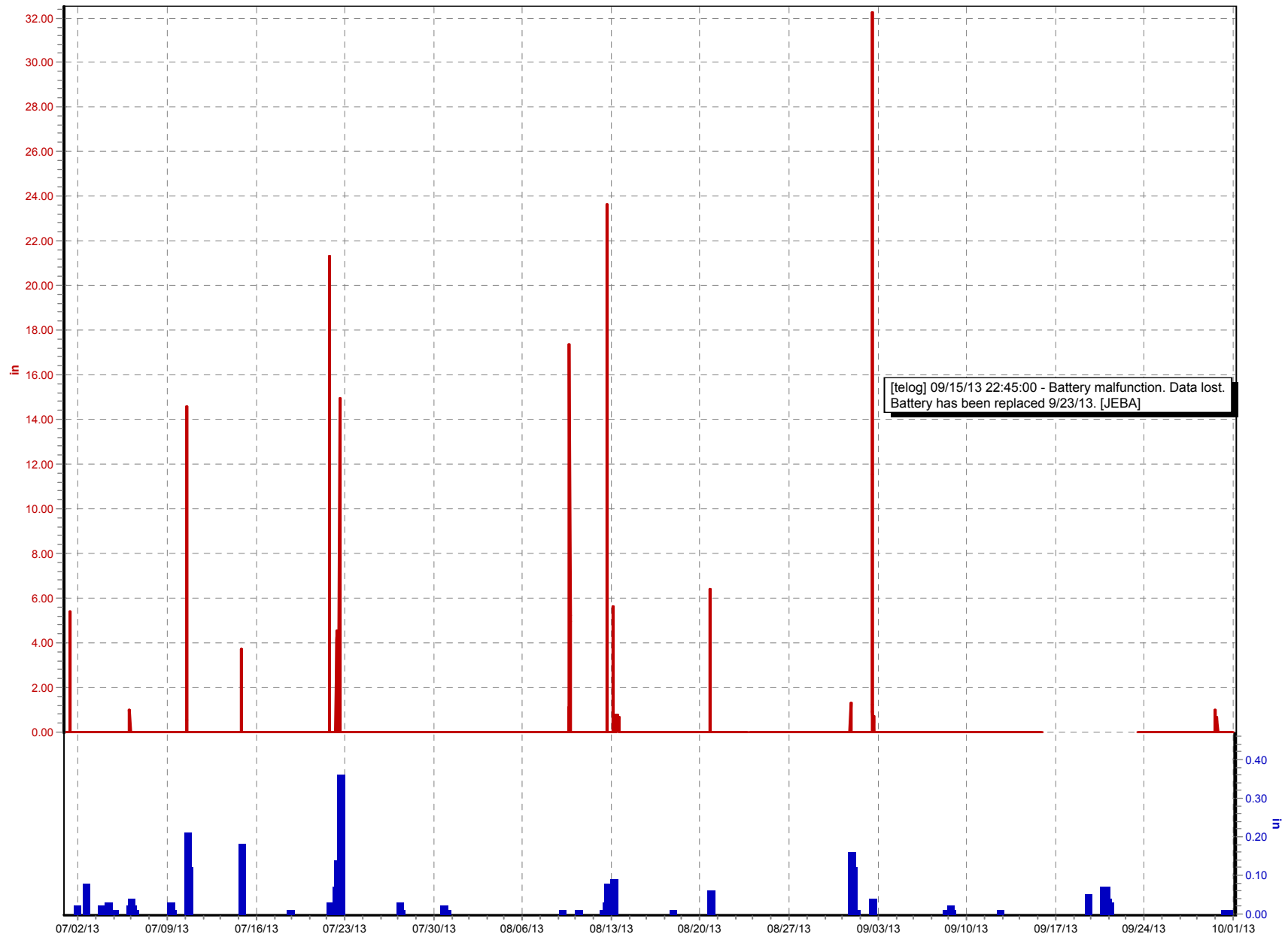
CSO184(07/01/13 to 10/01/13)

☒ 1Flow-CSO184 (MGD) ☒ TR05_Beargrass PS.Rain (in)



CSO185 S Shelby St (07/01/13 to 10/01/13)

☒ 2Level-CSO185 (in) ☒ TR05_Beargrass PS.Rain (in)



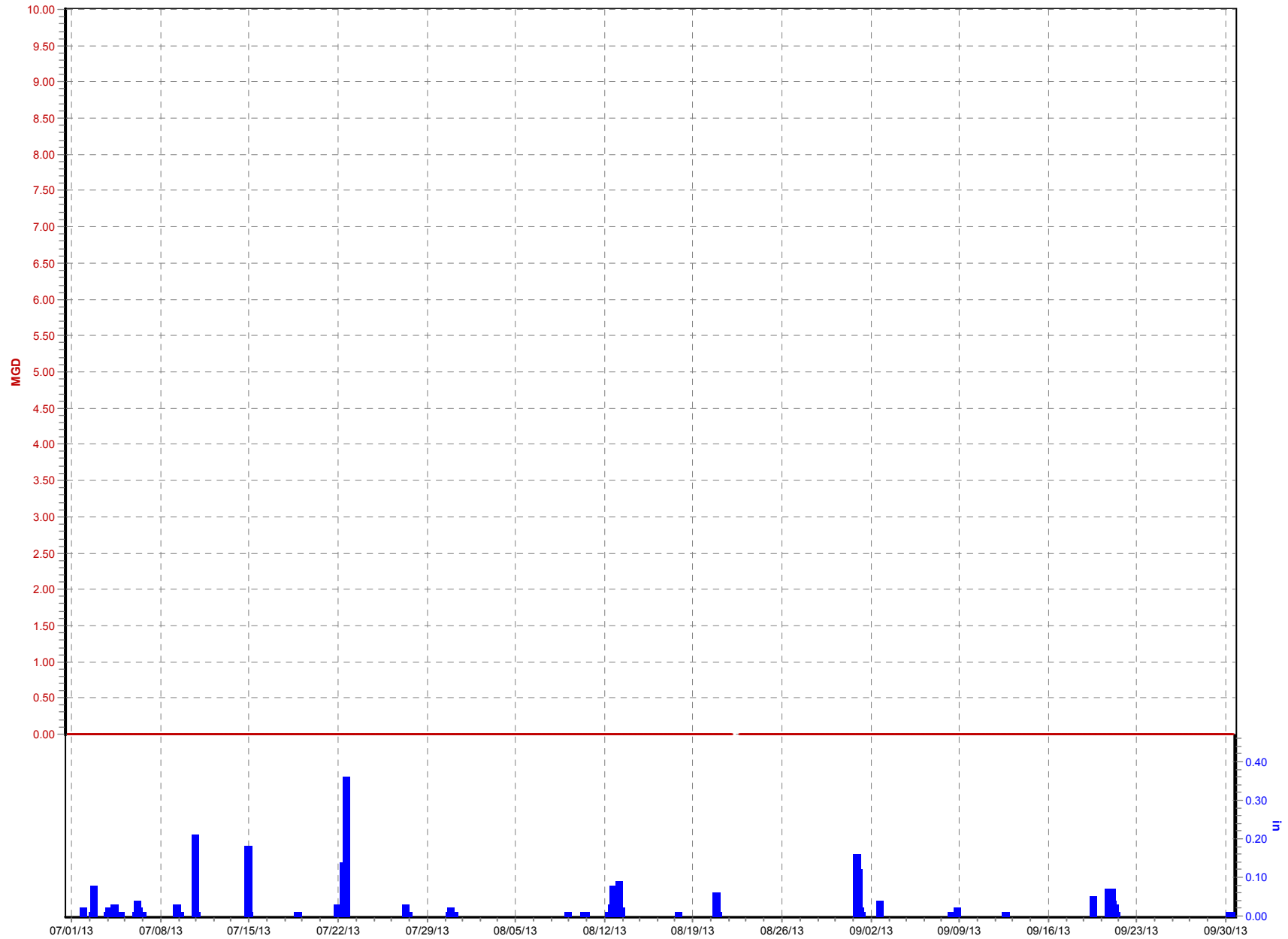
CSO186 Logan St (07/01/13 to 10/01/13)

☒ Level (in) ☒ TR05_Beargrass PS.Rain (in)



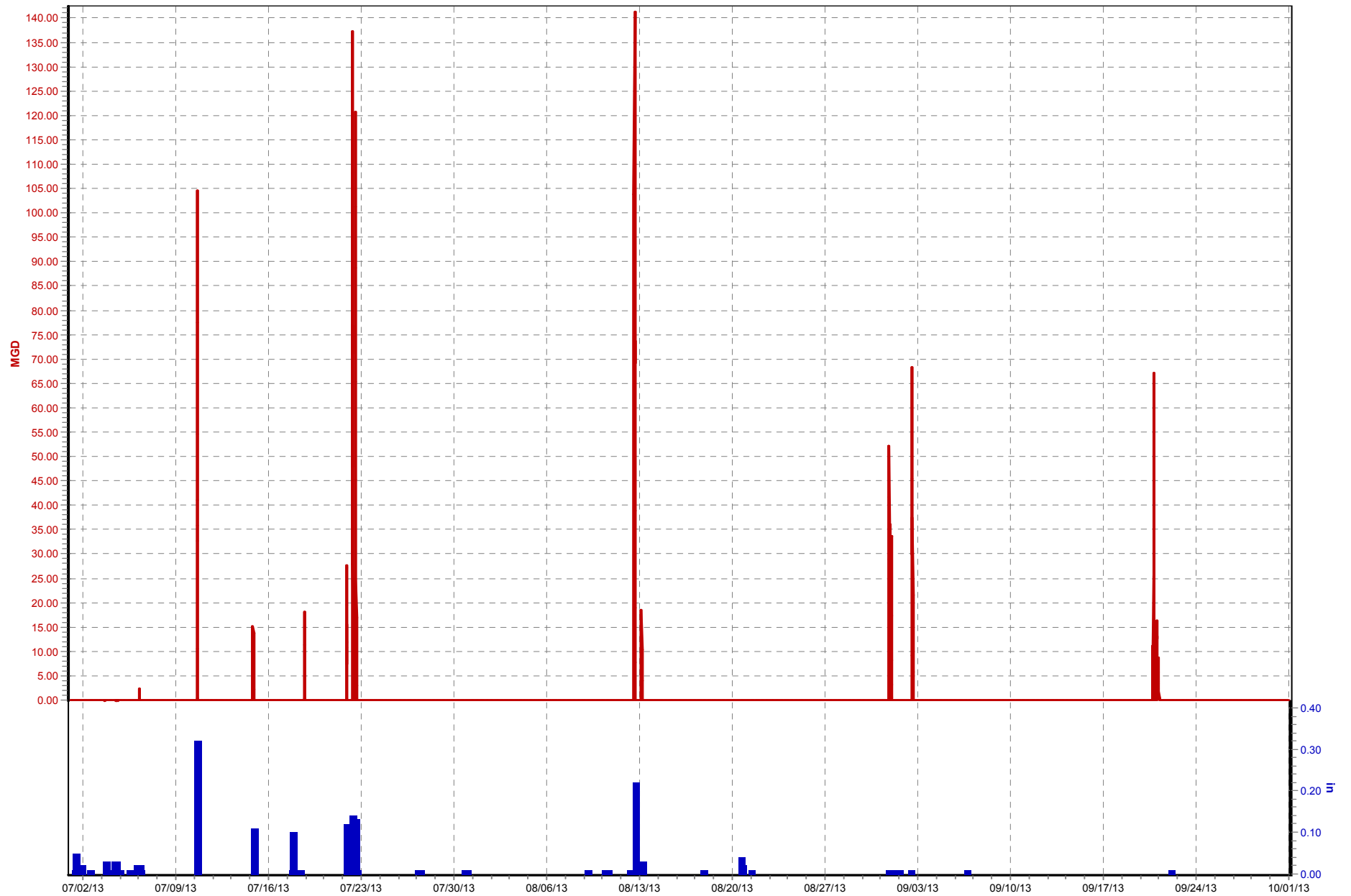
CSO188 Clay St (06/30/13 to 09/30/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



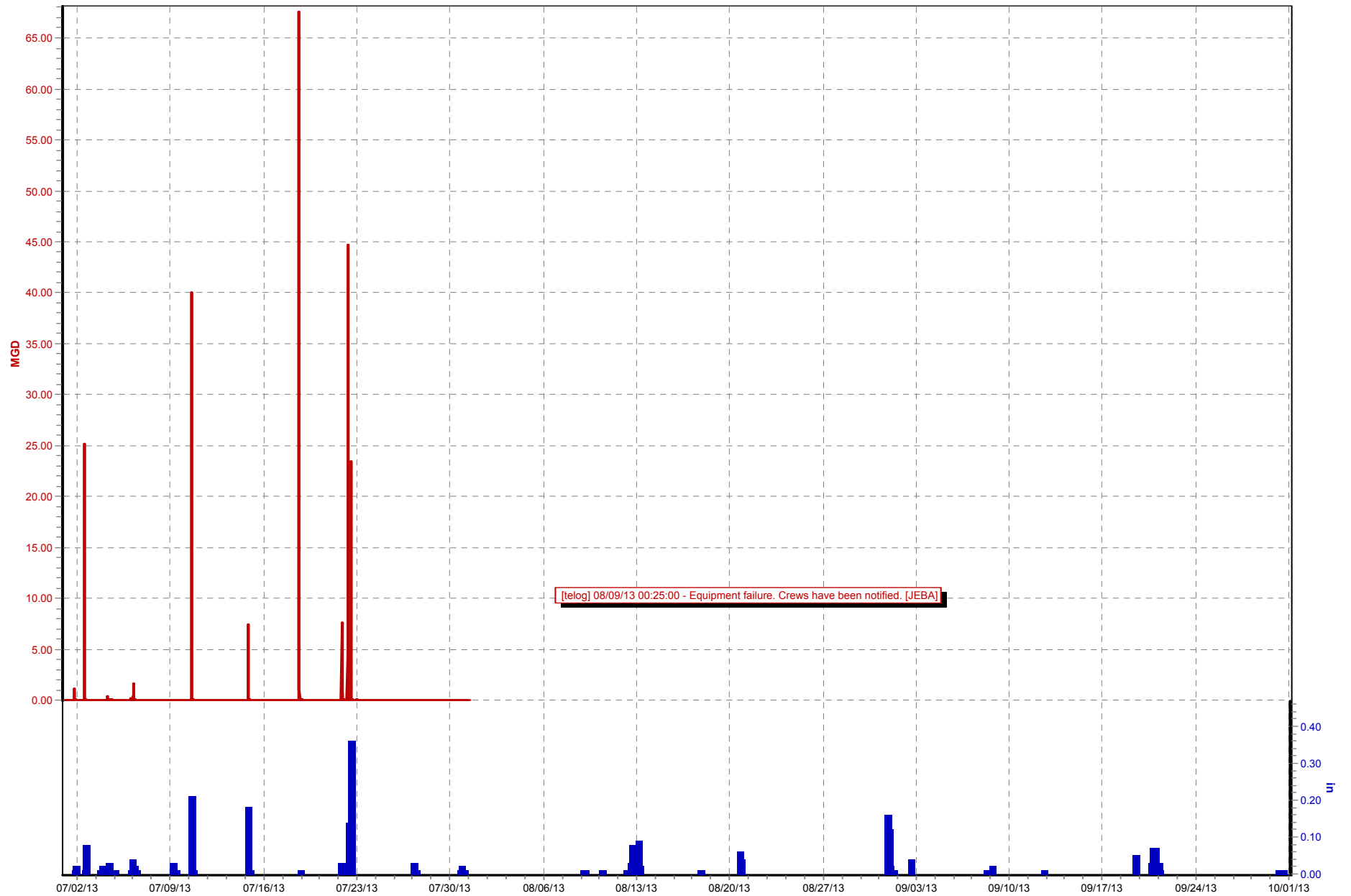
CSO189 Shawnee PK PS (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR04_Morris Forman WQTC.Rain (in)



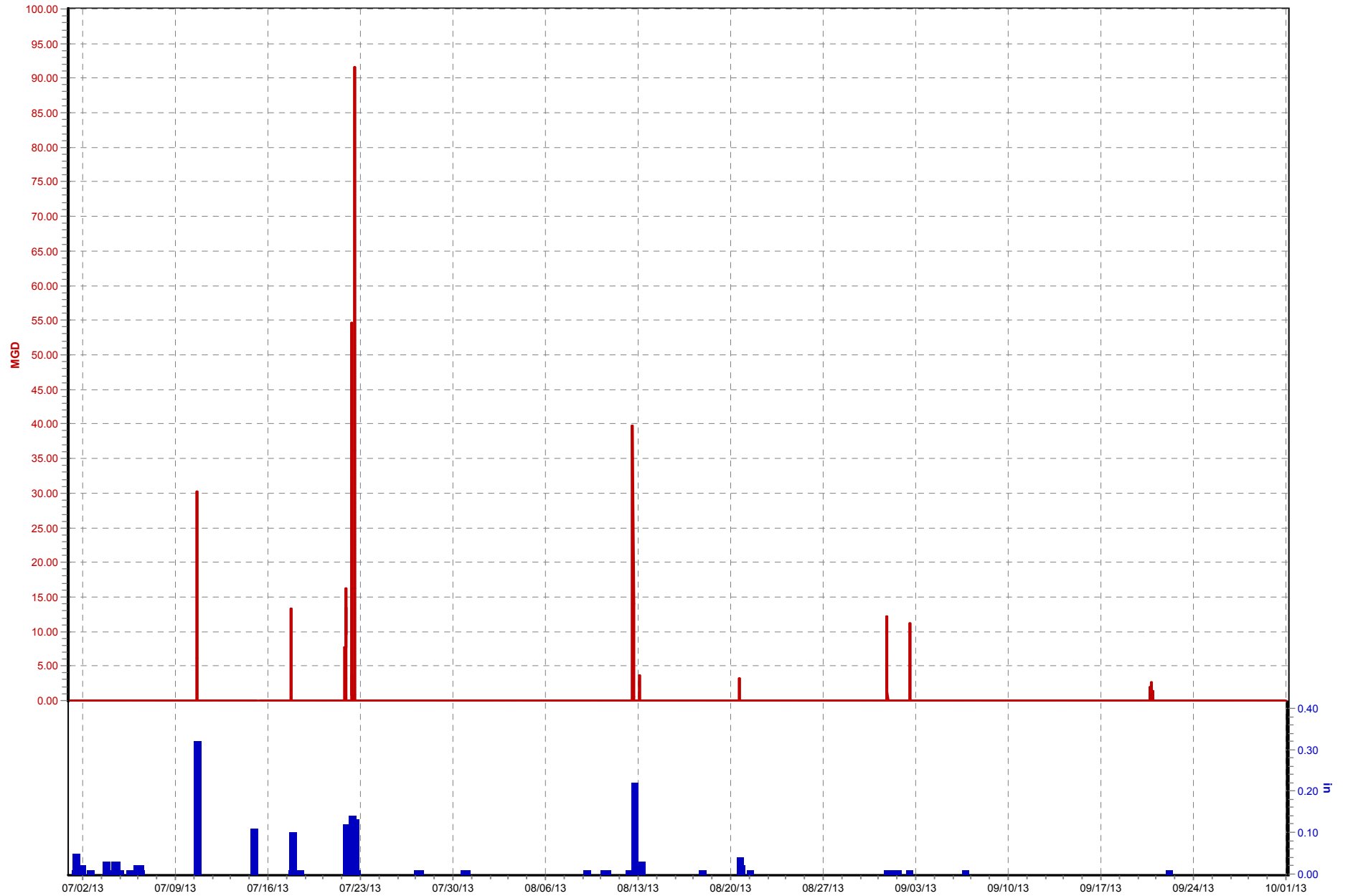
CSO190 NWest Pkwy (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



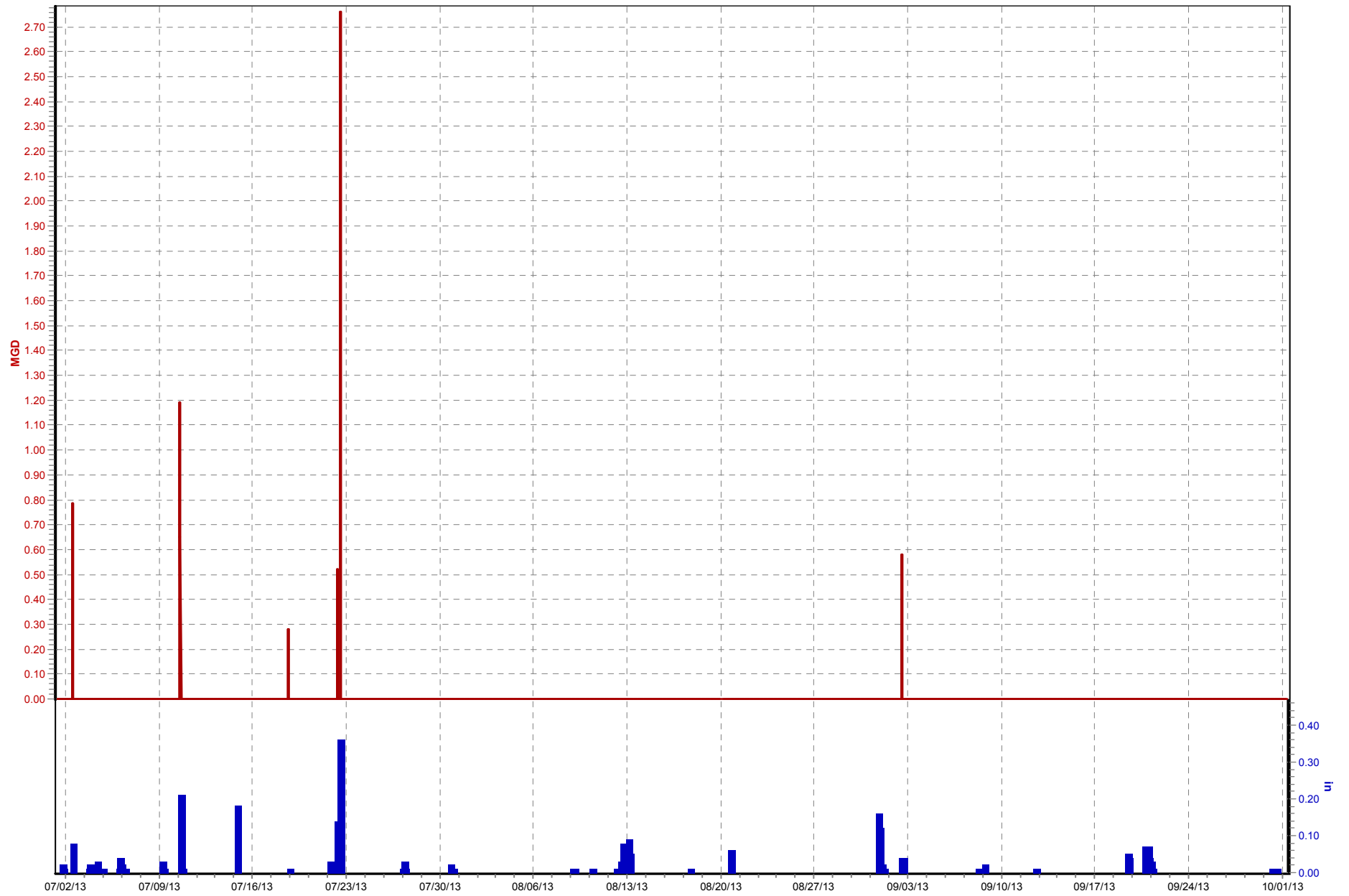
CSO191 Bells Lane PS (07/01/13 to 10/01/13)

☒ Flow (MGD)
 ☒ TR04_Morris Forman WQTC.Rain (in)



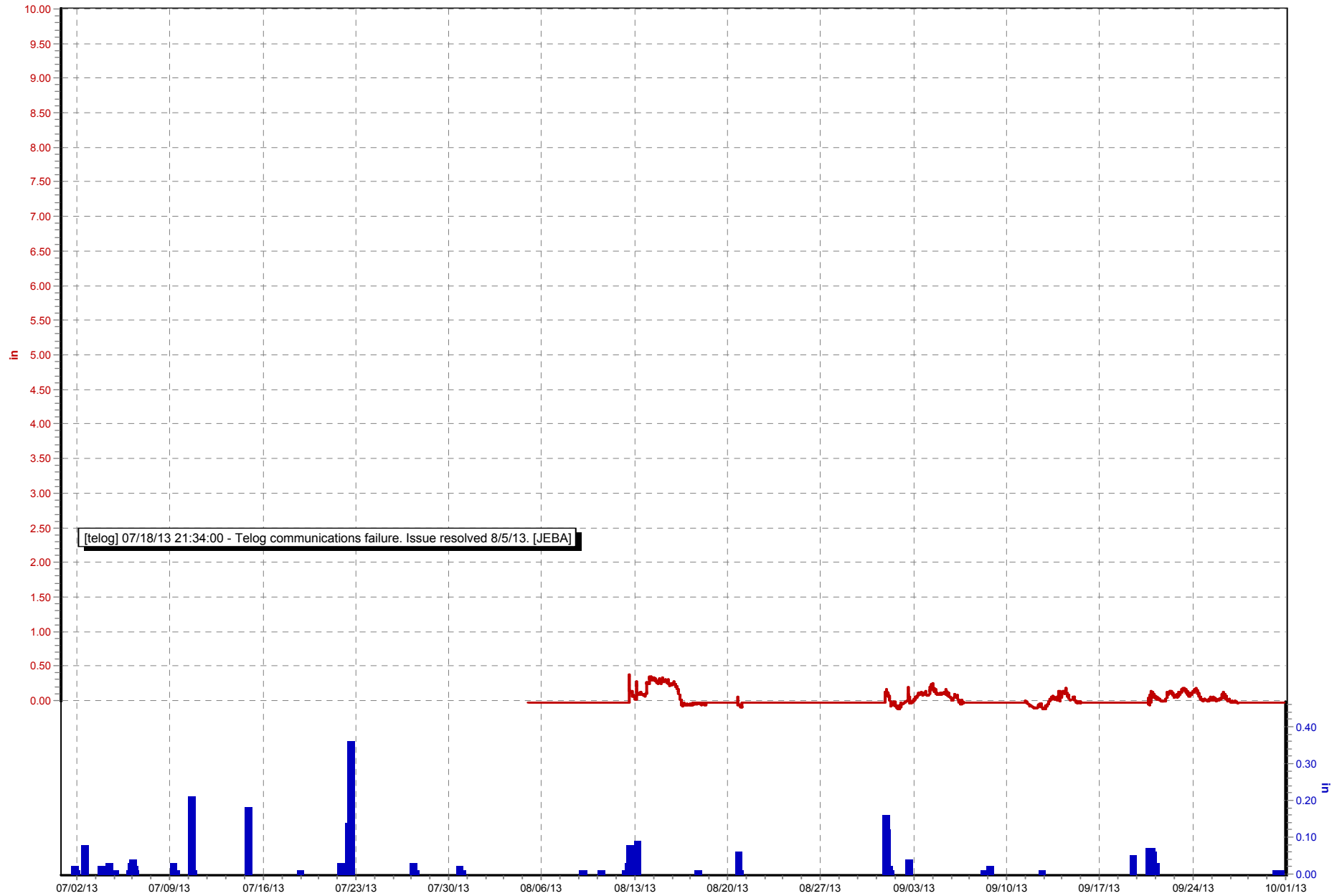
CSO193 6th and KY (07/01/13 to 10/01/13)

☒ Final Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



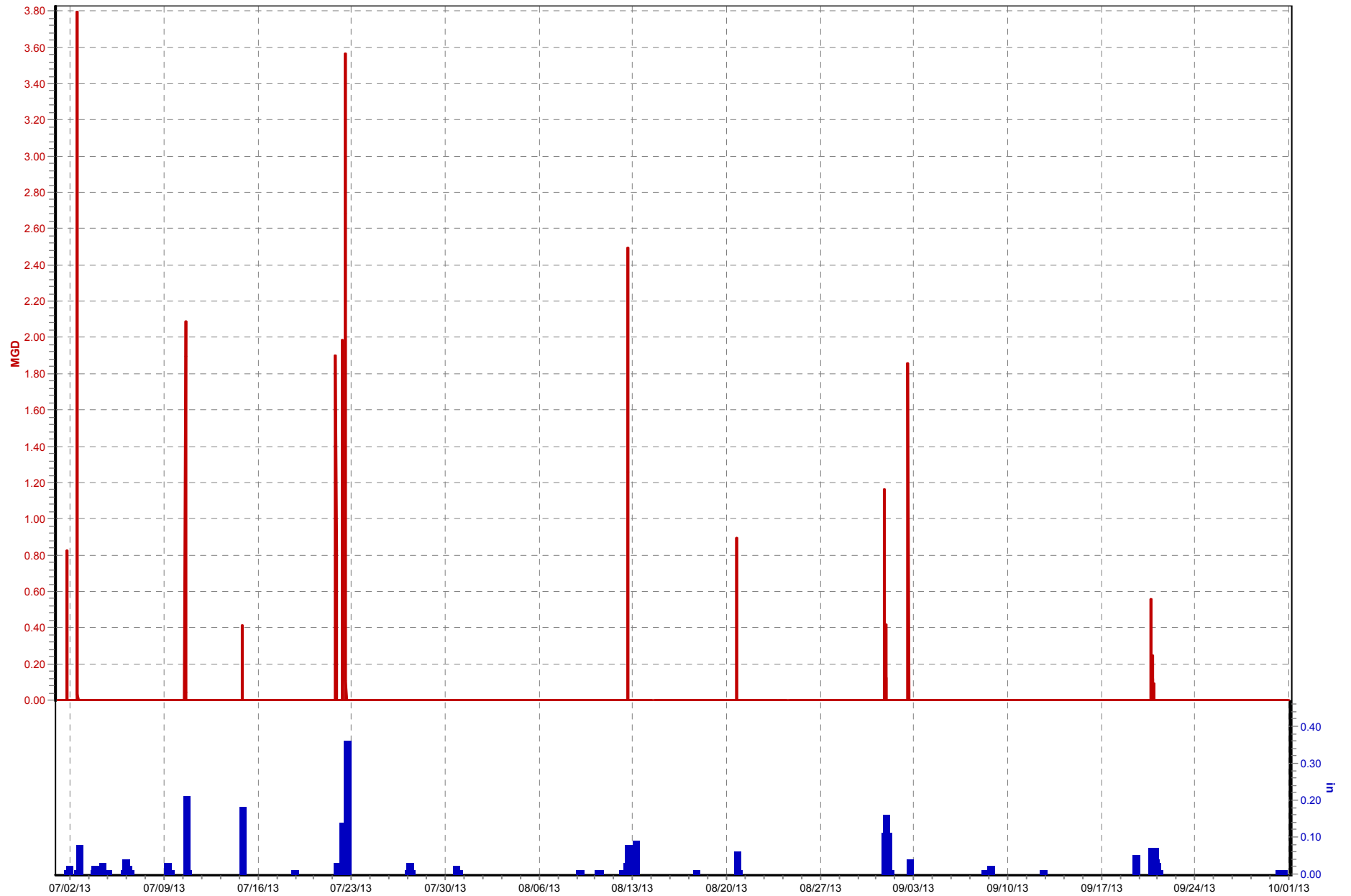
CSO195 Upstream of Dam (06/30/13 to 09/30/13)

☒ CSO Level (in) ☒ TR05_Beargrass PS.Rain (in)



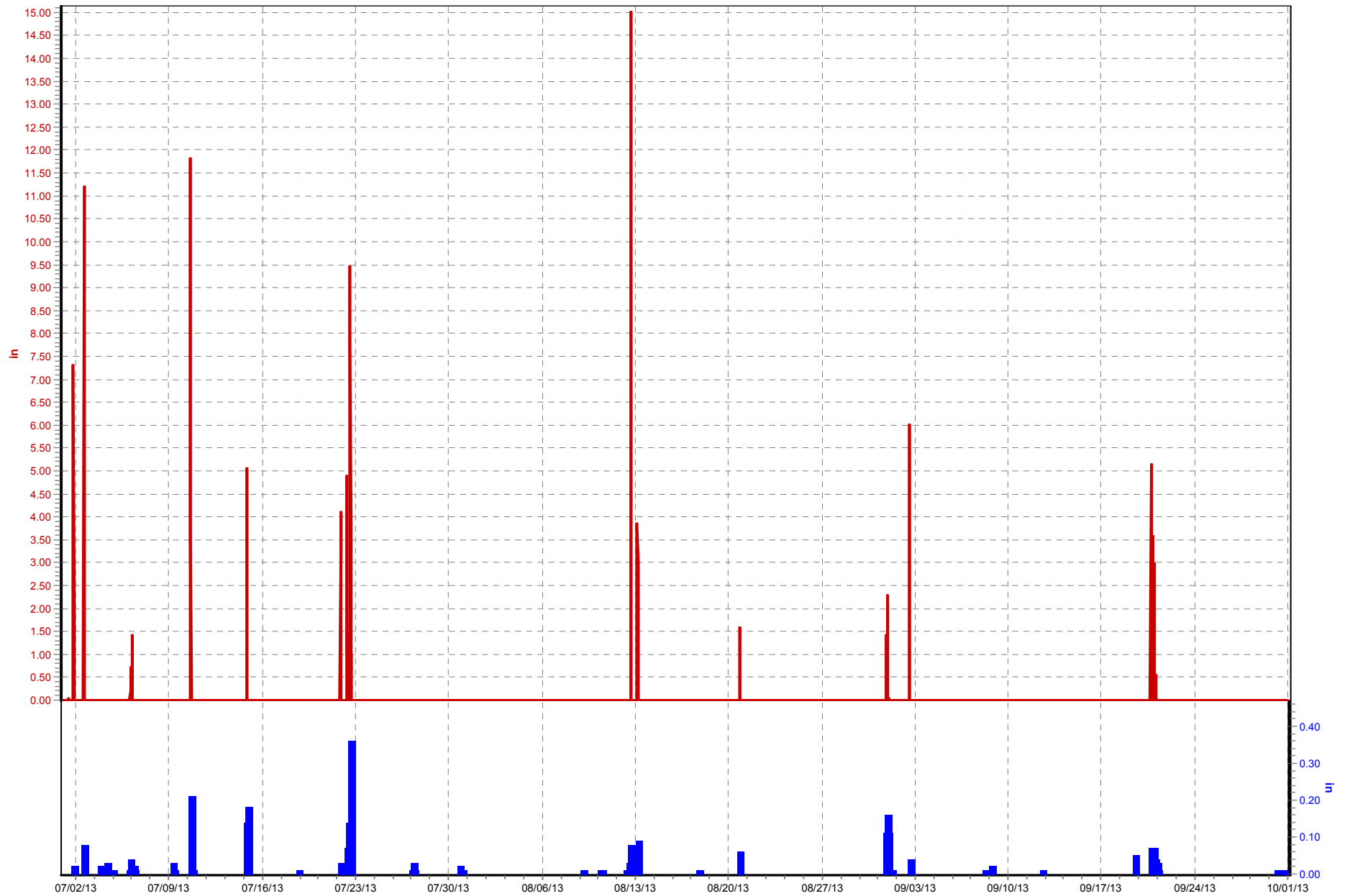
CSO196 (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



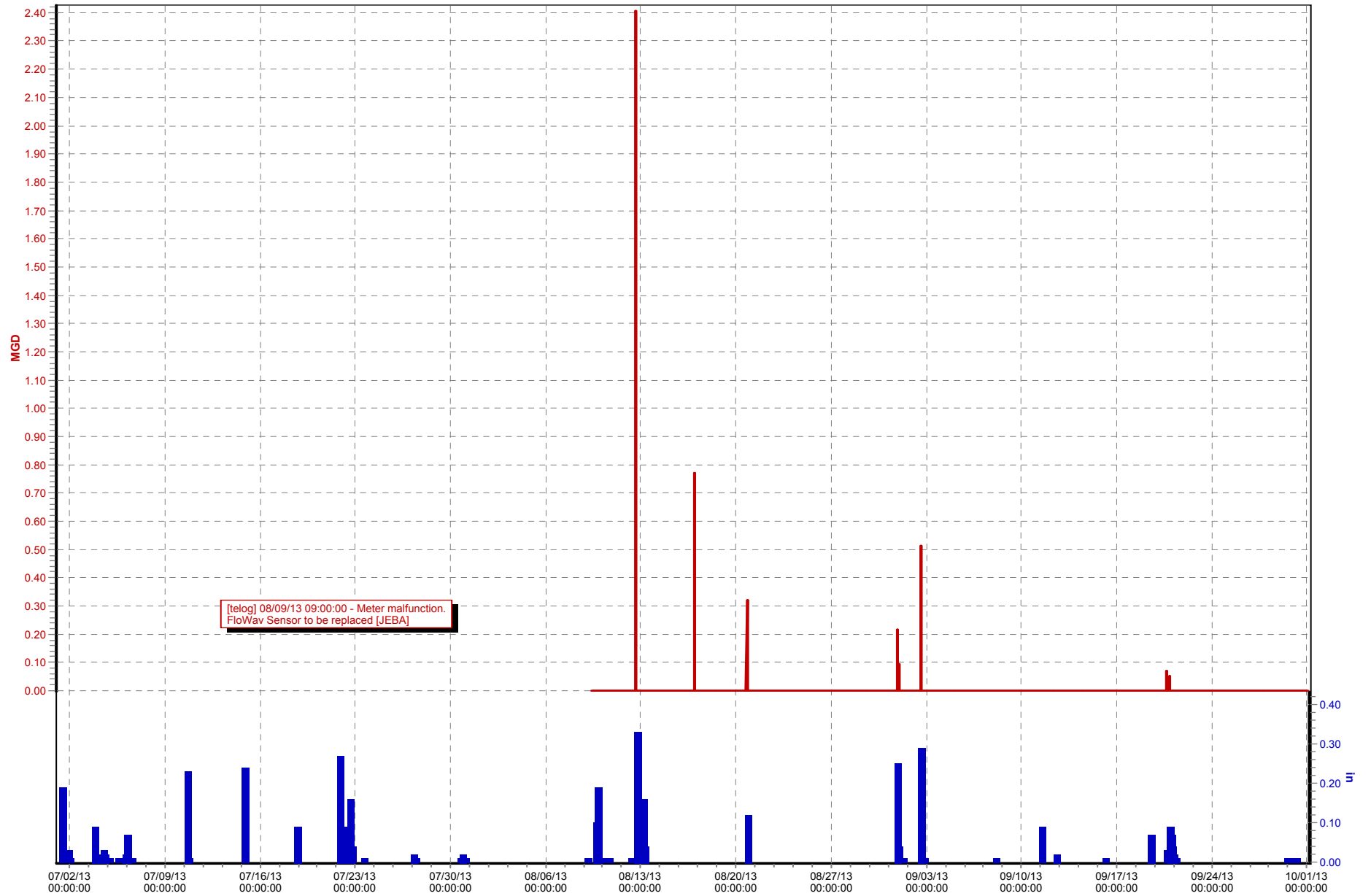
CSO197 S 3rd St (07/01/13 to 10/01/13)

☒ Overflow Level (in) ☒ TR05_Beargrass PS.Rain (in)



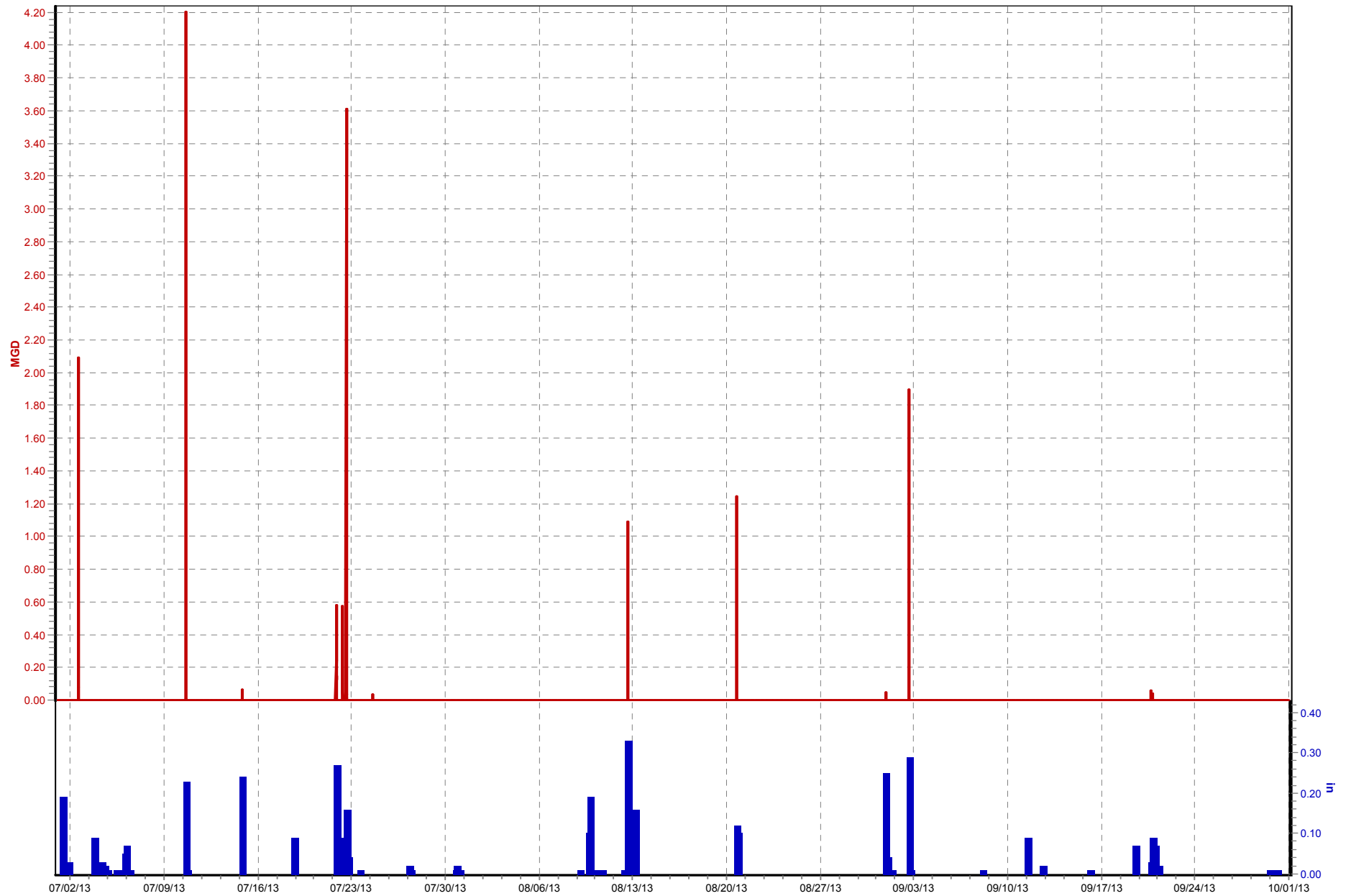
CSO199 S 3rd St (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR12_Nightingale PS.Rain (in)



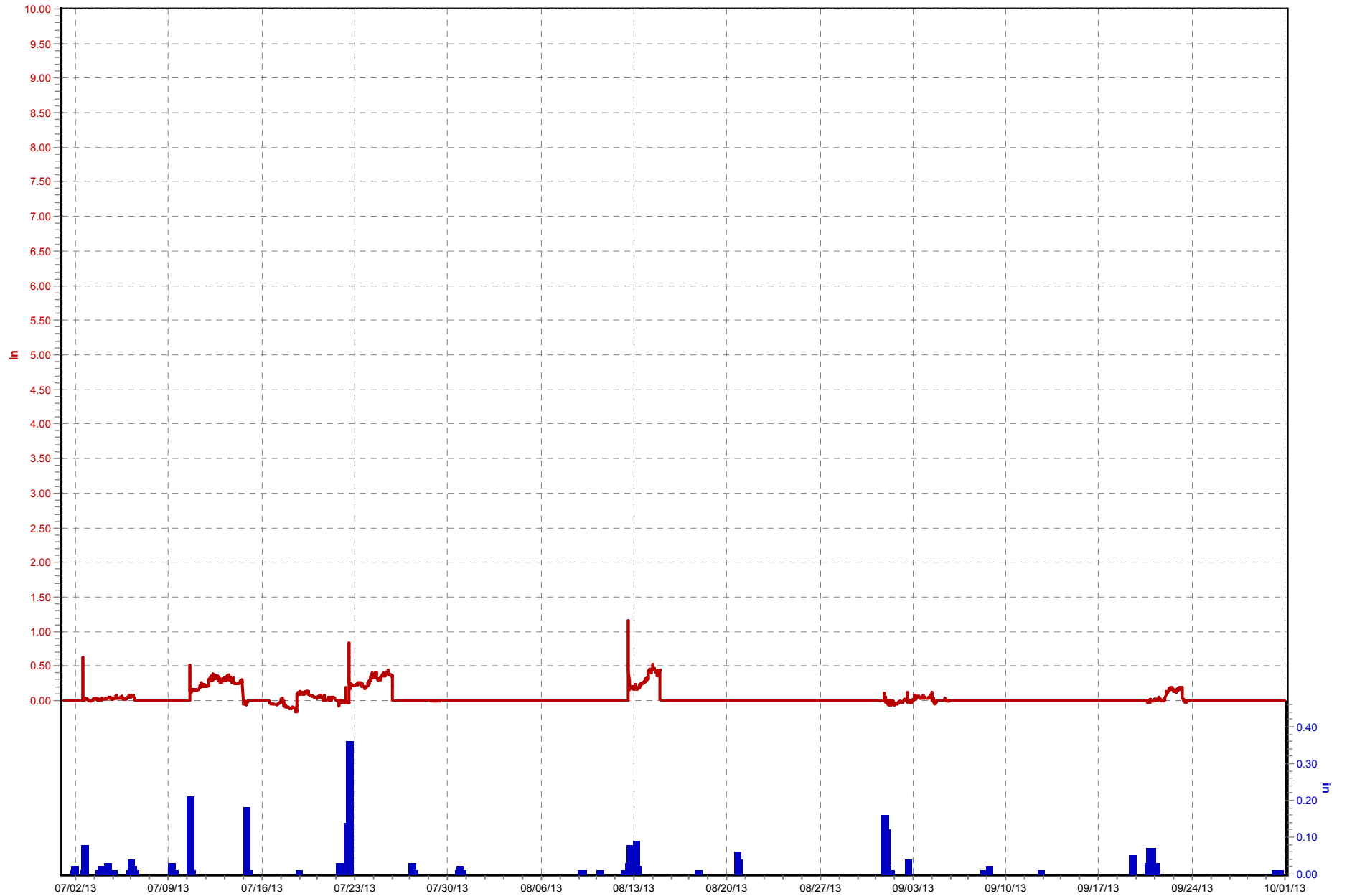
CSO200 S 3rd St (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR12_Nightingale PS.Rain (in)



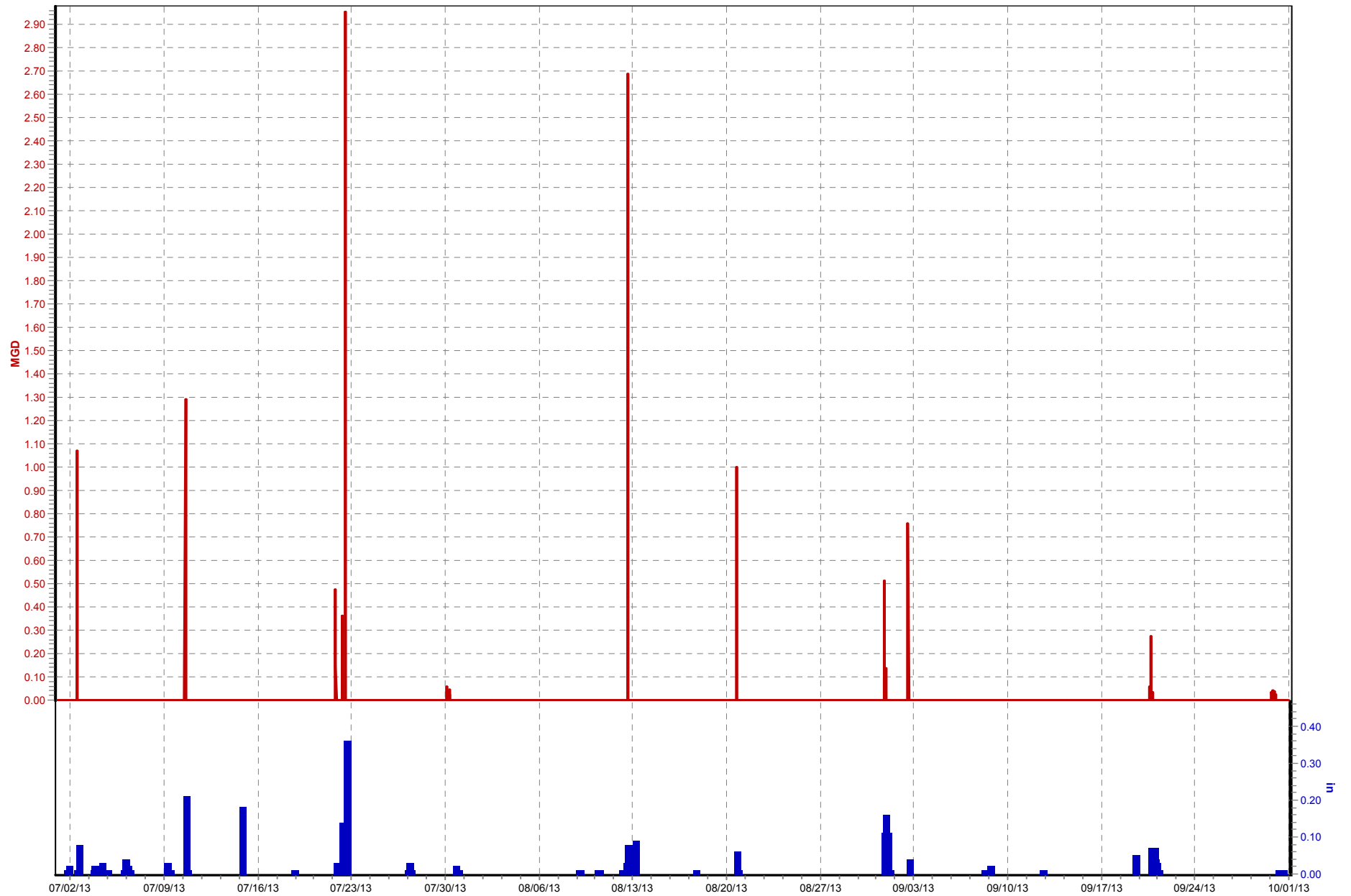
CSO201 (07/01/13 to 10/01/13)

☒ CSO Level (in) ☒ TR05_Beargrass PS.Rain (in)



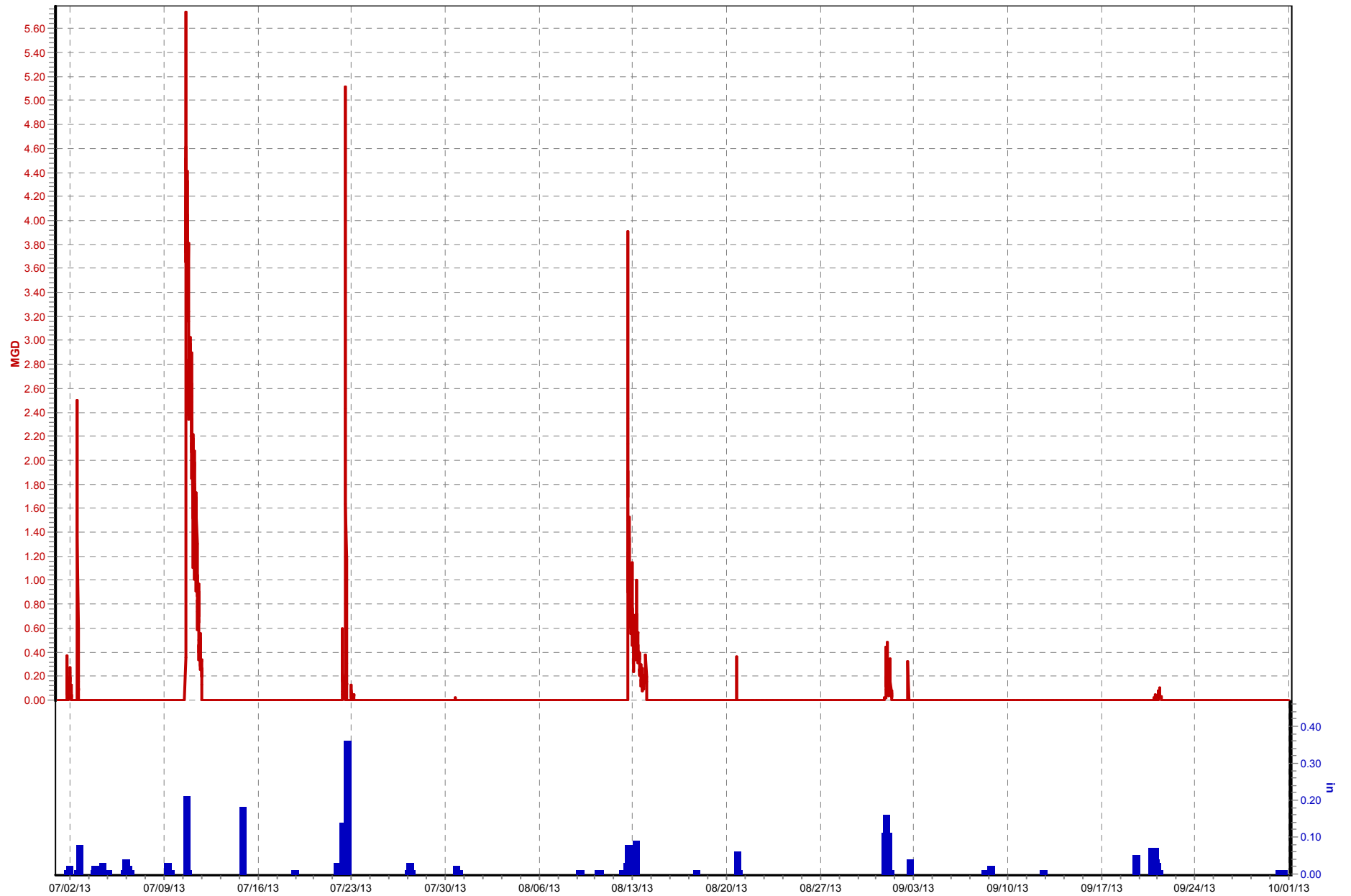
CSO202 W Ormsby Ave (07/01/13 to 10/01/13)

☒ Final Flow (MGD)
 ☒ TR05_Beargrass PS.Rain (in)



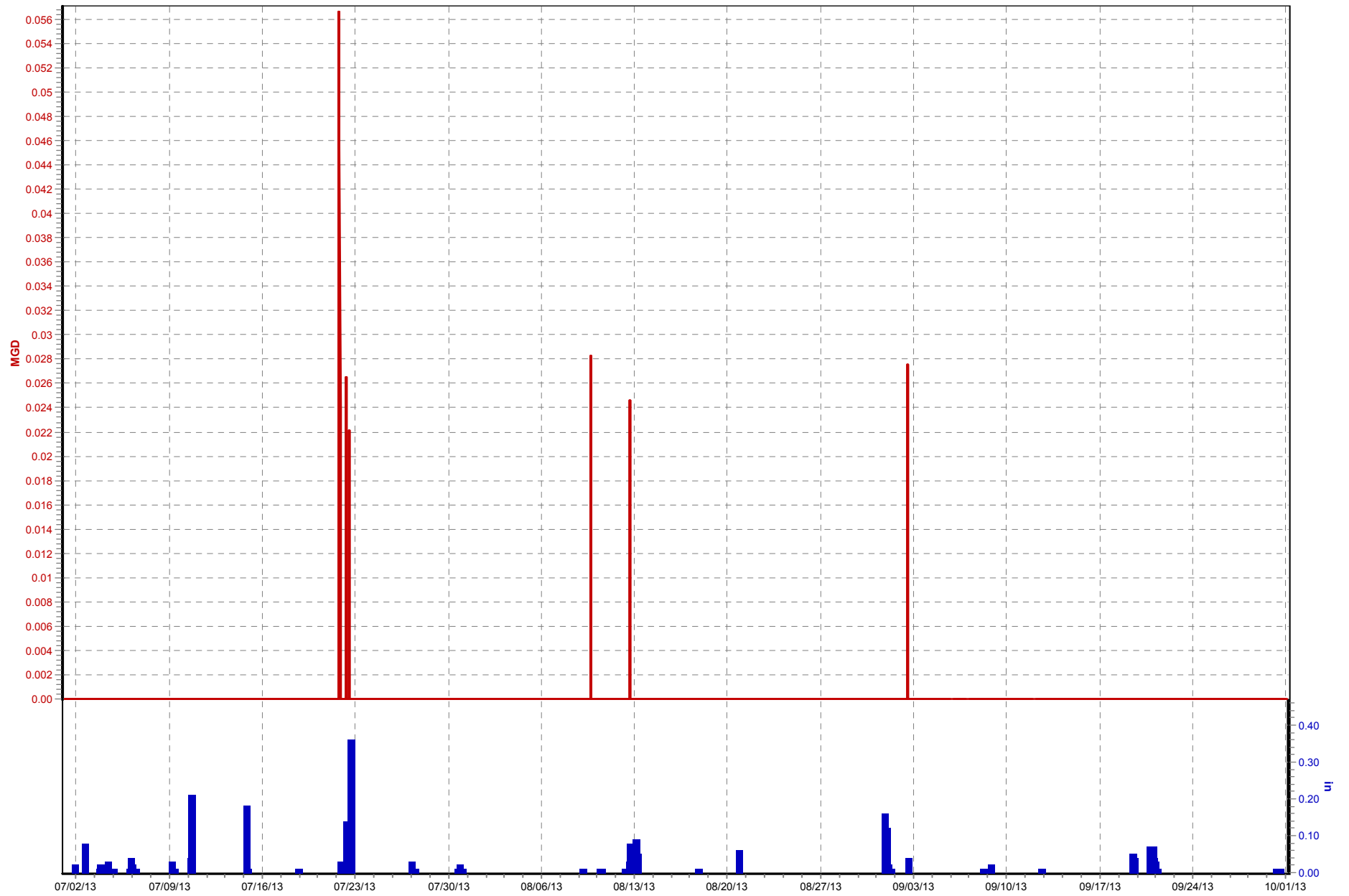
CSO203 S 4th St (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



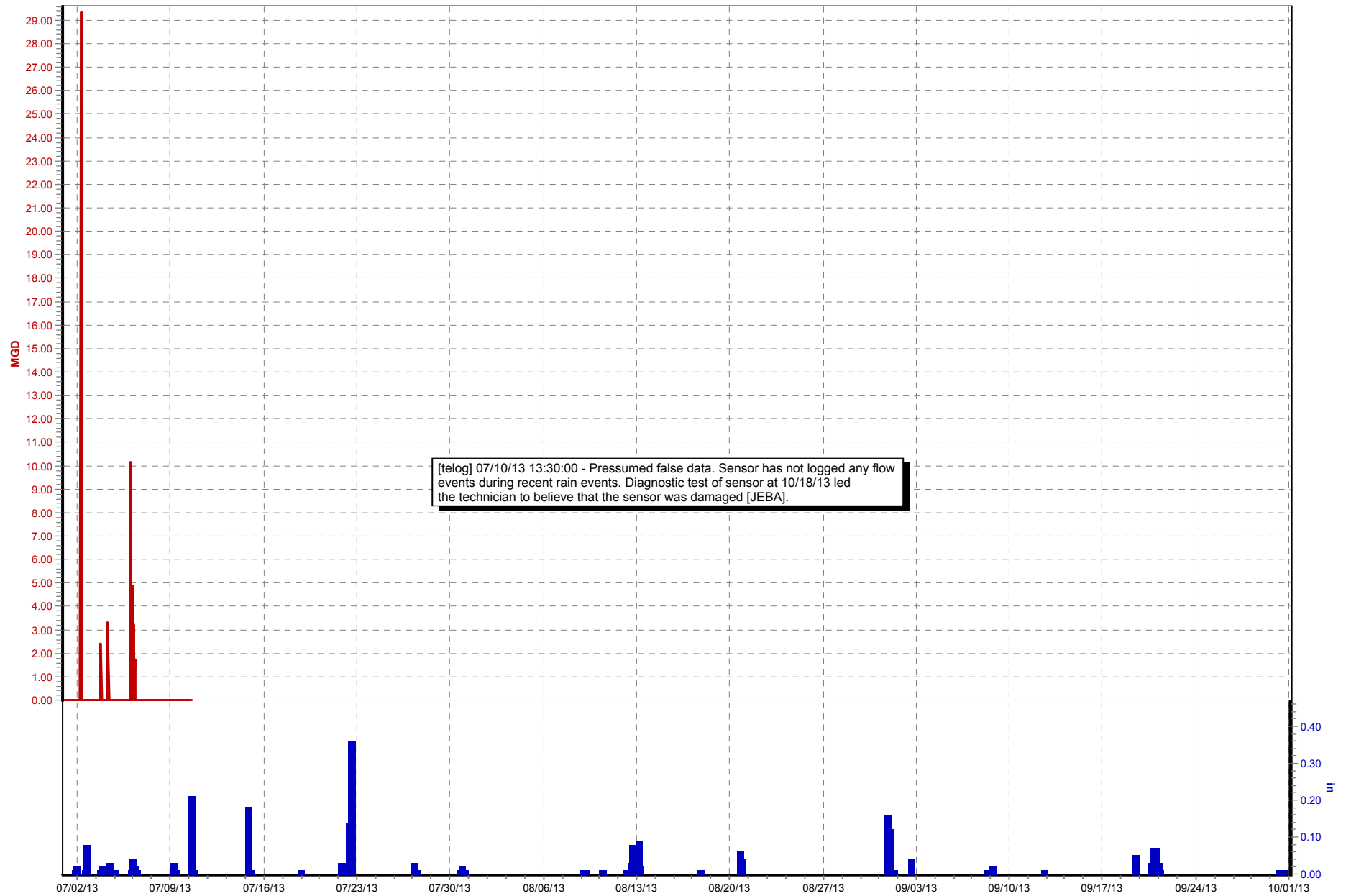
CSO205 Morgan St (07/01/13 to 10/01/13)

☒ Final Flow (MGD)
 ☒ TR05_Beargrass PS.Rain (in)



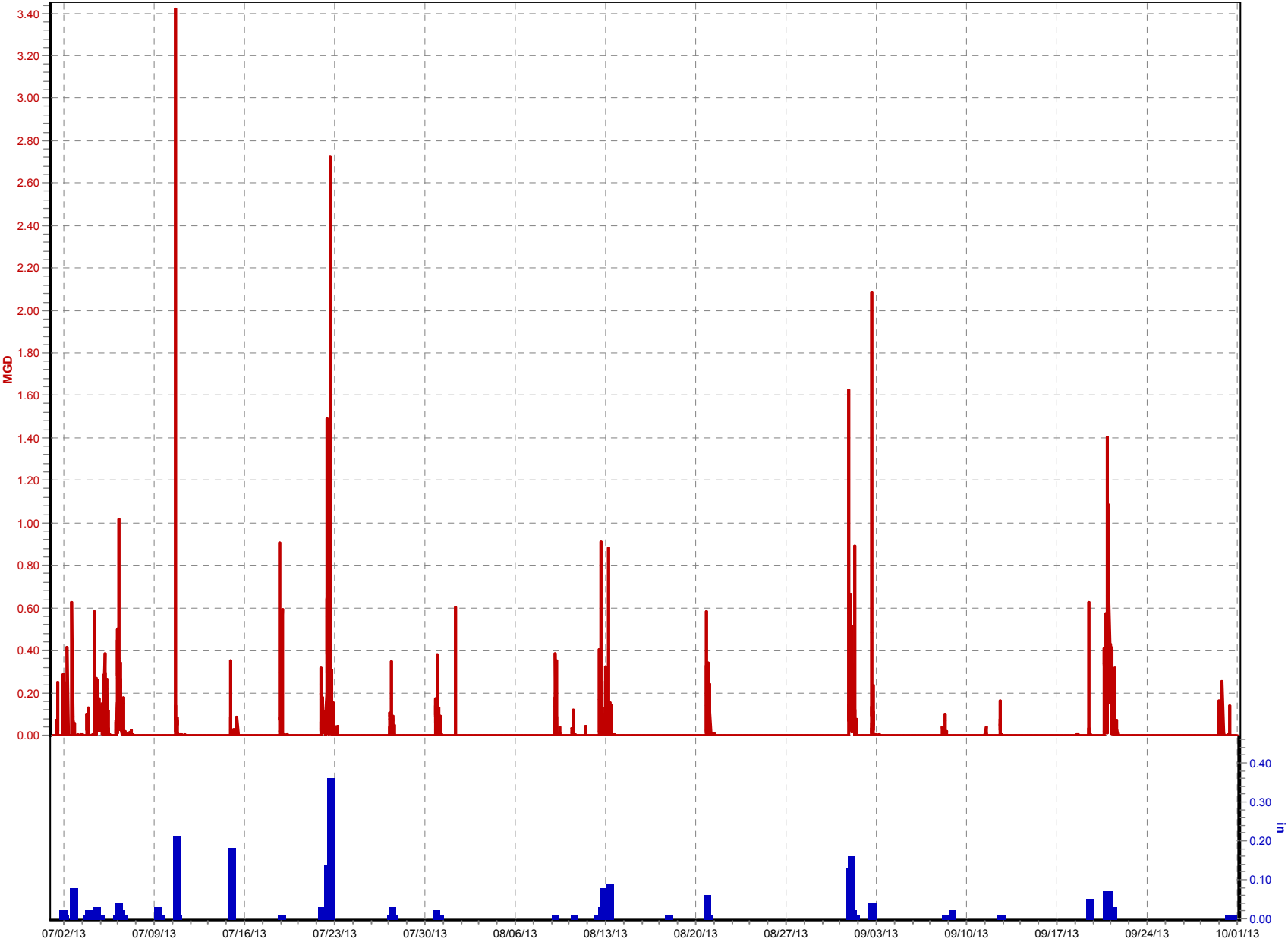
CSO206 Cherokee Park_String St (07/01/13 to 10/01/13)

☒ Final Flow (MGD) ☒ TR05_Beargrass PS.Rain (in)



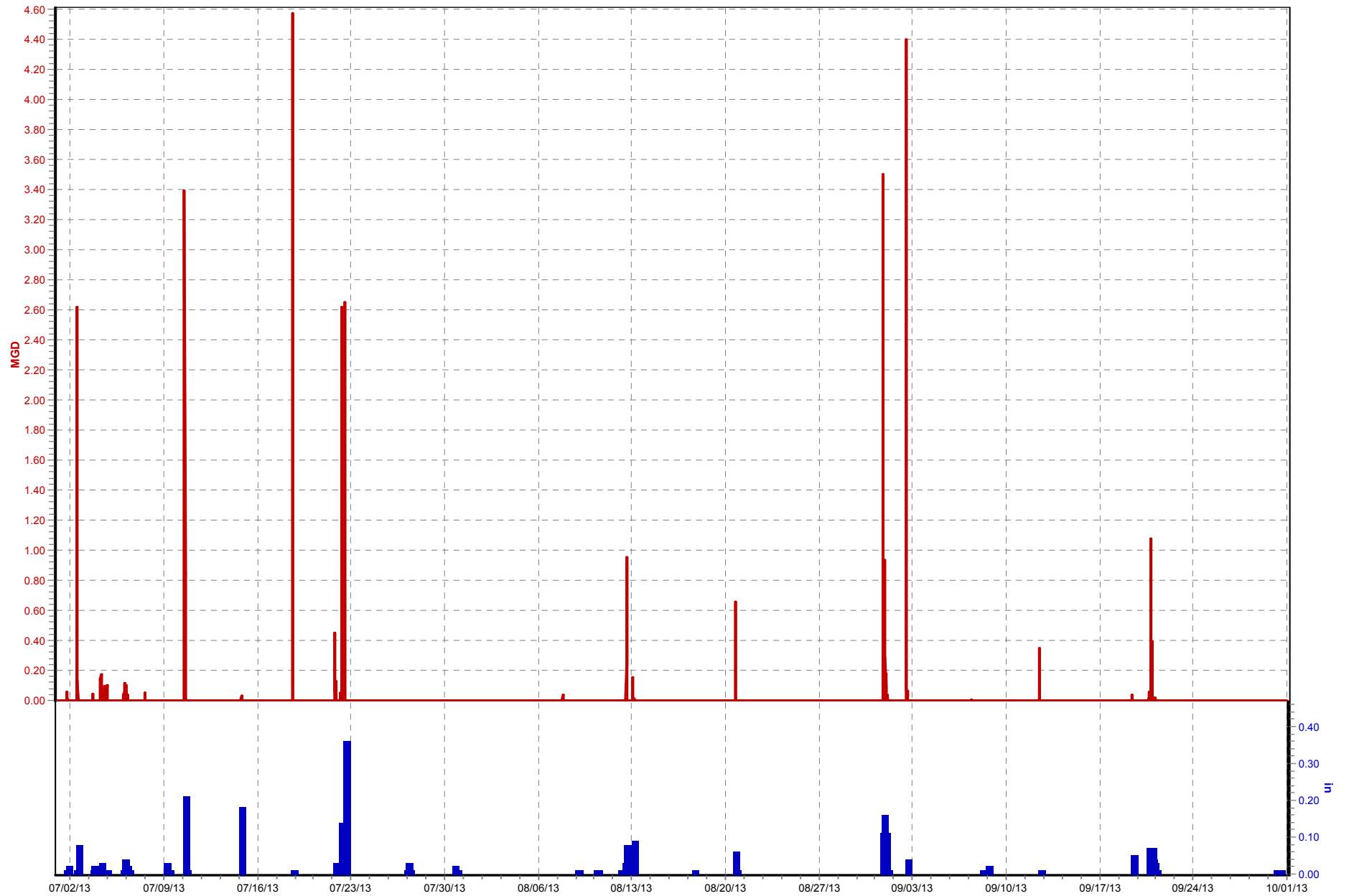
CSO207 W Jefferson St_2nd St (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



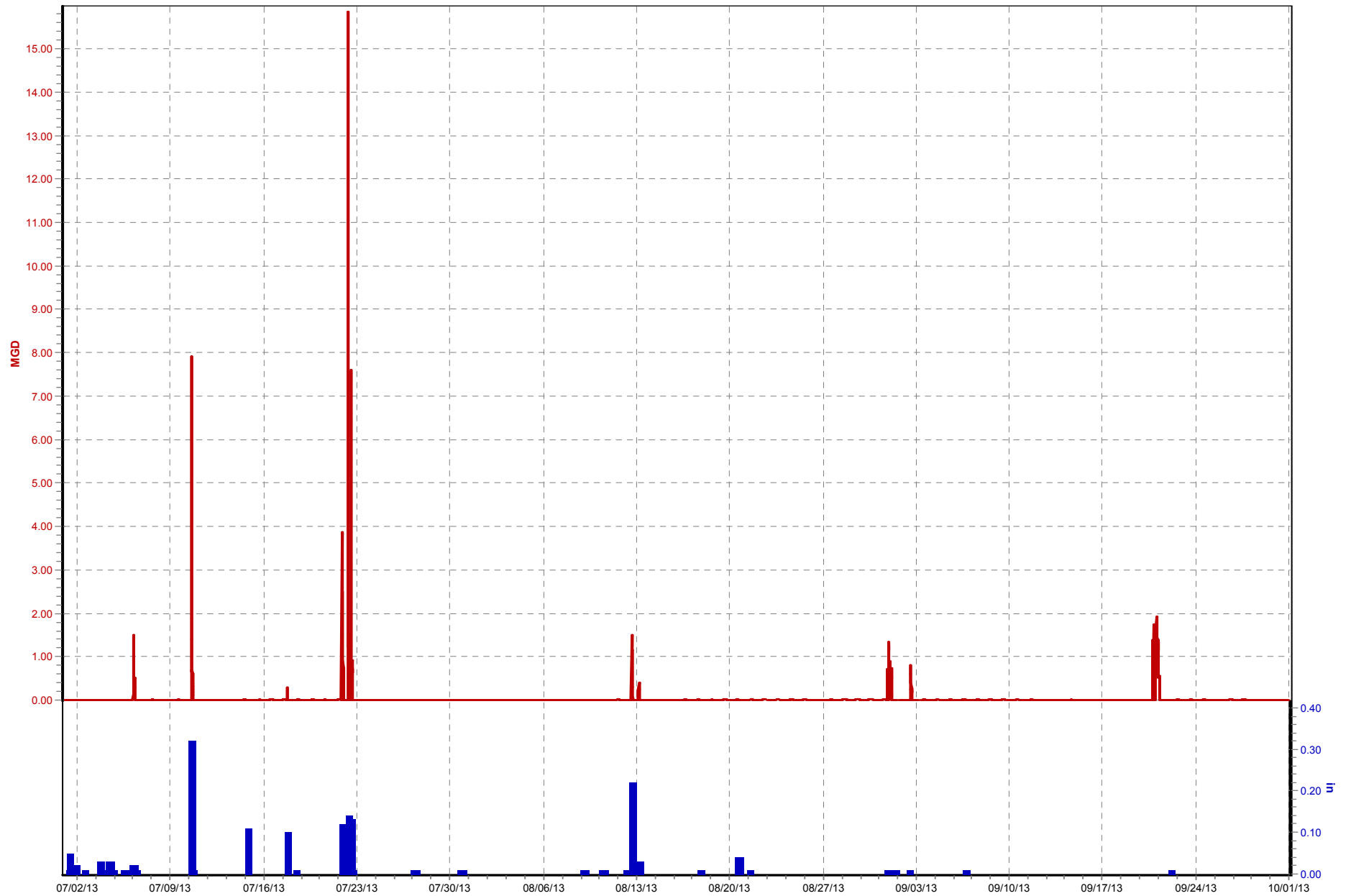
CSO208 W Jefferson St_12th St (07/01/13 to 10/01/13)

☒ Flow 1 (MGD) ☒ TR05_Beargrass PS.Rain (in)



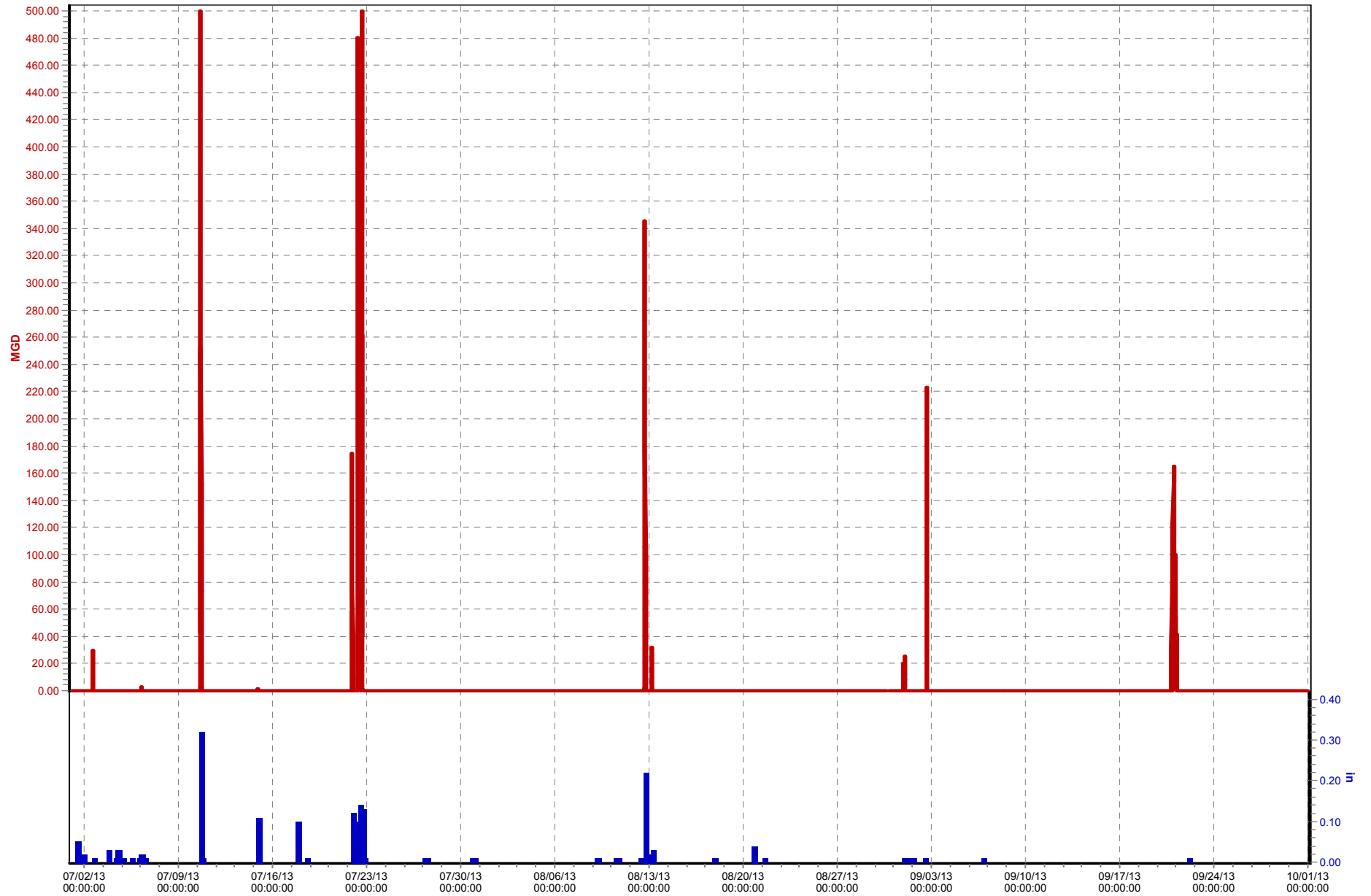
CSO210 Wayne Supply (07/01/13 to 10/01/13)

☒ CSO210 Flow (MGD) ☒ TR04_Morris Forman WQTC.Rain (in)



CSO211 Whayne Supply (07/01/13 to 10/01/13)

☒ Flow (MGD) ☒ TR04_Morris Forman WQTC.Rain (in)



Appendix C – Acronyms

Appendix C - Acronyms for Project WIN Quarterly Report

AAM	Advanced Asset Management
AAOV	Annual Average Overflow Volume
ADAPS	Automated Data Processing System
BGC	Beargrass Creek
BMP	Best Management Practices
CCP	Composite Correction Plan
CD	Consent Decree
CMF	Central Maintenance Facility
CMMS	Computerized Maintenance Management System
CMOM	Capacity Management Operations and Maintenance
CPE	Comprehensive Performance Evaluations
CSO	Combined Sewer Overflow
CSS	Combined Sewer System
CSSA	Continuing Sewer System Assessment
DAP	Discharge Abatement Plan (DAP)
DMR	Discharge Monitoring Report
eB	Enterprise Bridge (Spescom scanning software for document management)
EMC	Event Mean Concentration
EPA	Environmental Protection Agency
ERP	Enforcement Response Plan
FM	Force Main
FOG	Fats, Oil & Grease
FPS	Flood Pump Station
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
MEB	Main Equipment Building

Appendix C - Acronyms for Project WIN Quarterly Report

MFWTP	Morris Forman Wastewater Treatment Plant
MG	Million Gallons
MGD	Million Gallons Per Day
MLK	Martin Luther King
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
PP	Pumping Package
PS	Pump Station
PSC	Property Service Connection
RDII	Rainfall-Derived Infiltration and Inflow
RS	Regulatory Services
RTC	Real Time Control
SCADA	Supervisory Control And Data Acquisition
SCAP	System Capacity Assurance Plan
SIU	Significant Industrial User
SOP	Standard Operating Procedure
SORP	Sewer Overflow Response Protocol
SSDP	Sanitary Sewer Discharge Plan
SSES	Sanitary Sewer Evaluation Study
SSO	Sanitary Sewer Overflow
SSOP	Sanitary Sewer Overflow Plan
SWOR2	Southwestern Outfall Relief - Phase 2
SWPS	Southwestern Pump Station
TM	Technical Memorandum
TMDL	Total Maximum Daily Load
TV	Television
UIM	Utility Information Management
UK	University of Kentucky
USACE	US Army Corps of Engineers
USF&W	United States Fish and Wildlife
USGS	United States Geological Survey
WDR	Wastewater Discharge Regulators
WIN	Waterway Improvements Now
WQT	Water Quality Tool
WQTC	Water Quality Treatment Center
WW	Wet Weather
WWT	Wet Weather Team

Appendix D – SCAP Balance



Capacity Credit Balance Sheet per Credit Basin

<u>APNO</u>	<u>APNAME</u>	<u>APTTYPE</u>	<u>FLOW</u>	<u>Approval Date</u>	<u>Planned Credit Required/ Flow Reduction</u>	<u>Running Total</u>	<u>Released/ Completed</u>	<u>Actual Credit Required/ Flow Reduction</u>	<u>Running Total</u>
CCREEK									
235533	CEDAR CK IFP WORK AUG05-NOV08	SCAPCREDI			6,521.00	6,521.00	11/1/08	6,521.00	6,521.00
236380	FAIRMOUNT ROAD MH REHAB	SCAPCREDI			10,734.00	17,255.00	6/5/09	10,734.00	17,255.00
362688	CCRK IFP ACTIVITY NOV08-MAY12	SCAPCREDI		5/1/12	2,161.00	19,416.00	5/1/12	2,161.00	19,416.00
362689	CCRK IFP ACTIVITY JUN12-AUG12	SCAPCREDI		8/31/12	2,047.00	21,463.00	8/31/12	2,047.00	21,463.00
320989	LITTLE CEDAR CREEK I/I REHABIL	SCAPCREDI		9/27/12	652,907.00	674,370.00	9/27/12	652,907.00	674,370.00
263934	ST JAMES CROSSINGS	LAT EXT	9,000.00	7/21/11	-19,575.00	654,795.00	11/30/12	-19,575.00	654,795.00
196927	SONIC SPRINGS	LAT EXT	3,600.00	1/26/12	-7,830.00	646,965.00	12/5/12	0.00	654,795.00
355203	GILLISPE PROPERTY/HANOVER TRAC	LAT EXT	80,400.00	9/12/13	-174,870.00	472,095.00			654,795.00
COMBSYST									
359368	CALENDAR 2005 DOWNSPOUT CREDIT	SCAPCREDI		12/31/05	148,000.00	148,000.00	12/31/05	148,000.00	148,000.00
359370	CALENDAR 2006 DOWNSPOUT CREDIT	SCAPCREDI		12/31/06	288,000.00	436,000.00	12/31/06	288,000.00	436,000.00
359371	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDI		12/31/07	2,560,000.00	2,996,000.00	12/31/07	2,560,000.00	2,996,000.00
359308	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDI		12/31/07	20,000.00	3,016,000.00	12/31/07	20,000.00	3,016,000.00
236304	PARK BOUNDARY RD EMRGNCY REHAB	SCAPCREDI			29,264.00	3,045,264.00	10/25/08	29,264.00	3,045,264.00
235576	CSO AREA IFP WORK AUG05-NOV08	SCAPCREDI			97,061.00	3,142,325.00	11/1/08	97,061.00	3,142,325.00
236299	BEARGRASS INT REHAB PH1 COMBIN	SCAPCREDI			8,640.00	3,150,965.00	12/22/08	8,640.00	3,150,965.00
359372	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDI		12/31/08	1,144,000.00	4,294,965.00	12/31/08	1,144,000.00	4,294,965.00
359312	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDI		12/31/09	40,000.00	4,334,965.00	12/31/09	40,000.00	4,334,965.00
359373	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDI		12/31/09	692,000.00	5,026,965.00	12/31/09	692,000.00	5,026,965.00
267827	ATTEBERRY SMITH	LAT EXT	570.00	6/9/10	-1,239.75	5,025,725.25			5,026,965.00
281513	NEW MEDICAL OFFICE BUILDING	LAT EXT	2,500.00	10/28/10	-5,437.50	5,020,287.75			5,026,965.00
320977	BEARGRASS CREEK PHASE II - FY1	SCAPCREDI		12/14/10	8,640.00	5,028,927.75	12/14/10	8,640.00	5,035,605.00
359314	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDI		12/31/10	56,000.00	5,084,927.75	12/31/10	56,000.00	5,091,605.00
359374	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDI		12/31/10	2,324,000.00	7,408,927.75	12/31/10	2,324,000.00	7,415,605.00
320912	HAZELWOOD REHABILITATION - FY1	SCAPCREDI		6/30/11	38,700.00	7,447,627.75	6/30/11	38,700.00	7,454,305.00
359315	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDI		12/31/11	88,000.00	7,535,627.75	12/31/11	88,000.00	7,542,305.00
359377	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDI		12/31/11	1,204,000.00	8,739,627.75	12/31/11	1,204,000.00	8,746,305.00
267824	MASONIC HOMES MIRALEA INDEPEND	LAT EXT	29,400.00	6/9/10	-63,945.00	8,675,682.75	10/16/12	0.00	8,746,305.00
320985	CAMP TAYLOR AREA 5 I/I REHABIL	SCAPCREDI		11/1/12	3,291.00	8,678,973.75	11/1/12	3,291.00	8,749,596.00
359317	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDI		12/31/12	112,000.00	8,790,973.75	12/31/12	112,000.00	8,861,596.00
359378	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDI		12/31/12	492,000.00	9,282,973.75	12/31/12	492,000.00	9,353,596.00
352915	DUNDEE ROAD APARTMENTS	LAT EXT	4,000.00	8/29/13	-8,700.00	9,274,273.75			9,353,596.00

FFORK

APNO	APNAME	APTYPE	FLOW	Approval Date	Planned Credit Required/ Flow Reduction	Running Total	Released/ Completed	Actual Credit Required/ Flow Reduction	Running Total
361689	LAKE FOREST REHAB PH1	SCAPCREDI			174,769.00	174,769.00		29,710.73	29,710.73
235557	FLOYDSFRK IFP WORK AUG05-NOV08	SCAPCREDI			14,540.00	189,309.00	11/1/08	14,540.00	44,250.73
362638	FY09 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/08	1.00	189,310.00	12/31/08	1.00	44,251.73
362647	FY09 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/09	4.00	189,314.00	6/30/09	4.00	44,255.73
238873	OAKLAWN SENIOR LIVING FACILITY	LAT EXT	8,250.00	8/20/09	-17,943.75	171,370.25			44,255.73
362651	FY10 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/09	524.00	171,894.25	12/31/09	524.00	44,779.73
230379	SHAKES RUN SECTION 4	LAT EXT	3,770.00	4/22/09	-8,199.75	163,694.50	1/5/10	-8,199.75	36,579.98
362655	FY10 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/10	81.00	163,775.50	6/30/10	81.00	36,660.98
362661	FY11 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/10	14,155.00	177,930.50	12/31/10	14,155.00	50,815.98
362669	FY11 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/11	22,707.00	200,637.50	6/30/11	22,707.00	73,522.98
309608	BLANKENBAKER TRAIL OFFICE LN-B	LAT EXT	2,880.00	9/30/11	-6,264.00	194,373.50			73,522.98
242480	CLAIBOURNE CROSSINGS PHASE 2	LAT EXT	0.00	9/3/09	0.00	194,373.50	10/17/11	0.00	73,522.98
359320	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDI		12/31/11	4,000.00	198,373.50	12/31/11	4,000.00	77,522.98
362674	FY12 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/11	2.00	198,375.50	12/31/11	2.00	77,524.98
362678	FY12 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/12	331.00	198,706.50	6/30/12	331.00	77,855.98
337398	GLEN LAKES SEC 4 PH1	LAT EXT	8,000.00	8/10/12	-17,400.00	181,306.50			77,855.98
315945	BROOKFIELD SEC 3	LAT EXT	12,800.00	12/8/11	-27,840.00	153,466.50	10/26/12	-27,004.80	50,851.18
362683	FY13 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/12	3.00	153,469.50	12/31/12	3.00	50,854.18
353011	BROOKFIELD SEC 2B	LAT EXT	7,600.00	2/7/13	-16,530.00	136,939.50			50,854.18
331397	BROOKFIELD SEC 2A	LAT EXT	14,400.00	6/14/12	-31,320.00	105,619.50	5/8/13	0.00	50,854.18
13LE1000	The Enclave at Glen Lakes Sec 2	LAT EXT	6,800.00	5/30/13	-14,790.00	90,829.50			50,854.18
13LE1062	SPEEDWAY #100175	LAT EXT	540.00	8/15/13	-1,174.50	89,655.00			50,854.18
13LE1085	AVOCA ROAD PROPERTY	LAT EXT	47,200.00	9/19/13	-102,660.00	-13,005.00			50,854.18
13LE1096	PIZZA RESTAURANT	LAT EXT	1,500.00	9/19/13	-3,262.50	-16,267.50			50,854.18
13LE1110	THE SHOPPES AT GARDINER PARK	LAT EXT	13,409.00	10/3/13	-29,164.58	-45,432.08			50,854.18
309600	CLAIBOURNE CROSSINGS MULTI-FAM	LAT EXT	71,400.00	3/15/12	-155,295.00	-200,727.08	10/4/13	0.00	50,854.18
13LE1031	HALLMARK HOUSE ASSISTED LIVING FACILITY	LAT EXT	3,300.00	10/17/13	-7,177.50	-207,904.58			50,854.18
HCREEK									
235561	HITE CK IFP WORK AUG05-NOV08	SCAPCREDI			6,404.00	6,404.00	11/1/08	6,404.00	6,404.00
362641	FY09 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/08	2.00	6,406.00	12/31/08	2.00	6,406.00
362648	FY09 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/09	8.00	6,414.00	6/30/09	8.00	6,414.00
362652	FY10 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/09	8.00	6,422.00	12/31/09	8.00	6,422.00
362657	FY10 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/10	329.00	6,751.00	6/30/10	329.00	6,751.00
295322	FLOYDSBURG RD I/I INVEST/REHAB	SCAPCREDI			28,437.00	35,188.00	12/17/10	28,437.00	35,188.00
320906	FLOYDSBURG ROAD I/I REHABILITA	SCAPCREDI		12/17/10	28,437.00	63,625.00	12/17/10	28,437.00	63,625.00
362662	FY11 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/10	3.00	63,628.00	12/31/10	3.00	63,628.00

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362670	FY11 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/11	5.00	63,633.00	6/30/11	5.00	63,633.00
304536	MAGNOLIA SPRINGS EAST PRIV P/S	LAT EXT	9,500.00	7/28/11	-20,662.50	42,970.50			63,633.00
246638	CHAPMAN COURT S/S	LAT EXT	800.00	10/21/09	-1,740.00	41,230.50	9/28/11	-870.00	62,763.00
362675	FY12 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/11	332.00	41,562.50	12/31/11	332.00	63,095.00
362679	FY12 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/12	5,002.00	46,564.50	6/30/12	5,002.00	68,097.00
290181	CAMDEN WOOD APARTMENTS	LAT EXT	12,400.00	10/26/11	-26,970.00	19,594.50	8/31/12	0.00	68,097.00
335610	ROCK SPRINGS FARM SEC 4B	LAT EXT	6,400.00	7/26/12	-13,920.00	5,674.50	12/7/12	-8,769.60	59,327.40
362684	FY13 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/12	3.00	5,677.50	12/31/12	3.00	59,330.40
13LE1080	NORTON COMMONS SEC C PH 10	LAT EXT	18,000.00	9/5/13	-39,150.00	-33,472.50			59,330.40
241173	INDEPENDENCE PARK @APPLE PATCH	LAT EXT	21,600.00	9/28/12	-46,980.00	-80,452.50	10/4/13	0.00	59,330.40
JTOWN									
235563	J-TOWN IFP WORK AUG05-NOV08	SCAPCREDI		11/1/08	6,203.00	6,203.00	11/1/08	6,203.00	6,203.00
359323	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDI		12/31/08	4,000.00	10,203.00	12/31/08	4,000.00	10,203.00
254871	LAKESIDE BAPT CHURCH PRIV PS	LAT EXT	2,500.00	1/7/10	-5,437.50	4,765.50	8/10/10	-5,437.50	4,765.50
340213	JEFFERSONTOWN ENG REHAB	SCAPCREDI		8/11/11	997,448.00	1,002,213.50	8/11/11	997,448.00	1,002,213.50
359324	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDI		12/31/11	4,000.00	1,006,213.50	12/31/11	4,000.00	1,006,213.50
326360	WATTERSON TRAIL CENTER	LAT EXT	2,745.00	4/19/12	-5,970.38	1,000,243.13			1,006,213.50
13LE1067	BLANKENBAKER OFFICE BLDG	LAT EXT	2,220.00	8/22/13	-4,828.50	995,414.63			1,006,213.50
13LE1092	BALE EQUIPMENT	LAT EXT	450.00	9/19/13	-978.75	994,435.88			1,006,213.50
13LE1098	UNIPAK	LAT EXT	720.00	9/30/13	-1,566.00	992,869.88			1,006,213.50
MCREEK									
359380	CALENDAR 2005 DOWNSPOUT CREDIT	SCAPCREDI		12/31/05	12,000.00	12,000.00	12/31/05	12,000.00	12,000.00
359381	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDI		12/31/07	24,000.00	36,000.00	12/31/07	24,000.00	36,000.00
235568	MILL CK IFP WORK AUG05-NOV08	SCAPCREDI			51,530.00	87,530.00	11/1/08	51,530.00	87,530.00
359382	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDI		12/31/08	16,000.00	103,530.00	12/31/08	16,000.00	103,530.00
362642	FY09 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/08	93.00	103,623.00	12/31/08	93.00	103,623.00
362649	FY09 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/09	1,507.00	105,130.00	6/30/09	1,507.00	105,130.00
253586	KINGSFORD RETAIL CENTER	LAT EXT	400.00	12/17/09	-870.00	104,260.00			105,130.00
362653	FY10 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/09	25,272.00	129,532.00	12/31/09	25,272.00	130,402.00
359383	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDI		12/31/09	32,000.00	161,532.00	12/31/09	32,000.00	162,402.00
255156	RIVERVIEW PARK	LAT EXT	750.00	1/7/10	-1,631.25	159,900.75			162,402.00
238421	6840 DIXIE HWY OUTLOT	LAT EXT	2,100.00	7/23/09	-4,567.50	155,333.25	4/28/10	-4,567.50	157,834.50
265944	RIVERPORT PHASE 4A - MICHELIN	LAT EXT	400.00	5/20/10	-870.00	154,463.25			157,834.50
362658	FY10 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/10	6,213.00	160,676.25	6/30/10	6,213.00	164,047.50
276215	FAMILY DOLLAR - KRISTIN WAY	LAT EXT	400.00	9/1/10	-870.00	159,806.25			164,047.50

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362664	FY11 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/10	22,740.00	182,546.25	12/31/10	22,740.00	186,787.50
359384	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDI		12/31/10	4,000.00	186,546.25	12/31/10	4,000.00	190,787.50
359325	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDI		12/31/10	8,000.00	194,546.25	12/31/10	8,000.00	198,787.50
320916	SONNE AVE PS REHABILITATION -	SCAPCREDI		6/30/11	120,800.00	315,346.25	6/30/11	120,800.00	319,587.50
362671	FY11 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/11	11,615.00	326,961.25	6/30/11	11,615.00	331,202.50
359385	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDI		12/31/11	12,000.00	338,961.25	12/31/11	12,000.00	343,202.50
362676	FY12 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/11	3,245.00	342,206.25	12/31/11	3,245.00	346,447.50
359326	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDI		12/31/11	12,000.00	354,206.25	12/31/11	12,000.00	358,447.50
362680	FY12 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/12	2,807.00	357,013.25	6/30/12	2,807.00	361,254.50
361693	FY12 MILL CREEK REHAB	SCAPCREDI		6/30/12	81,675.00	438,688.25	6/30/12	81,675.00	442,929.50
231800	PIONEER MOBILE HOME PARK	LAT EXT	11,200.00	5/14/09	-24,360.00	414,328.25	7/24/12	-24,360.00	418,569.50
237457	WAVERLY HILLS	LAT EXT	400.00	8/28/09	-870.00	413,458.25	9/18/12	-870.00	417,699.50
343763	SOUTHEAST CHRISTIAN CHURCH SW	LAT EXT	6,000.00	10/22/12	-13,050.00	400,408.25			417,699.50
359327	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDI		12/31/12	148,000.00	548,408.25	12/31/12	148,000.00	565,699.50
362685	FY13 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/12	22,980.00	571,388.25	12/31/12	22,980.00	588,679.50
359386	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDI		12/31/12	4,000.00	575,388.25	12/31/12	4,000.00	592,679.50
224875	ASHBY GREEN APARTMENT HOMES	LAT EXT	36,400.00	2/3/11	-79,170.00	496,218.25	3/20/13	-19,792.50	572,887.00
219525	VERUS DISTRIBUTION	LAT EXT	3,780.00	8/8/13	-8,221.50	487,996.75			572,887.00
13LE1070	SUBWAY CANE RUN RD	LAT EXT	400.00	8/29/13	-870.00	487,126.75			572,887.00
13LE1079	WALMART FUELING STATION	LAT EXT	400.00	9/5/13	-870.00	486,256.75			572,887.00
MFORK									
359400	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDI		12/31/07	84,000.00	84,000.00	12/31/07	84,000.00	84,000.00
359328	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDI		12/31/07	20,000.00	104,000.00	12/31/07	20,000.00	104,000.00
235566	MID FORK IFP WORK AUG05-NOV08	SCAPCREDI			43,779.00	147,779.00	11/1/08	43,779.00	147,779.00
359329	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDI		12/31/08	8,000.00	155,779.00	12/31/08	8,000.00	155,779.00
236517	ANCHOR ESTATES MH REHAB	SCAPCREDI			15,552.00	171,331.00	1/16/09	15,552.00	171,331.00
217235	SINKING FORK ICA PHASE I REHAB	SCAPCREDI		3/30/09	437,967.00	609,298.00	3/30/09	437,967.00	609,298.00
235376	MIDDLE FORK INT REHAB PH1	SCAPCREDI		5/15/09	487,744.00	1,097,042.00	5/15/09	487,744.00	1,097,042.00
179246	SHADY GLEN OF LYNDON PERSONAL	LAT EXT	-500.00	1/28/10	1,087.50	1,098,129.50	5/26/09	1,087.50	1,098,129.50
250572	1316 WITAWANGA AVE	LAT EXT	400.00	11/12/09	-870.00	1,097,259.50			1,098,129.50
359331	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDI		12/31/09	24,000.00	1,121,259.50	12/31/09	24,000.00	1,122,129.50
359401	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDI		12/31/09	4,000.00	1,125,259.50	12/31/09	4,000.00	1,126,129.50
197432	ALMOST HOME KENNELS - ALL PET	LAT EXT	3,700.00	1/7/10	-8,047.50	1,117,212.00			1,126,129.50
229834	THE BROOK HOS- DUPONT ADDITION	LAT EXT	1,763.00	7/2/09	-3,834.53	1,113,377.48	4/27/10	-3,834.53	1,122,294.98
265723	Z-XPRESS CAR WASH	LAT EXT	5,449.00	5/20/10	-11,851.58	1,101,525.90			1,122,294.98
359402	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDI		12/31/10	8,000.00	1,109,525.90	12/31/10	8,000.00	1,130,294.98

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359333	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDI		12/31/10	12,000.00	1,121,525.90	12/31/10	12,000.00	1,142,294.98
285637	SHELBYHURST OFFICE BUILDING 1	LAT EXT	6,600.00	1/6/11	-14,355.00	1,107,170.90			1,142,294.98
330019	FY11 ANCHOR ESTATES REHAB	SCAPCREDI		8/11/11	1,359.00	1,108,529.90	8/11/11	1,359.00	1,143,653.98
310046	EL NAPEL - MCMAHAN CENTER	LAT EXT	3,100.00	9/30/11	-6,742.50	1,101,787.40			1,143,653.98
320983	HURSTBOURNE I/I INVESTIGATION	SCAPCREDI		12/27/11	1,408,279.00	2,510,066.40	12/27/11	1,408,279.00	2,551,932.98
359335	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDI		12/31/11	16,000.00	2,526,066.40	12/31/11	16,000.00	2,567,932.98
328074	SINGLE FAMILY-703 FOUNTAIN AVE	LAT EXT	400.00	5/11/12	-870.00	2,525,196.40			2,567,932.98
328652	CINEMARK THEATER AT MALL ST.MA	LAT EXT	0.00	5/18/12	0.00	2,525,196.40			2,567,932.98
166053	616 & 618 FOUNTAIN AVE S/S	LAT EXT	1,600.00	6/4/12	-3,480.00	2,521,716.40			2,567,932.98
320923	ST MATTHEWS I/I REHABILITATION	SCAPCREDI			20,841.00	2,542,557.40	8/23/12	20,841.00	2,588,773.98
359336	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDI		12/31/12	92,000.00	2,634,557.40	12/31/12	92,000.00	2,680,773.98
352026	MCMAHAN PLAZA PHASE II BLDG B	LAT EXT	766.00	1/24/13	-1,666.05	2,632,891.35			2,680,773.98
13LE1042	SINGLE FAMILY 8401 ROLAND AVE	LAT EXT	400.00	7/25/13	-870.00	2,632,021.35			2,680,773.98
13LE1043	DOCTOR ZOOM	LAT EXT	400.00	7/25/13	-870.00	2,631,151.35			2,680,773.98
331542	DENTAL/MEDICAL OFFICE BLDG	LAT EXT	400.00	7/25/13	-870.00	2,630,281.35			2,680,773.98
13LE1045	SINGLE FAMILY 8325 WHIPPS MILL RD	LAT EXT	400.00	7/25/13	-870.00	2,629,411.35			2,680,773.98
353963	DORSEY COMMONS TRACTS 1.2.3	LAT EXT	4,335.00	8/1/13	-9,428.63	2,619,982.73			2,680,773.98
226874	CHESTNUT RIDGE - PHASE I	LAT EXT	109,200.00	9/19/13	-237,510.00	2,382,472.73			2,680,773.98
13LE1094	SINGLE FAMILY 7610 NORWOOD DR	LAT EXT	400.00	9/19/13	-870.00	2,381,602.73			2,680,773.98
13LE1099	NICKLIES - ST MATTHEWS	LAT EXT	1,920.00	9/30/13	-4,176.00	2,377,426.73			2,680,773.98
13LE1103	OXMOOR PARK CONDOS	LAT EXT	5,000.00	10/3/13	-10,875.00	2,366,551.73			2,680,773.98
319292	WATERMARK ON HURSTBOURNE	LAT EXT	71,600.00	5/18/12	-155,730.00	2,210,821.73	10/22/13	0.00	2,680,773.98
NDITCH									
359404	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDI		12/31/07	28,000.00	28,000.00	12/31/07	28,000.00	28,000.00
235569	N.DITCH IFP WORK AUG05-NOV08	SCAPCREDI			11,147.00	39,147.00	11/1/08	11,147.00	39,147.00
236363	NORTHERN DITCH INT REHAB PH1	SCAPCREDI			108,760.00	147,907.00	11/25/08	108,760.00	147,907.00
234678	THE LIGHTHOUSE PROMISE COMPLEX	LAT EXT	2,825.00	10/8/09	-6,144.38	141,762.63			147,907.00
359339	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDI		12/31/09	4,000.00	145,762.63	12/31/09	4,000.00	151,907.00
284728	SUBWAY - NEW CUT RD	LAT EXT	1,314.00	12/2/10	-2,857.95	142,904.68			151,907.00
359340	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDI		12/31/10	4,000.00	146,904.68	12/31/10	4,000.00	155,907.00
320908	PARKVIEW ESTATES REHABILITATIO	SCAPCREDI		6/28/11	36.00	146,940.68	6/28/11	36.00	155,943.00
359341	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDI		12/31/11	24,000.00	170,940.68	12/31/11	24,000.00	179,943.00
359405	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDI		12/31/11	12,000.00	182,940.68	12/31/11	12,000.00	191,943.00
359343	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDI		12/31/12	24,000.00	206,940.68	12/31/12	24,000.00	215,943.00
13LE1126	JENNINGS CROSSING TRACT 3	LAT EXT	2,100.00	10/17/13	-4,567.50	202,373.18			215,943.00



Capacity Credit Balance Sheet per Credit Basin

APNO	APNAME	APTTYPE	FLOW	Approval Date	Planned Credit Required/ Flow Reduction	Running Total	Released/ Completed	Actual Credit Required/ Flow Reduction	Running Total
ORFM									
359433	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDI		12/31/07	56,000.00	56,000.00	12/31/07	56,000.00	56,000.00
359344	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDI		12/31/07	4,000.00	60,000.00	12/31/07	4,000.00	60,000.00
235572	ORFM IFP WORK AUG05-NOV08	SCAPCREDI			19,826.00	79,826.00	11/1/08	19,826.00	79,826.00
362643	FY09 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/08	2.00	79,828.00	12/31/08	2.00	79,828.00
362650	FY09 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/09	3,836.00	83,664.00	6/30/09	3,836.00	83,664.00
362654	FY10 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/09	7,322.00	90,986.00	12/31/09	7,322.00	90,986.00
254919	TRILOGY HEALTH SERVICES, LLC	LAT EXT	8,200.00	1/7/10	-17,835.00	73,151.00			90,986.00
263548	SINGLE FAMILY CONNECTION	LAT EXT	400.00	4/29/10	-870.00	72,281.00			90,986.00
362660	FY10 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/10	6,630.00	78,911.00	6/30/10	6,630.00	97,616.00
362665	FY11 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/10	165.00	79,076.00	12/31/10	165.00	97,781.00
362672	FY11 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/11	4,124.00	83,200.00	6/30/11	4,124.00	101,905.00
280837	SPRINGHURST TOWNE CTR LOT C	LAT EXT	400.00	9/8/11	-870.00	82,330.00			101,905.00
320920	SHADOW WOOD I/I REHABILITATION	SCAPCREDI			14,279.00	96,609.00	9/30/11	14,279.00	116,184.00
359345	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDI		12/31/11	16,000.00	112,609.00	12/31/11	16,000.00	132,184.00
359434	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDI		12/31/11	16,000.00	128,609.00	12/31/11	16,000.00	148,184.00
362677	FY12 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/11	7,258.00	135,867.00	12/31/11	7,258.00	155,442.00
320921	DERINGTON COURT I/I REHABILITA	SCAPCREDI		3/1/12	56,208.00	192,075.00	3/1/12	56,208.00	211,650.00
187028	GLENVIEW PARK SUBD SECTION 1	LAT EXT	4,400.00	11/18/10	-9,570.00	182,505.00	3/5/12	-2,871.00	208,779.00
213450	GLENVIEW PARK SUB. SEC 2	LAT EXT	5,600.00	11/18/10	-12,180.00	170,325.00	3/5/12	-2,557.80	206,221.20
322458	KROGER L-707 STORE EXPANSION	LAT EXT	400.00	3/8/12	-870.00	169,455.00			206,221.20
362681	FY12 IFP ACTIVITY SECOND HALF	SCAPCREDI		6/30/12	18,220.00	187,675.00	6/30/12	18,220.00	224,441.20
292239	SPRINGHURST RESTAURANT/ RETAIL	LAT EXT	3,440.00	3/24/11	-7,482.00	180,193.00	7/5/12	-7,482.00	216,959.20
334154	GLENVIEW PARK SUBD SEC 4	LAT EXT	3,600.00	7/20/12	-7,830.00	172,363.00			216,959.20
363238	FY13 PROSPECT MANHOLE REHAB	SCAPCREDI		12/18/12	72,703.00	245,066.00	12/18/12	72,703.00	289,662.20
359346	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDI		12/31/12	24,000.00	269,066.00	12/31/12	24,000.00	313,662.20
363235	FY13 MUDDY FORK MH REHAB	SCAPCREDI		12/31/12	41,653.00	310,719.00	12/31/12	41,653.00	355,315.20
362686	FY13 IFP ACTIVITY FIRST HALF	SCAPCREDI		12/31/12	1,148.00	311,867.00	12/31/12	1,148.00	356,463.20
343729	RETAIL & RESTAURANT	LAT EXT	3,500.00	10/18/12	-7,612.50	304,254.50	6/21/13	0.00	356,463.20
13LE1024	Overlook at Beech Sprinq Farm Sec 4	LAT EXT	5,600.00	6/27/13	-12,180.00	292,074.50			356,463.20
311412	SPRINGHURST CHEVROLET	LAT EXT	855.00	9/5/13	-1,859.63	290,214.88			356,463.20
13LE1100	INDIAN SPRINGS HOTEL	LAT EXT	25,350.00	9/30/13	-55,136.25	235,078.63			356,463.20
13LE1113	LOU COUNTRY CLUB GOLF AND TENNIS ADDIT	LAT EXT	400.00	10/10/13	-870.00	234,208.63			356,463.20
330627	SPRING CREEK SUBDIVISION SEC 4	LAT EXT	2,400.00	10/24/13	-5,220.00	228,988.63			356,463.20

PCREEK

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320924	LEA ANN WAY INTERCEPTOR I&I RE	SCAPCREDI			1,017,423.00	1,017,423.00		1,017,423.00	1,017,423.00
235574	POND CRK IFP WORK AUG05-NOV08	SCAPCREDI			71,782.00	1,089,205.00	11/1/08	71,782.00	1,089,205.00
359347	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDI		12/31/08	4,000.00	1,093,205.00	12/31/08	4,000.00	1,093,205.00
359438	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDI		12/31/08	4,000.00	1,097,205.00	12/31/08	4,000.00	1,097,205.00
192513	BANNON CROSSINGS SECTION 3A-1	LAT EXT	800.00	1/14/09	-1,740.00	1,095,465.00			1,097,205.00
219734	DSL LIFE LONG LEARNING CENTER	LAT EXT	900.00	1/15/09	-1,957.50	1,093,507.50			1,097,205.00
359439	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDI		12/31/09	12,000.00	1,105,507.50	12/31/09	12,000.00	1,109,205.00
359348	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDI		12/31/09	4,000.00	1,109,507.50	12/31/09	4,000.00	1,113,205.00
261115	EMERGENCY RESTORATION	LAT EXT	400.00	4/1/10	-870.00	1,108,637.50			1,113,205.00
284215	HURSTBOURNE POINTE APTS	LAT EXT	9,600.00	12/2/10	-20,880.00	1,087,757.50			1,113,205.00
359350	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDI		12/31/10	12,000.00	1,099,757.50	12/31/10	12,000.00	1,125,205.00
187739	GLENGARRY INDUSTRIAL PARK	LAT EXT	4,300.00	5/14/09	-9,352.50	1,090,405.00	1/13/11	-9,352.50	1,115,852.50
320918	EDSEL I/I REHABILITATION - FY1	SCAPCREDI		9/27/11	106,700.00	1,197,105.00	9/27/11	106,700.00	1,222,552.50
320919	LANTANA I/I REHABILITATION - F	SCAPCREDI		12/29/11	5,000.00	1,202,105.00	12/29/11	5,000.00	1,227,552.50
359351	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDI		12/31/11	20,000.00	1,222,105.00	12/31/11	20,000.00	1,247,552.50
308206	APPLEGATE FARMS	LAT EXT	57,200.00	5/18/12	-124,410.00	1,097,695.00			1,247,552.50
234102	ETHOS AT VALLEY FARM SR LIVING	LAT EXT	7,050.00	9/7/10	-15,333.75	1,082,361.25	6/19/12	-7,666.88	1,239,885.63
279860	BANNON CROSSINGS SEC 3B-2	LAT EXT	9,600.00	10/6/10	-20,880.00	1,061,481.25	8/10/12	-19,209.60	1,220,676.03
312053	DOLLAR GENERAL - CLEARWATER FA	LAT EXT	400.00	10/21/11	-870.00	1,060,611.25	8/13/12	-870.00	1,219,806.03
243109	OVERBROOK APARTMENTS	LAT EXT	41,200.00	9/17/09	-89,610.00	971,001.25	11/9/12	-44,805.00	1,175,001.03
341439	PRESTON GARDENS APTS	LAT EXT	22,200.00	12/13/12	-48,285.00	922,716.25			1,175,001.03
359354	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDI		12/31/12	56,000.00	978,716.25	12/31/12	56,000.00	1,231,001.03
348014	ASHTON PARK TOWN HOMES	LAT EXT	30,000.00	4/18/13	-65,250.00	913,466.25			1,231,001.03
335385	HARRISON LOW PRESSURE S/S	LAT EXT	1,600.00	7/19/12	-3,480.00	909,986.25	7/2/13	0.00	1,231,001.03
331546	BLAIR JEFFERSON BLVD	LAT EXT	3,500.00	7/25/13	-7,612.50	902,373.75			1,231,001.03
13LE1046	Preston Plaza	LAT EXT	2,993.00	7/25/13	-6,509.78	895,863.98			1,231,001.03
320940	4 RESIDENCE SFU 7821 MANSLICK	LAT EXT	400.00	2/16/12	-870.00	894,993.98	8/16/13	0.00	1,231,001.03
13LE1017	CITYSCAPE APARTMENTS	LAT EXT	78,000.00	8/26/13	-169,650.00	725,343.98			1,231,001.03
324886	PNC BANK	LAT EXT	400.00	4/5/12	-870.00	724,473.98	9/6/13	0.00	1,231,001.03
13LE1083	SINGLE FAMILY HOME 5402 (H) E MANSLICK RD	LAT EXT	400.00	9/12/13	-870.00	723,603.98			1,231,001.03
13LE1086	WOODS OF PEN RUN OFFSITE SS	LAT EXT	1,000.00	9/19/13	-2,175.00	721,428.98			1,231,001.03
13LE1101	SPRING VILLA	LAT EXT	32,400.00	10/1/13	-70,470.00	650,958.98			1,231,001.03
13LE1105	JEFFERSON COMMONS	LAT EXT	17,075.00	10/3/13	-37,138.13	613,820.85			1,231,001.03
13LE1115	VERIZON-OUTER LOOP	LAT EXT	400.00	10/10/13	-870.00	612,950.85			1,231,001.03
13LE1025	WILDWOOD GREEN	LAT EXT	151,200.00	10/24/13	-328,860.00	284,090.85			1,231,001.03

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359355	CALENDAR 2007 SUMP PUMP CREDIT	SCAPCREDI		12/31/07	8,000.00	8,000.00	12/31/07	8,000.00	8,000.00
359440	CALENDAR 2007 DOWNSPOUT CREDIT	SCAPCREDI		12/31/07	128,000.00	136,000.00	12/31/07	128,000.00	136,000.00
235575	SE DIV IFP WORK AUG05-NOV08	SCAPCREDI			71,472.00	207,472.00	11/1/08	71,472.00	207,472.00
236214	GOLDSMITH BUECHB ICA PHI REHAB	SCAPCREDI			314,808.00	522,280.00	12/22/08	314,808.00	522,280.00
236296	BEARGRASS INT REHAB PH1 SEDIV	SCAPCREDI			122,688.00	644,968.00	12/22/08	122,688.00	644,968.00
359441	CALENDAR 2008 DOWNSPOUT CREDIT	SCAPCREDI		12/31/08	16,000.00	660,968.00	12/31/08	16,000.00	660,968.00
359356	CALENDAR 2008 SUMP PUMP CREDIT	SCAPCREDI		12/31/08	4,000.00	664,968.00	12/31/08	4,000.00	664,968.00
229854	TINY HANDS DAYCARE	LAT EXT	1,225.00	4/22/09	-2,664.38	662,303.63			664,968.00
238328	LOUISVILLE COLLEGIATE SPORTS	LAT EXT	400.00	7/23/09	-870.00	661,433.63			664,968.00
241759	FRISCHS BIG BOY RESTAURANT	LAT EXT	2,400.00	10/8/09	-5,220.00	656,213.63			664,968.00
359357	CALENDAR 2009 SUMP PUMP CREDIT	SCAPCREDI		12/31/09	12,000.00	668,213.63	12/31/09	12,000.00	676,968.00
359443	CALENDAR 2009 DOWNSPOUT CREDIT	SCAPCREDI		12/31/09	8,000.00	676,213.63	12/31/09	8,000.00	684,968.00
235291	SULLIVAN COLLEGE OF TECHNOLOGY	LAT EXT	900.00	6/25/09	-1,957.50	674,256.13	2/11/10	-1,957.50	683,010.50
320993	BEARGRASS CREEK PHASE II - FY1	SCAPCREDI		12/14/10	10,368.00	684,624.13	12/14/10	10,368.00	693,378.50
359358	CALENDAR 2010 SUMP PUMP CREDIT	SCAPCREDI		12/31/10	4,000.00	688,624.13	12/31/10	4,000.00	697,378.50
359444	CALENDAR 2010 DOWNSPOUT CREDIT	SCAPCREDI		12/31/10	24,000.00	712,624.13	12/31/10	24,000.00	721,378.50
286513	GARDINER POINT RESIDENCE HALL	LAT EXT	10,800.00	1/6/11	-23,490.00	689,134.13			721,378.50
276378	TIRE DISCOUNTERS - BARDSTOWN	LAT EXT	1,500.00	9/1/10	-3,262.50	685,871.63	5/6/11	-3,262.50	718,116.00
359445	CALENDAR 2011 DOWNSPOUT CREDIT	SCAPCREDI		12/31/11	8,000.00	693,871.63	12/31/11	8,000.00	726,116.00
359359	CALENDAR 2011 SUMP PUMP CREDIT	SCAPCREDI		12/31/11	64,000.00	757,871.63	12/31/11	64,000.00	790,116.00
330437	COLLEGIATE ATHLETIC FIELD	LAT EXT	800.00	6/4/12	-1,740.00	756,131.63			790,116.00
307018	HOOK PROPERTY FAMILY DOLLAR	LAT EXT	400.00	3/8/12	-870.00	755,261.63	8/10/12	-870.00	789,246.00
359361	CALENDAR 2012 SUMP PUMP CREDIT	SCAPCREDI		12/31/12	68,000.00	823,261.63	12/31/12	68,000.00	857,246.00
359446	CALENDAR 2012 DOWNSPOUT CREDIT	SCAPCREDI		12/31/12	4,000.00	827,261.63	12/31/12	4,000.00	861,246.00
187741	BROOKSTONE SENIOR APARTMENTS	LAT EXT	16,800.00	8/5/10	-36,540.00	790,721.63	3/11/13	-36,540.00	824,706.00
232601	RAINTREE/MARIAN CT P/S ELIM	LAT EXT	105,800.00	6/15/09	-230,115.00	560,606.63	6/14/13	-161,080.50	663,625.50
13LE1041	RESTAURANT/RETAIL AT 2131 HURSTBOURNE	LAT EXT	1,920.00	7/25/13	-4,176.00	556,430.63			663,625.50
13LE1052	BACHMAN PRE-OWNED CAR DEALERSHIP	LAT EXT	845.00	8/1/13	-1,837.88	554,592.75			663,625.50