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April 30, 2013

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Subject: Quarterly Report 30
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 January 1, 2013 – March 31, 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
www.louisvillegreen.com

Louisville and Jefferson County Wet Weather Consent Decree Quarterly Report #30



Reporting Period:

January 1, 2013 through March 31, 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:

April 30, 2013

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INTRODUCTION

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

This is the thirtieth Quarterly Report submitted in accordance with Paragraph 29 of the Amended Consent Decree. This report covers the time period from January 1, 2013, through March 31, 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 (January 1, 2013, through March 31, 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 (January 1, 2013, through March 31, 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 (January 1, 2013, through March 31, 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 (January 1, 2013, through March 31, 2013), and include the schedule for activities planned for the next two reporting periods (April 1, 2013, through September 30, 2013), 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.msprojectwin.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 246 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 a failure of the gate level sensors that are integral to the integration of this site in the RTC schema. Weather permitting, these sensors will be replaced prior to May 31, 2013, and will allow the site to be operational at that time.

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

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

Sporadic, short-term problems with grit chambers in the East Headworks occurred, resulting in reductions in the capacity of the East Headworks, but did not impact CSOs during the reporting period. In the West Headworks, brief problems with bar screens No. 1 and No. 3 impacted overall capacity, but did not impact CSOs over the reporting period. Primary sedimentation basin No. 4 was out of service from January 5, through February 3, 2013. This reduction in primary sedimentation capacity was the reason peak flows on January 31 were limited to approximately 260 MGD during the wet weather event at that time.

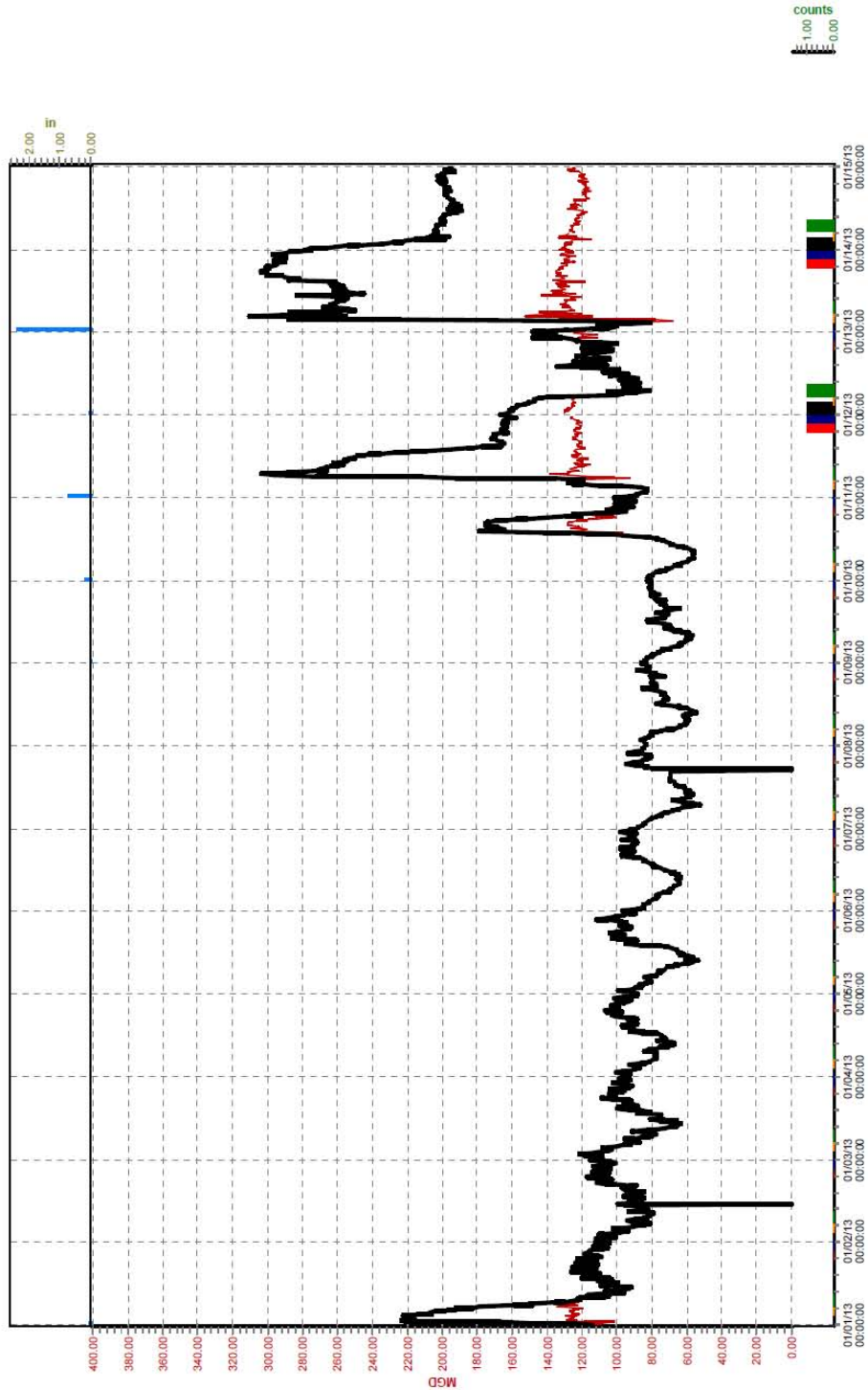
The evaluation of headworks performance and reliability of the West Headworks bar screens, West Headworks grit channels, and the East Headworks bar screens was completed, and

resulted in a preliminary engineering report recommending upgrades to improve headworks performance and reliability. Following MSD review, a 30 percent design is anticipated to begin during the next reporting period.

Morris Forman WQTC - Bypass vs. Large CSOs

(01/01/13 to 01/15/13)

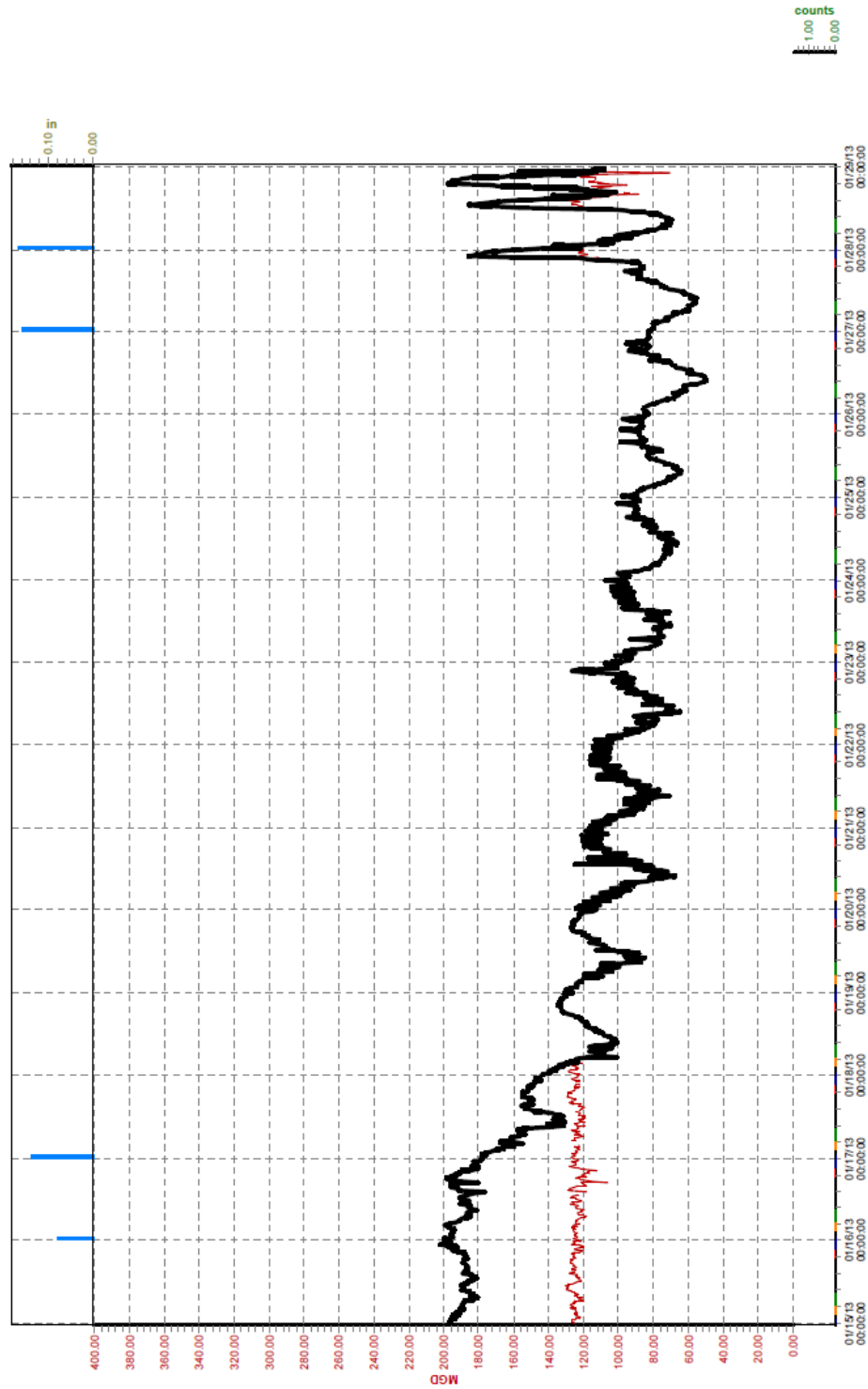
- Secondary Flow (MGD)
- CSD0016 Bell Lane Y-N (counts)
- CSD0191 Bell Lane PS Y-N (counts)
- Plant Effluent Flow (MGD)
- CSD0016 Winrose Way Y-N (counts)
- CSD0211 Whayne Supply Y-N (counts)
- TR04_Morris Forman WQTC:Daily Rain Total (in)
- CSD0210 Whayne Supply Y-N (counts)



Morris Forman WQTC - Bypass vs. Large CSOs

(01/15/13 to 01/29/13)

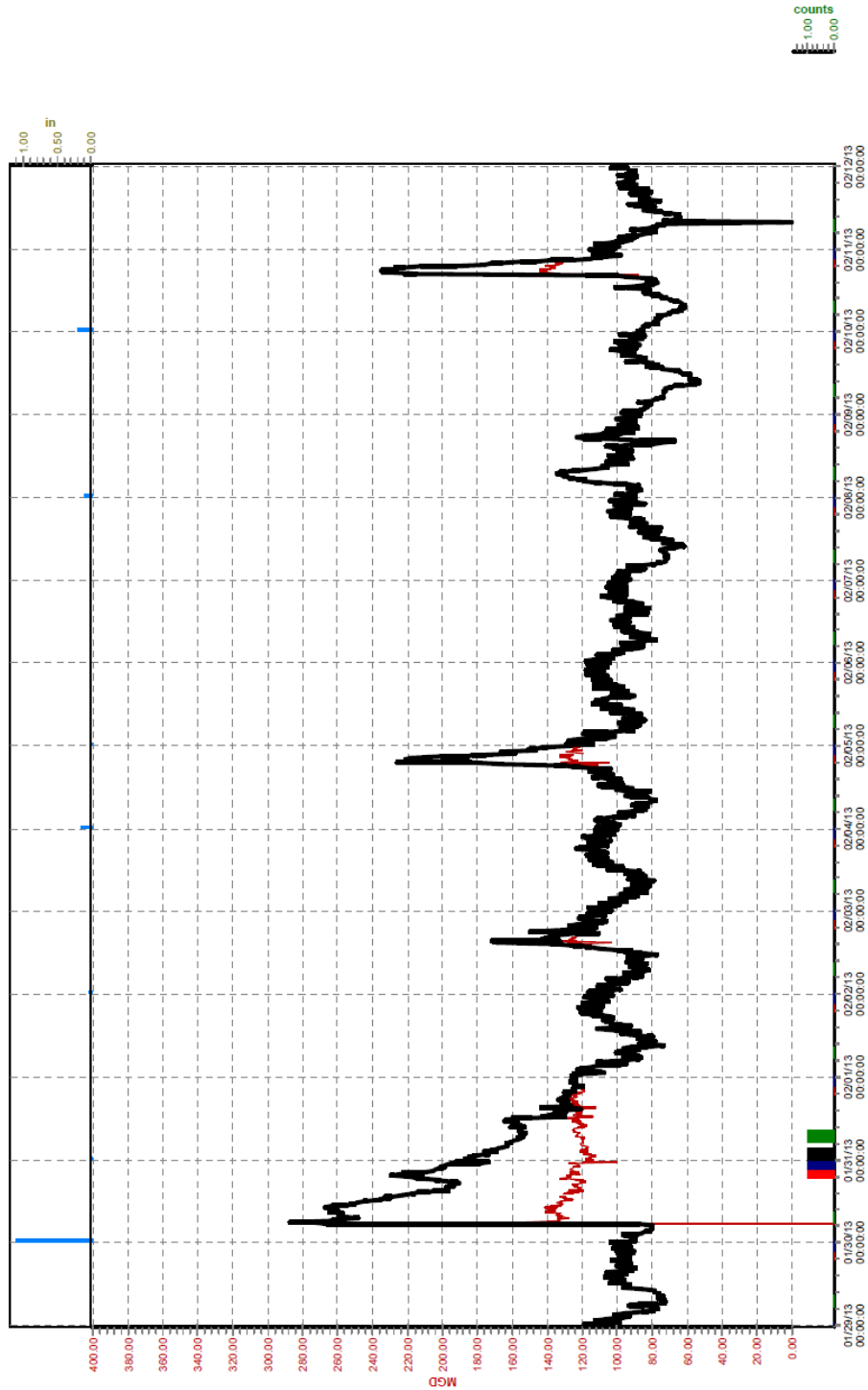
- Secondary Flow (MGD)
- CS001B Bell Lane Y-N (counts)
- CS019T Bells Lane PS Y-N (counts)
- Plant Effluent Flow (MGD)
- CS001G Winrose Way Y-N (counts)
- CS021T Whayne Supply Y-N (counts)
- TR04L Morris Forman WQTC Daily Rain Total (ft)
- CS0210 Whayne Supply Y-N (counts)



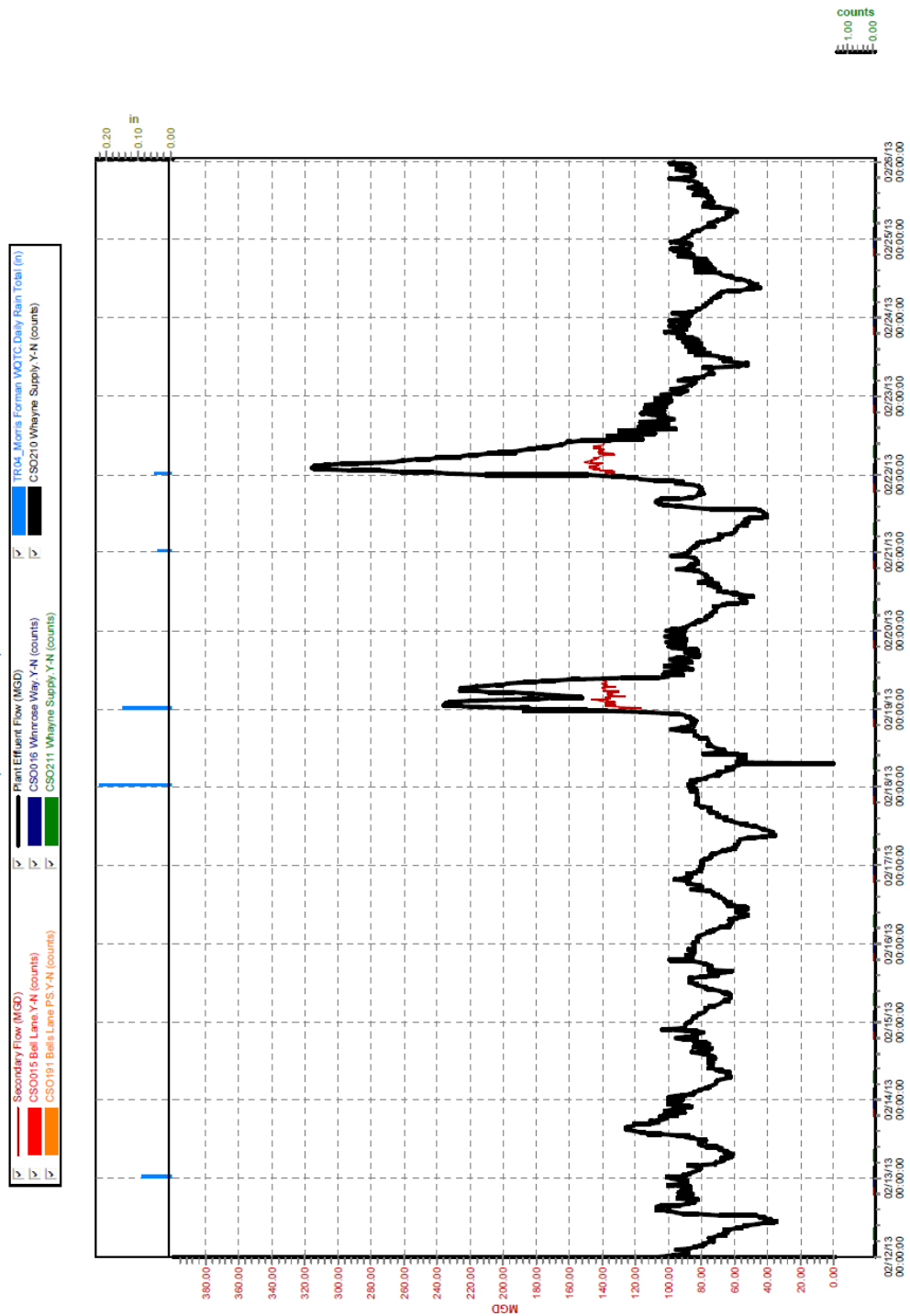
Morris Forman WQTC - Bypass vs. Large CSOs

(01/29/13 to 02/12/13)

- Secondary Flow (MGD)
- CSO015 Bell Lane Y-N (counts)
- CSO191 Bell Lane PS-Y-N (counts)
- Plant Effluent Flow (MGD)
- CSO016 Minrose Way Y-N (counts)
- CSO211 Whayne Supply Y-N (counts)
- TR04_Morris Forman WQTC Daily Rain Total (in)
- CSO210 Whayne Supply Y-N (counts)

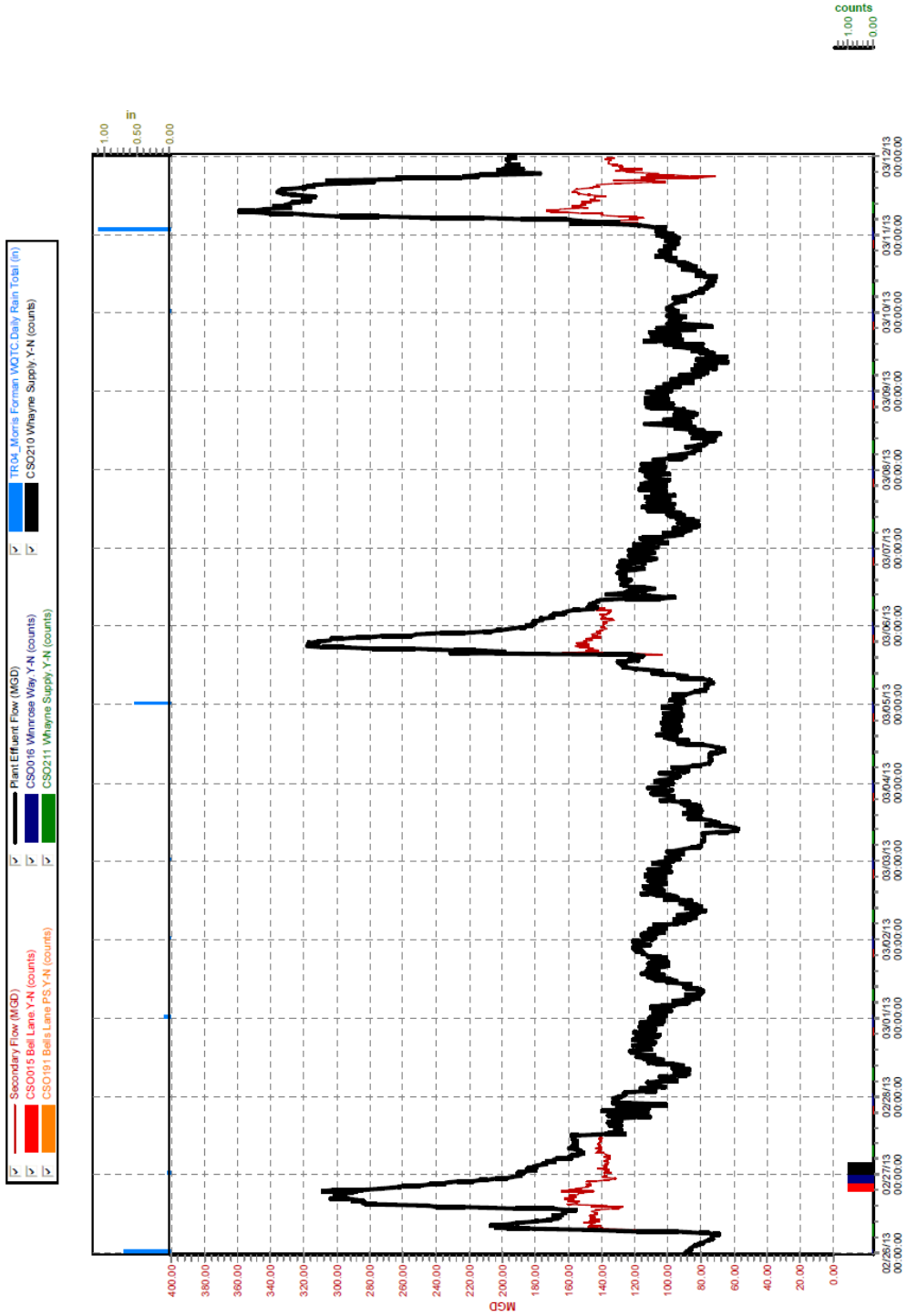


Morris Forman WQTC - Bypass vs. Large CSOs
(02/12/13 to 02/26/13)

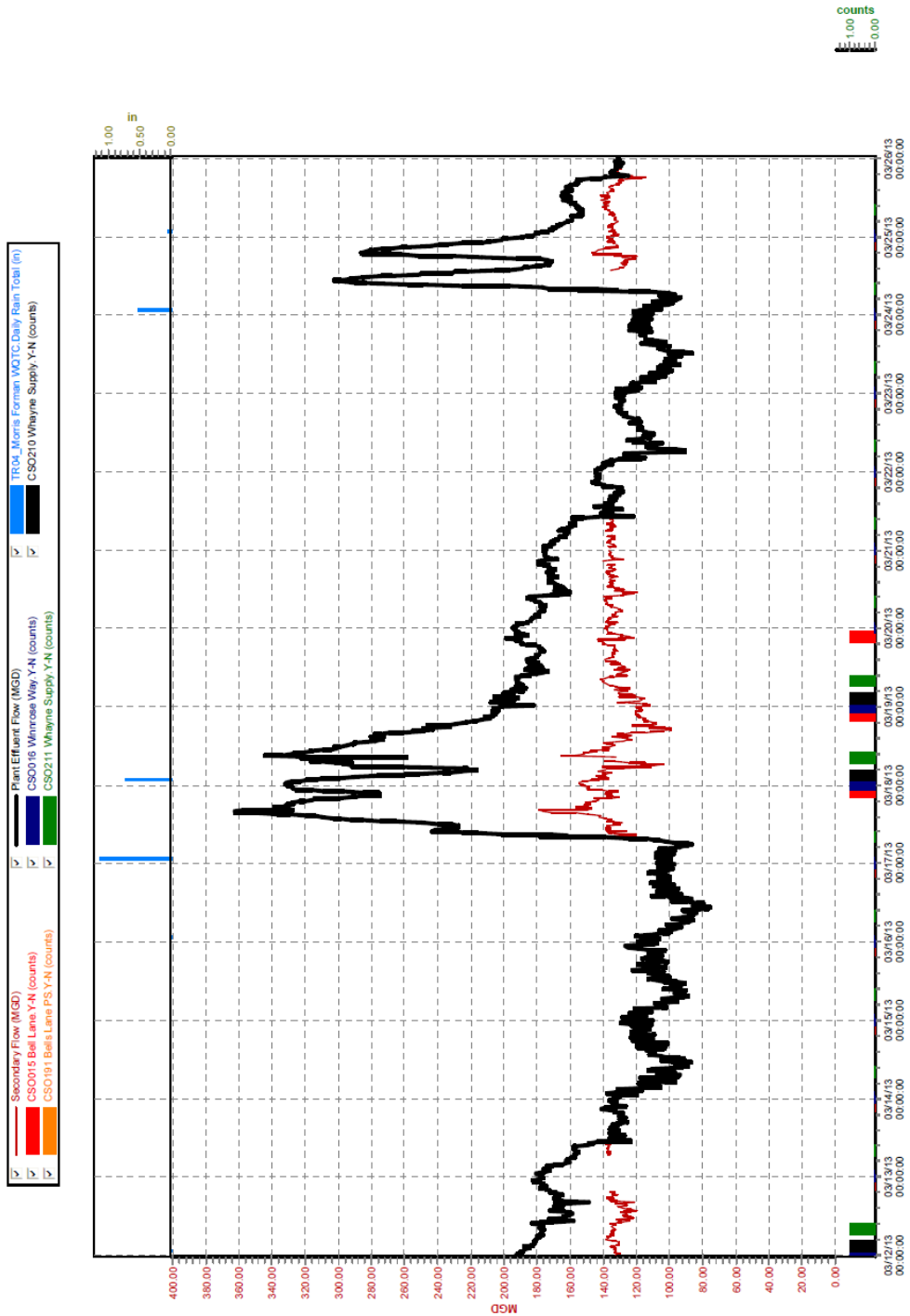


Morris Forman WQTC - Bypass vs. Large CSOs

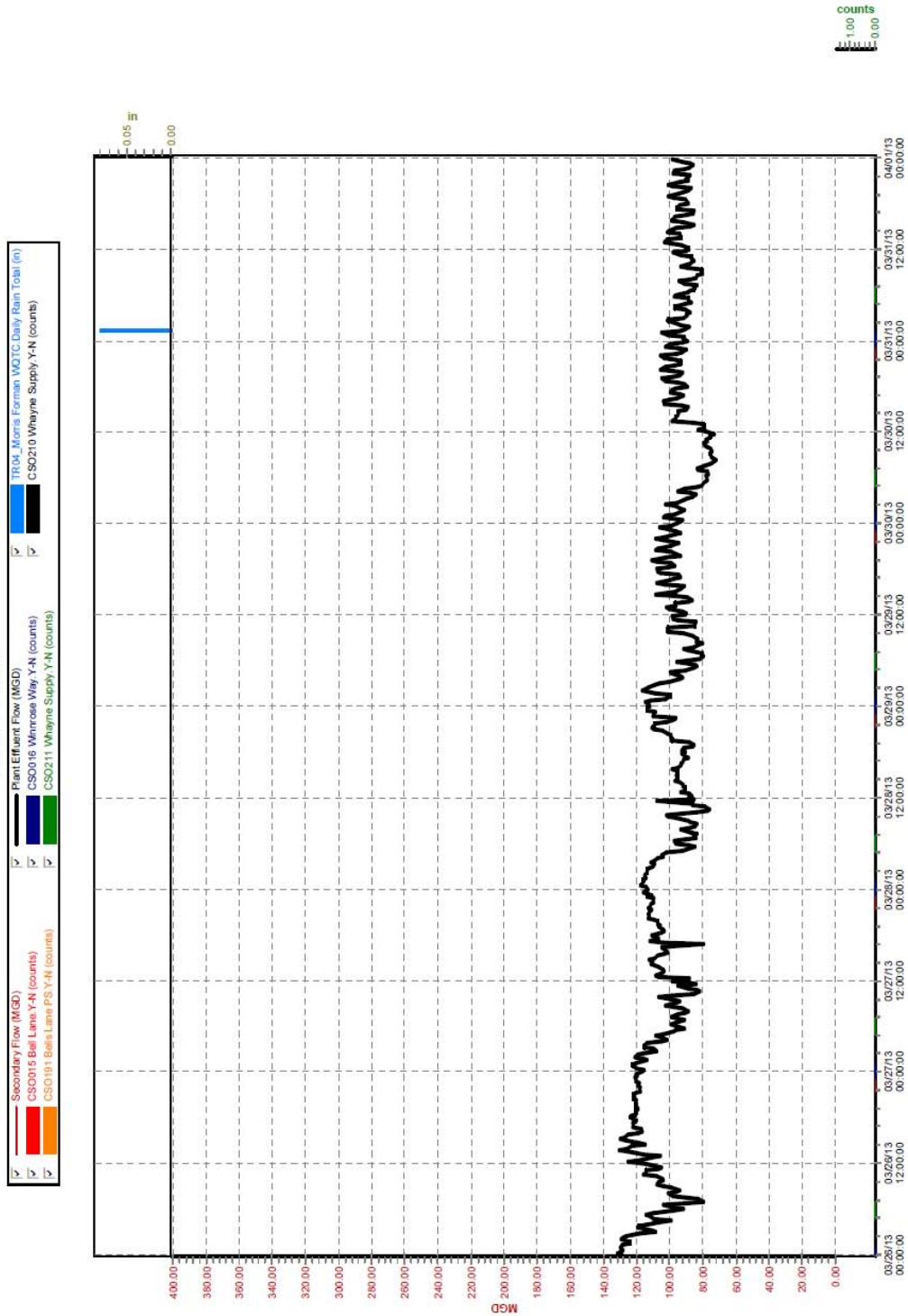
(02/26/13 to 03/12/13)



Morris Forman WQTC - Bypass vs. Large CSOs
(03/12/13 to 03/26/13)



Morris Forman WQTC - Bypass vs. Large CSOs
(03/26/13 to 04/01/13)



There were no KPDES permit violations at Morris Forman WQTC during January, February or March, 2013.

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

- Wet Weather Operational Plan - Wet weather SOP training and revisions to the Morris Forman WQTC Capacity Calculator will be implemented after completion of the secondary clarifier flow meter replacement project.
- Secondary Clarifier Flow Meter Replacement – A project to replace all 20 secondary clarifier influent flow meters is almost complete. All 20 flow meters have been installed and are in service. Performance testing will be completed during the next reporting period.
- RTC System-Wide Optimization Project – Progress was made towards development of control algorithms for integrating the Northern Ditch Diversion into the RTC system, and changing control algorithms for the Southeast Diversion Structure. 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 both 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.



Louisville/Jefferson County
Metropolitan Sewer District



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

Period	
From :	01/01/2013
To :	04/01/2013

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	Ohio River Interceptor	Sneads Branch			Total
2012-094	12-31-12 15:10	1/1/13 9:05	17:55:00	0.19	0.28	TR11	0.00	0.00	0.00	0.30	2.40	0.00	2.70	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization.
2013-001	1/10/13 10:50	1/12/13 2:15	39:25:00	0.75	0.89	TR04	10.60	0.00	1.45	4.00	4.90	0.35	21.30	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization. Moderate intensity storm cells occurring predominately in western reaches of collection system.
2013-002&003	1/12/13 20:15	1/17/13 8:45	108:30:00	2.65	2.87	TR14	29.50	0.00	2.40	3.70	3.30	1.65	40.55	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization. High intensity storm cells (characteristic of 2-year return period) evenly distributed involving multiple storm cells and dewatering between cells.
2013-005	1/27/13 19:10	1/29/13 0:55	29:45:00	0.31	0.39	TR15	0.40	0.00	0.10	1.05	1.80	0.00	3.15	no	SWOR2 manually controlled with gates in open position and minimal available storage utilization.
2013-006	1/30/13 4:10	1/31/13 12:10	32:00:00	0.89	1.04	TR04	18.00	0.00	2.50	1.90	2.10	1.45	25.95	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization. High intensity event (characteristic of 1-year return period) with storm cells occurring predominately in western reaches of collections system with dewatering between cells.
2013-012	2/18/13 21:20	2/19/13 12:15	14:55:00	0.32	0.36	TR11	0.00	0.00	0.00	0.20	1.05	0.00	1.25	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization.
2013-013	2/21/13 20:20	2/22/13 16:25	20:05:00	0.17	0.35	TR12	9.55	0.00	0.05	3.05	2.30	0.05	15.00	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization.
2013-014	2/26/13 4:55	2/27/13 12:05	31:10:00	0.65	0.89	TR13	12.95	0.00	1.40	3.90	3.10	0.05	21.40	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization. Moderate intensity storm cells occurring predominately in western and northern reaches of collection system.
2013-017	3/5/13 5:25	3/6/13 8:30	27:05:00	0.43	0.52	TR04	11.00	0.00	0.00	3.30	2.35	0.00	16.65	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization.
2013-019	3/10/13 23:45	3/13/13 10:30	58:45:00	1.16	1.48	TR15	12.75	0.00	3.25	5.40	4.30	0.85	26.55	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization. Moderate intensity storm cells occurring predominately in the eastern parts of the collection system.
2013-020	3/17/13 4:25	3/21/13 9:55	101:30:00	1.91	2.01	TR15	24.40	0.00	3.10	10.30	7.80	2.35	47.95	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization. High intensity storm event through western and northern reaches of collection system and dewatering between storm cells.
2013-021	3/24/13 4:50	3/25/13 17:25	36:35:00	0.55	0.82	TR11	15.10	0.00	0.95	3.40	4.00	0.10	23.55	no	SWOR2 manually controlled with both gates in open position and minimal available storage utilization.
TOTAL							144.3	0.0	15.2	40.5	39.2	6.9	246.0		

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

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

*** MDS is always manually controlled by operator

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.msprojectwin.org.

The current approved SORP document is now dated February 21, 2012, and can be viewed on the MSD Project WIN website www.msprojectwin.org. Updates to the SORP document were submitted in August 2012, with confirmation of approvals on October 25, 2012. 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 77 suspected or unauthorized discharges through route reconnaissance. Inspection routes were run during rain events as described in the following table:

Route Description	1/11/2013	1/13/2013	1/30/2013	3/11/2013	3/17/2013
Engineering Rain Event SSO Inspection Route		X		X	X
RS Hikes Point SSO Inspection Route	X	X	X	X	X
RS Jeffersontown Siphon Inspection Route		X		X	X
RS Jeffersontown/Fern Creek SSO Inspection Route		X	X	X	X
RS Middle/Muddy Fork SSO Inspection Route		X		X	X

- Due to Capacity related issues, during this reporting period, MSD Metro Operations staff hauled 1,731,800 gallons of sewage. MSD also hauled due to other issues as indicated in the following table:

MSD Hauled Volumes In Gallons (January 1, 2013 - March 31, 2013)				
Problem	January	February	March	Total
CAPACITY	430,500	746,600	554,700	1,731,800
OBSTRUCTION	14,000			14,000
POWER		7,000	14,000	21,000
Total	444,500	753,600	568,700	1,766,800

2.3 Staff Training and Communication

- Reviewed and updated the training documentation for the 2013 first quarter SORP training that included Preparing for overflows and migration from Hansen 7 to Hansen 8.
- Commenced planning for the 2013 second quarter SORP training that will focus on establishing control zones and volume estimation.
- Conducted the following SORP Quarterly training sessions which were attended by 256 employees.

Staff Training Participation - January 1, 2013 - March 31, 2013			
Date	Dept./Area	Module(s)	Attendees
02/06/13	Morris Forman Operations & Maintenance Staff	Preparing For Overflows - Hansen Migration	10
02/06/13	Morris Forman Operations & Maintenance Staff	Preparing For Overflows - Hansen Migration	40
02/06/13	Metro Operations Staff	Preparing For Overflows - Hansen Migration	24
02/07/13	Morris Forman Operations & Maintenance Staff	Preparing For Overflows - Hansen Migration	10
02/07/13	Morris Forman Operations & Maintenance Staff	Preparing For Overflows - Hansen Migration	13
02/07/13	Metro Operations Staff	Preparing For Overflows - Hansen Migration	20
02/07/13	Morris Forman Operations & Maintenance Staff	Preparing For Overflows - Hansen Migration	16
02/08/13	I&FP Staff	Preparing For Overflows - Hansen Migration	20
02/08/13	Eng/RS Staff	Preparing For Overflows - Hansen Migration	31
02/08/13	Morris Forman Operations & Maintenance Staff	Preparing For Overflows - Hansen Migration	3
02/12/13	Eng/RS Staff	Preparing For Overflows - Hansen Migration	37
02/13/13	I&FP Staff	Preparing For Overflows - Hansen Migration	17
02/13/13	Metro Operations Staff	Preparing For Overflows - Hansen Migration	15
Total:			256

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.

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.msdprojectwin.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.

-
- Prospect WQTC Elimination Projects Easement Status - A total of 53 easements have been identified. Final design alignments increased the easement number from the previously reported 43.
 - Acquired 27 of these easements. Details on the easement progress and status is provided below:
 - 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 Int and FM Phase 1, 1 Easements acquired – project under construction.
 - HC Int and FM Phase 2- 3 Easements acquired – project under construction.
 - HC FM Phase 3A- 1 Easements acquired – project under construction.
 - HC FM Phase 3B- 21 Easements in process. Offer letters sent out and under negotiations. Project will bid in the Fall of 2013.
 - Shadow Wood- 2 Easements in process.
 - Hunting Creek North- 3 Easements in process.

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.msdpjprojectwin.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.

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_Weba.pdf

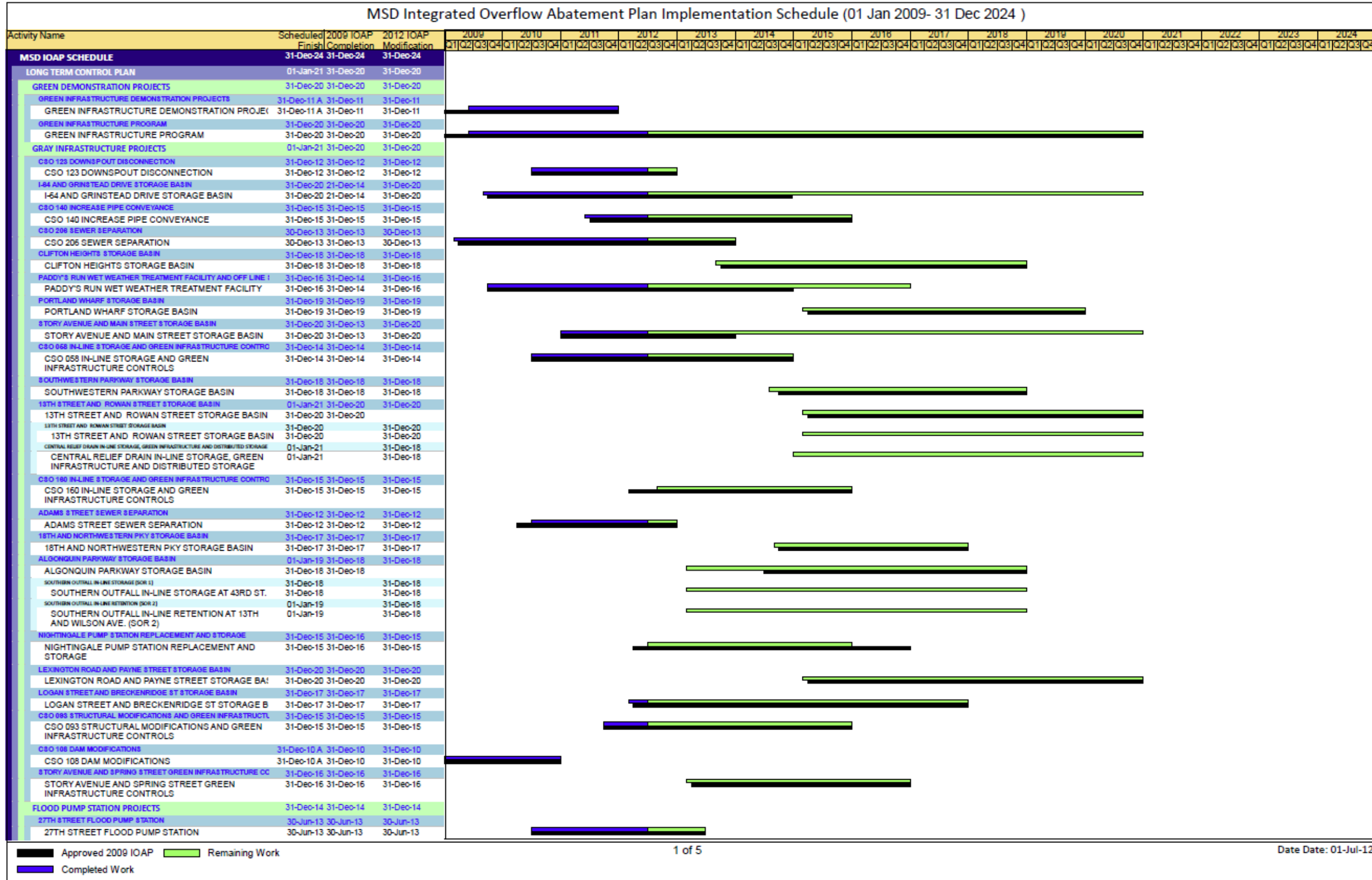
The green program incentives are being reviewed to reflect the values of green projects in CSO areas or regions based on the latest modeling results. The goal is to eventually tie incentives directly to overflow reductions in various CSO regions to promote green projects in the areas that provide the 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.

Continued to develop a green infrastructure website for distribution of information on the programs, incentives, and value to customers. A tentative completion date of August 1, 2013, has been set.

A green infrastructure tracking mechanism in the HANSEN system was utilized 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. Training on this system was facilitated in August 2012.

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.



MSD Integrated Overflow Abatement Plan Implementation Schedule (01 Jan 2009- 31 Dec 2024)																																			
Activity Name	Scheduled Finish	2009 IOAP Completion	2012 IOAP Modification	Year																															
				2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024																
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
34TH STREET FLOOD PUMP STATION	31-Dec-12	31-Dec-12	31-Dec-12	[Gantt bar: 2009 Q1-Q4, 2010 Q1-Q4, 2011 Q1-Q4, 2012 Q1-Q4]																															
4TH STREET FLOOD PUMP STATION	31-Dec-12	31-Dec-12	31-Dec-12	[Gantt bar: 2009 Q1-Q4, 2010 Q1-Q4, 2011 Q1-Q4, 2012 Q1-Q4]																															
8 HAWNEE FLOOD PUMP STATION	30-Jun-13	30-Jun-13	30-Jun-13	[Gantt bar: 2010 Q3-Q4, 2011 Q1-Q2, 2012 Q1-Q2, 2013 Q1-Q2]																															
17TH STREET FLOOD PUMP STATION	31-Dec-14	31-Dec-14	31-Dec-14	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4]																															
SANITARY SEWER DISCHARGE PLAN	31-Dec-24	31-Dec-24	31-Dec-24	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
BEARGRASS CREEK MIDDLE FORK AREA	31-Dec-24	31-Dec-24	31-Dec-24	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
GOOSE CREEK PUMP STATION	31-Dec-24	31-Dec-24	31-Dec-24	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
GOOSE CREEK PS PH1 - DEVONDALE PS WW STORAGE	31-Dec-24	31-Dec-24	31-Dec-24	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
GOOSE CRK PS PH2 - PS & WET WEATHER STORAGE	31-Dec-24	31-Dec-24	31-Dec-24	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
ANCHOR ESTATES- ANCHOR ESTS PS 1 & 2 PS ELIMINATIONS	31-Dec-16	31-Dec-16	31-Dec-16	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
ANCHOR ESTATES- VANNAH PS ELIMINATION	15-Oct-11 A	31-Dec-13	31-Dec-13	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
HURSTBOURNE I&I INVESTIGATION & REHABILITATION	27-Dec-11 A	31-Dec-11	31-Dec-11	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE, AND UMFLS DIVERSION 1 - BUECHEL BASIN	31-Dec-13	31-Dec-13	31-Dec-13	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
MIDDLE FORK RELIEF INTERCEPTOR, WET WEATHER STORAGE, AND UMFLS DIVERSION 2 PS & WET WEATHER STORAGE	31-Dec-23	31-Dec-23	31-Dec-23	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
LITTLE CEDAR CREEK INTRECEPTOR IMPROVEMENTS	31-Dec-24	31-Dec-24	31-Dec-24	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
IDLEWOOD INLINE STORAGE	31-Dec-23	31-Dec-23	31-Dec-23	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
BARDSTOWN RD PS IMPROVEMENTS	31-Dec-21	31-Dec-21	31-Dec-21	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
FAIRMOUNT RD PS IMPROVEMENTS	31-Dec-14	31-Dec-23	31-Dec-23	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
FAIRMOUNT STORAGE BASIN	01-Jan-15	31-Dec-15	31-Dec-15	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
HAZELWOOD PS I&I INVESTIGATION & REHABILITATION	30-Jun-11 A	30-Jun-11	30-Jun-11	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
SONNE PUMP STATION I&I INVESTIGATION & REHABILITATION	30-Jun-11 A	30-Jun-11	30-Jun-11	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
CAMP TAYLOR SSES	09-Jul-11 A	31-Dec-11	31-Dec-13	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
CAMP TAYLOR SANITARY SEWER #1A	31-Dec-12	31-Dec-13	31-Dec-13	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
CAMP TAYLOR SANITARY SEWER #1B	31-Dec-13	31-Dec-13	31-Dec-13	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
CAMP TAYLOR SANITARY SEWER #2	31-Dec-13	31-Dec-13	31-Dec-13	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
CAMP TAYLOR #3- SEWER REHABILITATION	31-Dec-17	31-Dec-17	31-Dec-17	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
CAMP TAYLOR #4-SEWER REHABILITATION & REPLACEMENT	31-Dec-23	31-Dec-23	31-Dec-23	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
FLOYDS FORK AREA	01-Apr-10 A	31-Dec-21	01-Apr-10	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
WOODLAND HILL PS DIVERSION	01-Apr-10 A	30-Jun-11	01-Apr-10	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															
ASHBURTON PS IMPROVEMENTS AND DIVERSION	22-Jan-10 A	31-Dec-21	22-Jan-10	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q4, 2013 Q1-Q4, 2014 Q1-Q4, 2015 Q1-Q4, 2016 Q1-Q4, 2017 Q1-Q4, 2018 Q1-Q4, 2019 Q1-Q4, 2020 Q1-Q4, 2021 Q1-Q4, 2022 Q1-Q4, 2023 Q1-Q4, 2024 Q1-Q4]																															

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Activity Name	Scheduled Finish	2009 IOAP Completion	2012 IOAP Modification	2009				2010				2011				2012				2013				2014				2015				2016				2017				2018				2019				2020				2021				2022				2023				2024			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4												
HITE CREEK AREA																																																																			
MEADOW STREAM PS AND FORCE MAIN	31-Dec-12	31-Dec-16	31-Dec-16	[Gantt bar: 2010 Q3-Q4, 2011 Q1-Q2, 2012 Q3-Q4]																																																															
MEADOW STREAM PS AND FORCE MAIN	31-Dec-12	31-Dec-16	31-Dec-16	[Gantt bar: 2010 Q3-Q4, 2011 Q1-Q2, 2012 Q3-Q4]																																																															
KAVANAUGH RD PS IMPROVEMENTS																																																																			
KAVANAUGH RD PS IMPROVEMENTS	31-Dec-24	31-Dec-24	31-Dec-24	[Gantt bar: 2021 Q1-Q2, 2022 Q3-Q4, 2023 Q1-Q2, 2024 Q3-Q4]																																																															
FLOYDSBURG RD 30ES, REHAB AND PUMP STATION UPGRADE	17-Dec-10 A	31-Dec-10	31-Dec-10	[Gantt bar: 2010 Q3-Q4]																																																															
FLOYDSBURG RD SSES, REHAB AND PUMP STATION UPGRADE	17-Dec-10 A	31-Dec-10	31-Dec-10	[Gantt bar: 2010 Q3-Q4]																																																															
INTERIM SSSDP PROJECTS																																																																			
ISSDP BEECHWOOD VILLAGE SANITARY SEWER REPLACEMENT																																																																			
ISSDP BEECHWOOD VILLAGE SANITARY SEWER REPLACEMENT	29-Sep-10 A	27-Apr-11	27-Apr-11	[Gantt bar: 2010 Q3-Q4, 2011 Q1-Q2]																																																															
BEECHWOOD VILLAGE SANITARY SEWER REPLACEMENT (WEST)	29-Sep-10 A	27-Apr-11	27-Apr-11	[Gantt bar: 2010 Q3-Q4, 2011 Q1-Q2]																																																															
BEECHWOOD VILLAGE SANITARY SEWER REPLACEMENT (EAST)	29-Sep-10 A	27-Apr-11	27-Apr-11	[Gantt bar: 2010 Q3-Q4, 2011 Q1-Q2]																																																															
BEECHWOOD VILLAGE SANITARY SEWER REPLACEMENT	29-Sep-10 A	27-Apr-11	27-Apr-11	[Gantt bar: 2010 Q3-Q4, 2011 Q1-Q2]																																																															
SINKING FORK RELIEF SEWER																																																																			
SINKING FORK RELIEF SEWER	23-Dec-09 A	30-Dec-10	23-Dec-09	[Gantt bar: 2009 Q4, 2010 Q1-Q2, 2011 Q3-Q4]																																																															
ISSDP DEREK R GUTHRIE WATER QUALITY TREATMENT CENTER																																																																			
ISSDP DEREK R GUTHRIE WATER QUALITY TREATMENT CENTER	30-Jul-12	31-Dec-11	31-Dec-11	[Gantt bar: 2012 Q1-Q2]																																																															
DEREK R GUTHRIE WQTC WET WEATHER TREATMENT FACILITY	20-May-12 A	31-Oct-12	31-Oct-12	[Gantt bar: 2012 Q1-Q2]																																																															
WCWTP: WW FLOW EQU & TMT	30-Sep-12	31-Oct-12	31-Oct-12	[Gantt bar: 2012 Q3-Q4]																																																															
DRGWQTC: BLOWER PACKAGE	03-Mar-11 A	31-Oct-12	31-Oct-12	[Gantt bar: 2011 Q1-Q2, 2012 Q1-Q2]																																																															
DRGWQTC: WET WEATHER EQUALIZATION BASIN	31-Jul-12	31-Oct-12	31-Oct-12	[Gantt bar: 2012 Q3-Q4]																																																															
ISSDP HIKES LANE INTERCEPTOR/HIGHGATE SPRINGS PS																																																																			
ISSDP HIKES LANE INTERCEPTOR/HIGHGATE SPRINGS PS	30-Oct-12	27-Nov-12	27-Nov-12	[Gantt bar: 2012 Q3-Q4]																																																															
HIKES POINT INTERCEPTOR																																																																			
HIKES POINT INTERCEPTOR	30-Nov-11 A	27-Nov-12	27-Nov-12	[Gantt bar: 2011 Q3-Q4, 2012 Q1-Q2]																																																															
HIKES POINT INTERCEPTOR PHASE 2																																																																			
HIKES POINT INTERCEPTOR PHASE 2	27-Nov-12	27-Nov-12	27-Nov-12	[Gantt bar: 2012 Q3-Q4]																																																															
CARSON & RIBBLE RELIEF																																																																			
CARSON & RIBBLE RELIEF	20-Nov-09 A	27-Nov-12	27-Nov-12	[Gantt bar: 2009 Q4, 2010 Q1-Q2, 2011 Q3-Q4]																																																															
HIKES POINT RELIEF EFFORT																																																																			
HIKES POINT RELIEF EFFORT	31-Oct-12	27-Nov-12	27-Nov-12	[Gantt bar: 2012 Q3-Q4]																																																															
ISSDP NORTHERN DITCH DIVERSION INTERCEPTOR																																																																			
ISSDP NORTHERN DITCH DIVERSION INTERCEPTOR	16-Feb-11 A	31-Jul-11	31-Jul-11	[Gantt bar: 2011 Q1-Q2]																																																															
NORTHERN DITCH DIVERSION INTERCEPTOR																																																																			
NORTHERN DITCH DIVERSION INTERCEPTOR	16-Feb-11 A	31-Jul-11	31-Jul-11	[Gantt bar: 2011 Q1-Q2]																																																															
ISSDP SOUTHEAST DIVERSION STRUCTURE & INTERCEPTOR																																																																			
ISSDP SOUTHEAST DIVERSION STRUCTURE & INTERCEPTOR	28-Sep-12	27-Nov-12	27-Nov-12	[Gantt bar: 2012 Q3-Q4]																																																															
JEFFERSON TOWN AREA																																																																			
JEFFERSON TOWN WQTC ELIMINATION																																																																			
JEFFERSON TOWN WQTC ELIMINATION	01-Jan-16	31-Dec-15	31-Dec-15	[Gantt bar: 2015 Q1-Q2, 2016 Q1-Q2, 2017 Q3-Q4]																																																															
JEFFERSON TOWN WQTC ELIMINATION	31-Dec-15	31-Dec-15	31-Dec-15	[Gantt bar: 2015 Q4, 2016 Q1-Q2, 2017 Q3-Q4]																																																															
JEFFERSON TOWN FORCE MAIN	31-Dec-15	31-Dec-15	31-Dec-15	[Gantt bar: 2015 Q4, 2016 Q1-Q2, 2017 Q3-Q4]																																																															
JEFFERSON TOWN FORCE MAIN	31-Dec-15	31-Dec-15	31-Dec-15	[Gantt bar: 2015 Q4, 2016 Q1-Q2, 2017 Q3-Q4]																																																															
GRAND AVENUE PUMP STATION	31-Dec-15	31-Dec-15	31-Dec-15	[Gantt bar: 2015 Q4, 2016 Q1-Q2, 2017 Q3-Q4]																																																															
GRAND AVENUE PUMP STATION	31-Dec-15	31-Dec-15	31-Dec-15	[Gantt bar: 2015 Q4, 2016 Q1-Q2, 2017 Q3-Q4]																																																															
UPPER BILLOW RD INTERCEPTOR	31-Dec-15	31-Dec-15	31-Dec-15	[Gantt bar: 2015 Q4, 2016 Q1-Q2, 2017 Q3-Q4]																																																															
UPPER BILLOW RD INTERCEPTOR	31-Dec-15	31-Dec-15	31-Dec-15	[Gantt bar: 2015 Q4, 2016 Q1-Q2, 2017 Q3-Q4]																																																															
BILLOW RD INTERCEPTOR SS	01-Jan-16	31-Dec-15	31-Dec-15	[Gantt bar: 2016 Q1, 2017 Q2, 2018 Q3-Q4]																																																															
BILLOW RD INTERCEPTOR SS	01-Jan-16	31-Dec-15	31-Dec-15	[Gantt bar: 2016 Q1, 2017 Q2, 2018 Q3-Q4]																																																															
BILLOW RD PS, FM & INT	31-Dec-12	31-Dec-12	31-Dec-12	[Gantt bar: 2012 Q3-Q4]																																																															
BILLOW RD PS, FM & INT	31-Dec-12	31-Dec-12	31-Dec-12	[Gantt bar: 2012 Q3-Q4]																																																															
CHENOWETH HILLS WQTC ELIMINATION & PS IMPROVEMENTS	31-Dec-15	31-Dec-15	31-Dec-15	[Gantt bar: 2015 Q4, 2016 Q1-Q2, 2017 Q3-Q4]																																																															

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Date Date: 01-Jul-12

MSD Integrated Overflow Abatement Plan Implementation Schedule (01 Jan 2009- 31 Dec 2024)																							
Activity Name	Scheduled Finish	2009 IOAP Completion	2012 IOAP Modification	Year																			
				2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024				
EDSEL PS II INVESTIGATION & REHABILITATION	27-Sep-11 A	30-Sep-11	30-Sep-11																				
CINDERELLA PS ELIMINATION	31-Dec-23	31-Dec-23	31-Dec-23																				
GOVERNMENT CENTER PS ELIMINATION	01-Apr-11 A	31-Dec-24	31-Dec-24																				
AVANTI PS ELIMINATION	28-Jul-09 A	31-Dec-10	31-Dec-10																				
CHARLESWOOD INTERCEPTOR EXTENSION	31-Dec-22	31-Dec-22	31-Dec-22																				
LANTANA PS II INVESTIGATION & REHABILITATION	29-Dec-11 A	31-Dec-11	29-Dec-11																				
LEVEN PS ELIMINATION	31-Dec-22	31-Dec-22	31-Dec-22																				
CAVEN AVENUE WW STORAGE	31-Dec-24	31-Dec-24	31-Dec-24																				
SMALL WWTP AREA	31-Dec-21	31-Dec-21	31-Dec-21																				
RIDING RIDGE PS IMPROVEMENTS	31-Dec-14	31-Dec-14	31-Dec-14																				
LUCAS LN PS INLINE STORAGE	31-Dec-21	31-Dec-21	31-Dec-21																				
ST RENE RD PS INLINE STORAGE	31-Dec-21	31-Dec-21	31-Dec-21																				
LAKE FOREST PS IMPROVEMENTS	31-Dec-12	31-Dec-12	31-Dec-12																				
GUNPOWDER PS INLINE STORAGE	31-Dec-21	31-Dec-21	31-Dec-21																				
FOX HARBOR INLINE STORAGE	31-Dec-21	31-Dec-21	31-Dec-21																				
FAIRWAY VIEW PS IMPROVEMENTS	31-Dec-14	31-Dec-14	31-Dec-14																				
SOUTHEASTERN DIVERSION AREA	31-Dec-23	31-Dec-23	31-Dec-23																				
PARKVIEW ESTATES II INVESTIGATION & REHABILITATION	28-Jun-11 A	30-Jun-11	30-Jun-11																				
SUTHERLAND INTERCEPTOR	31-Dec-23	31-Dec-23	31-Dec-23																				
BEARGRASS INTERCEPTOR REHABILITATION PH 2	14-Dec-10 A	31-Dec-10	31-Dec-10																				

Approved 2009 IOAP
 Remaining Work
 Completed Work

5 of 5

Date Date: 01-Jul-12

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

4.1 Public Notification Program

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

4.2 Public Education Programs

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

During the reporting period, MetroTV aired programs detailing the IOAP Public Input 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 four IOAP meetings to discuss the proposed IOAP 2012 Modification and general project updates. The meetings were held on the following dates at the following venues.
 - January 8, 2013, Shively City Hall, 3920 Dixie Highway
 - January 22, 2013, Kammerer Middle School, 7315 Wesboro Road.
 - January 29, 2013, Shawnee Community Center, 607 S. 37th Street.
 - February 5, 2013, Moore High School, 6415 Outer Loop.
- Facilitated a Wet Weather Team meeting to update Stakeholders on the IOAP progress, public input process, and the IOAP 2012 modification on January 30, 2013, at the MSD Main Office at 700 West Liberty Street.
- Facilitated an IOAP public hearing to receive comments on the proposed IOAP 2012 modification on March 26, 2013, at the MSD Main Office at 700 West Liberty Street.
- Planned a public meeting Friday May 14, 2013, at 6PM, at the Fern Creek High School, to discuss and receive comments on upcoming projects in the IOAP 2012 Modification.

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.msdpowerwin.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**.

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 put the Facilities Plan Update on hold pending determination if areas beyond the Jefferson County boundary will be included in the future service area. Once confirmed, the alternative analysis for both the collection and treatment systems will be finalized and MSD will begin scheduling public outreach meetings. During the next reporting period, MSD expects to complete the Facilities Plan Update document once the service area determination is finalized.

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

5.3.2 Floyds Fork Water Quality Treatment Center

Construction of the Phase 2 Expansion of the Floyds Fork WQTC continued in this reporting period with the structural improvements completed on the outer ring of the Oxidation Ditch, along with testing of Clarifiers No. 3, 4 and 5, and both ultraviolet disinfection channels placed in service. During the next reporting period, the plant's instrumentation and controls will be tested and demonstrated and staff trained on instrumentation, along with final site restoration activities expected to be complete. The expansion will provide 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. During the next reporting period, the draft document will be reviewed by MSD staff and project schedule 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

Staff investigated the use of a salvaged 250 KW generator for use at the site for power outages. The site has frequent power outages due to the older overhead electrical lines in the area. The site was determined too small for the generator. A decision was made to store one of the district's mobile generators on the site. This generator will be set up as a permanent generator to prevent power outages. During the next reporting period, staff will set up the portable generator on site and set up the wiring and transfer switch for full operations.

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 – Continued design of the gravity solution alternative to eliminate the plant. The project scope was expanded to eliminate the Caven Avenue Pump Station. During the next reporting period, MSD will continue design of the elimination project. While subject to constraints of available budget, easement acquisition, and regulatory agency approval, MSD anticipates elimination will be completed by December 31, 2014.

5.4 CMOM Activity Schedule

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

MSD CMOM FY12 Annual Commitments Schedule (01 April 2013 - 30 September 2013)

Date: 24-Apr-13

Activity ID	Activity Name	Physical % Complete	Start	Finish	2013									
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
CMOM FY ANNUAL REPORT COMMITMENTS FINAL														
M-E-9 Infrastructure Rehabilitation														
Annual I/I FY 12 Project (H09205)														
A4540	Camp Taylor 5	100%	15-Feb-12 A	01-Nov-12 A										
A4530	Camp Taylor 4	100%	04-Apr-12 A	01-Nov-12 A										
A4550	Dolphin Rd	100%	01-Aug-12 A	31-Aug-12 A										
A4560	Heller St	100%	01-Aug-12 A	01-Sep-12 A										
A4580	Fegenbush Ln	100%	01-Aug-12 A	01-Sep-12 A										
A4590	Jenlee	100%	01-Aug-12 A	01-Sep-12 A										
A4600	Edgehill Rd	100%	01-Sep-12 A	01-Oct-12 A										
A4930	Penn Station	100%	01-Sep-12 A	08-Feb-13 A										
A5070	Contract Administration	95%	22-Nov-12 A	31-May-13										
A4660	JCTMS MH	100%	01-Dec-12 A	01-Feb-13 A										
A4570	Macon Rd	100%	10-Dec-12 A	31-Jan-13 A										
A5080	Warranty	0%	01-Jun-13*	01-Jun-14										
Annual I/I FY13 Project (H09206)														
A5090	Contract Administration	30%	19-Nov-12 A	31-Dec-13										
A4860	Muddy Fork MH	100%	01-Dec-12 A	31-Dec-12 A										
A4870	Prospect MH	100%	01-Dec-12 A	31-Dec-12 A										
A4880	Macon MH	30%	10-Dec-12 A	30-Apr-13										
A5100	Warranty	0%	02-Jan-14*	02-Jan-15										
Lea Ann Way Interceptor I/I Rehabilitation Project (H12064)														
A3010	Construction	95%	15-Feb-12 A	31-May-13										
A3040	Warranty	0%	01-Jun-13*	01-Jun-14										
Lea Ann Way East - Stonybrook Rehabilitation Project (C08433)														
A3920	Design	100%	16-Jan-12 A	30-Sep-12 A										
A3910	Construction	20%	15-Dec-12 A	13-Jun-13										
Lake Forest Sanitary Sewer Rehabilitation Project (H11303)														
A3350	Design	100%	16-Jan-12 A	30-Jun-12 A										
A3160	Ad	100%	31-Aug-12 A											
A3170	Bid Open	100%	25-Sep-12 A											
A3180	Award	100%	22-Oct-12 A											
A3190	Construction	40%	01-Nov-12 A	30-Aug-13										
Camp Taylor SSR Phase I Project (H09407)														
A3680	Warranty	50%	21-Sep-12 A	21-Sep-13										
Prospect Phase I Sanitary Sewer Rehabilitation Project (H11311)														
A3360	Design	95%	02-Apr-12 A	30-Apr-13										
A3210	Ad	0%	30-May-13*											
A3220	Bid Open	0%	30-Jun-13*											
A3230	Award	0%	15-Jul-13*											
A3240	Construction	0%	01-Aug-13*	30-Jun-14										
Meadow Stream Sanitary Sewer Rehabilitation Project (H11305)														
A4940	Design	95%	02-Apr-12 A	30-Apr-13										
A4890	Ad	0%	01-May-13*											
A4900	Bid Open	0%	01-Jun-13*											
A4920	Award	0%	01-Jul-13*											
A4910	Construction	0%	01-Aug-13*	30-Apr-14										
Lea Ann Way East - Fegenbush Rehabilitation Project (C08433)														

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Date Date: 01-Apr-13

MSD CMOM FY12 Annual Commitments Schedule (01 April 2013 - 30 September 2013)

Date: 24-Apr-13

Activity ID	Activity Name	Physical % Complete	Start	Finish	2013									
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
A3970	Design	100%	16-Jan-12 A	30-Jun-12 A										
A3980	Ad	100%	24-Sep-12 A											
A3990	Bid Open	100%	24-Oct-12 A											
A4000	Award	100%	12-Nov-12 A											
A3960	Construction	40%	01-Dec-12 A	31-Aug-13										
Lea Ann Way East - Fern Creek Rehabilitation Project (C08433)														
A4170	Design	100%	16-Jan-12 A	30-May-12 A										
A4180	Ad	100%	30-Jul-12 A											
A4190	Bid Open	100%	30-Aug-12 A											
A4200	Award	100%	10-Sep-12 A											
A4160	Construction	45%	05-Oct-12 A	01-Aug-13										
Lea Ann Way East - Picadilly Rehabilitation Project (C08433)														
A4270	Design	100%	16-Jan-12 A	30-Sep-12 A										
A4260	Construction	20%	15-Dec-12 A	13-Jun-13										
4th and Oak CIPP Project (H09205)														
A4360	Design	100%	01-Apr-12 A	01-May-12 A										
A4370	Ad	100%	13-Jun-12 A											
A4380	Bid Open	100%	10-Jul-12 A											
A4390	Award	100%	01-Aug-12 A											
A4400	Construction	100%	01-Aug-12 A	31-Dec-12 A										
Caven Avenue Rehab Project (H11304)														
A5250	Design	90%	01-Jan-13 A	30-Apr-13										
A5260	Ad	0%	01-May-13*											
A5270	Bid Open	0%	28-May-13*											
A5280	Award	0%	24-Jun-13*											
A5290	Construction	0%	22-Jul-13*	31-Jan-14										
FY13 ICA Project														
A4410	Planning	85%	01-Jun-12 A	01-Jun-13										
Cedar Creek Phase II SSES (H11313)														
A3120	Planning	100%	01-Jul-11 A	15-Dec-12 A										
Goose Creek PS SSES (H11407)														
A4950	Planning	20%	01-Oct-12 A	30-Jun-14										
Nightingale PS SSES (H11313)														
A5110	Planning	5%	01-Feb-13 A	30-Jun-14										
Pump Station Operations Programs														
O-A-2 Emergency Operation Programs														
Trinity Homes Pump Station Emergency Generator & Access Road (H11440)														
A2020	Design	100%	23-Mar-11 A	01-Dec-12 A										
A2030	Ad	100%	24-Apr-12 A											
A2300	Bid Open	100%	08-May-12 A											
A2040	Award	100%	09-Aug-12 A											
A2050	Construction	100%	09-Aug-12 A	16-Jan-13 A										
A2310	Warranty	25%	17-Jan-13 A	14-Jan-14										
Trinity Homes Pump Station Roof Hatch (H11440)														
A4610	Design	100%	25-Jul-12 A	15-Oct-12 A										
A4620	Ad	100%	21-Mar-13 A											
A4650	Bid Open	0%	17-Apr-13*											
A4630	Award	0%	24-Apr-13*											

MSD CMOM FY12 Annual Commitments Schedule (01 April 2013 - 30 September 2013)

Date: 24-Apr-13

Activity ID	Activity Name	Physical % Complete	Start	Finish	2013									
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
A4640	Construction	0%	24-Apr-13*	15-Aug-13										
Northern Ditch Diversion Structure Flow Meter Manhole Project (H13033)														
A4680	Award	100%	05-Sep-12 A	01-May-14										
A4700	Bid Open	100%	21-Sep-12 A											
A4670	Ad	100%	15-Oct-12 A											
A4690	Construction	99%	15-Oct-12 A	30-Apr-13										
A5120	Warranty	0%	01-May-13*	01-May-14										
34th Street FPS Gate Actuator Replacement Project (H09352)														
A4800	Design	100%	01-Jan-12 A	30-May-12 A										
A4760	Ad	100%	15-Jun-12 A											
A4790	Bid Open	100%	29-Jun-12 A											
A4770	Award	100%	26-Jul-12 A											
A4780	Construction	100%	26-Jul-12 A	13-Nov-12 A										
A5130	Warranty	0%	11-Nov-13*	11-Nov-14										
Royaster Basin Access Road Project (H09365)														
A4310	Design	100%	26-Mar-12 A	31-May-13 A										
A4320	Ad	100%	15-Jul-12 A											
A4350	Bid Open	100%	15-Aug-12 A											
A4330	Award	100%	01-Sep-12 A											
A4340	Construction	99%	18-Sep-12 A	31-May-13										
A5200	Warranty	0%	01-Jun-13*	01-Jun-14										
Royaster Basin Generator Project (H09365)														
A4810	Design	50%	26-Mar-12 A	31-May-13										
A4820	Ad	0%	01-Jun-13*											
A4850	Bid Open	0%	01-Jul-13*											
A4830	Award	0%	01-Aug-13*											
A4840	Construction	0%	01-Sep-13*	31-Dec-13										
Prospect Point Pump Station Access Road (H13084)														
A4420	Design	100%	16-Jul-12 A	26-Nov-12 A										
A4430	Ad	100%	29-Jan-13 A											
A4440	Bid Open	100%	15-Feb-13 A											
A4460	Construction	99%	15-Mar-13 A	30-Apr-13										
A4450	Award	100%	15-Mar-13 A											
A5140	Warranty	0%	01-May-13*	01-May-14										
Brandies FPS Ventilation Modifications (H09352)														
A5010	Design	100%	01-Jun-12 A	31-Mar-13 A										
A5040	Award	0%	01-Apr-13*											
A5030	Bid Open	0%	01-May-13*											
A5020	Ad	0%	15-May-13*											
A5050	Construction	0%	15-May-13*	13-Aug-13										
Valley Village PS Header Piping Improvements Project (H09352)														
A4960	Design	100%	01-Jun-12 A	31-Oct-12 A										
A4970	Ad	100%	23-Jan-13 A											
A4980	Bid Open	100%	01-Feb-13 A											
A4990	Award	100%	13-Mar-13 A											
A5000	Construction	20%	13-Mar-13 A	30-Jun-13										
4th Street FPS Gate and Switch Gear Replacement Project (F12095)														
A5150	Design	50%	04-Jan-13 A	30-Jun-13										

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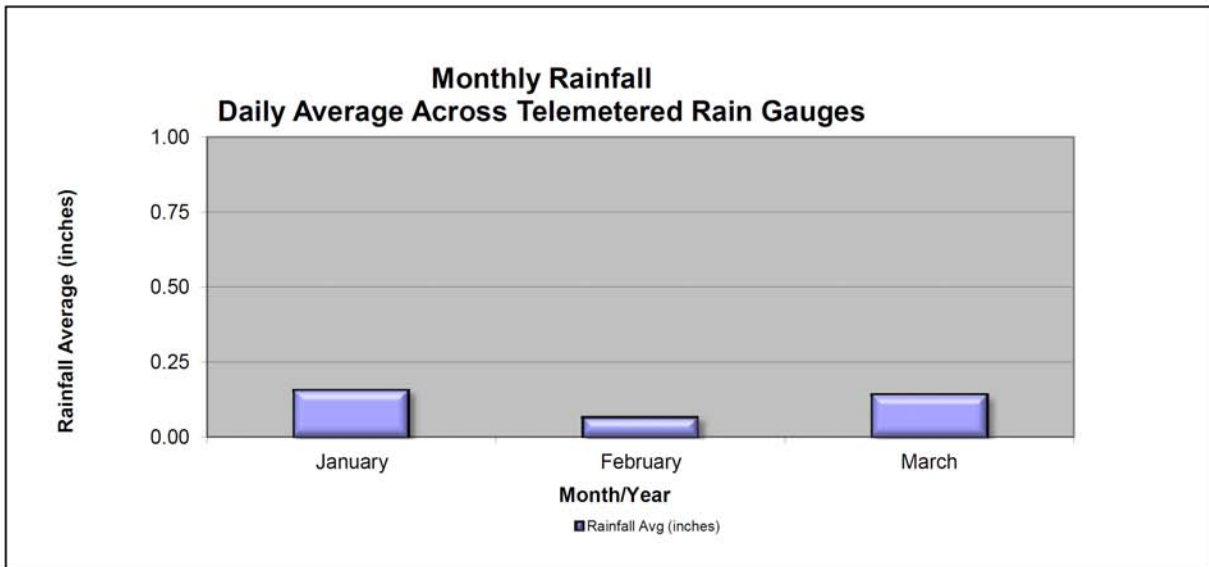
Date Date: 01-Apr-13

MSD CMOM FY12 Annual Commitments Schedule (01 April 2013 - 30 September 2013)					Date: 24-Apr-13									
Activity ID	Activity Name	Physical % Complete	Start	Finish	2013									
					Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
A5160	Ad	0%	01-Jul-13*											
A5170	Bld Open	0%	01-Aug-13*											
A5180	Award	0%	01-Sep-13*											
A5190	Construction	0%	15-Sep-13*	30-Apr-14										
Shannon Run PS Elimination Project (B13132)			16-Jan-13 A	01-Jun-14										
A5210	Ad	100%	16-Jan-13 A		♦									
A5220	Bld Open	100%	31-Jan-13 A			♦								
A5230	Award	100%	11-Feb-13 A				♦							
A5240	Construction	95%	15-Feb-13 A	31-May-13										
A5300	Warranty	0%	01-Jun-13*	01-Jun-14										
CPE/CPE Treatment Plant Activities			01-Mar-12 A	30-Sep-13										
CMOM CPE/CCP FY11 - CL2 and SO2 Flow Pacing (H09360)			01-Jun-12 A	11-Sep-13										
A3440	Design	100%	01-Jun-12 A	30-Oct-12 A										
A3400	Ad	0%	15-Jun-13*											
A3410	Bld Open	0%	15-Jul-13*											
A3430	Award	0%	15-Aug-13*											
A3420	Construction	0%	15-Aug-13*	11-Sep-13										
Morris Forman WWTP Sampling Manholes (H09374)			01-Sep-12 A	30-Sep-13										
A4750	Design	100%	01-Sep-12 A	28-Feb-13 A										
A4710	Ad	0%	01-May-13*											
A4740	Bld Open	0%	15-May-13*											
A4720	Award	0%	01-Jun-13*											
A4730	Construction	0%	01-Jul-13*	30-Sep-13										
Hillridge WTP Diversion Project (A13070)			04-Jun-12 A	24-Oct-12 A										
A4490	Ad	100%	04-Jun-12 A											
A4500	Bld Open	100%	27-Jun-12 A											
A4510	Award	100%	15-Aug-12 A											
A4520	Construction	100%	15-Aug-12 A	24-Oct-12 A										
Morris Forman Secondary Flume Replacement (H12047)			01-Mar-12 A	01-Aug-13										
A3250	Design	100%	01-Mar-12 A	01-Jun-12 A										
A3290	Ad	100%	14-Jul-12 A											
A3260	Bld Open	100%	14-Aug-12 A											
A3270	Construction	80%	12-Sep-12 A	01-Aug-13										
A3280	Award	100%	12-Sep-12 A											
Morris Forman Secondary Flow Meters (H12046)			01-Mar-12 A	30-Apr-13										
A3340	Design	100%	01-Mar-12 A	07-Jul-12 A										
A3300	Ad	100%	04-Aug-12 A											
A3310	Bld Open	100%	14-Sep-12 A											
A3330	Award	100%	11-Oct-12 A											
A3320	Construction	99%	21-Oct-12 A	30-Apr-13										
Berrytown Tank Rehabilitation (H09374)			01-Mar-13 A	30-Jul-13										
A5350	Design	5%	01-Mar-13 A	15-May-13										
A5310	Ad	0%	15-May-13*											
A5320	Bld Open	0%	01-Jun-13*											
A5340	Award	0%	15-Jun-13*											
A5330	Construction	0%	01-Jul-13*	30-Jul-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)

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, 2012, through June 30, 2013, and will be posted on the Project WIN website. During this quarter, 153 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
Bypass At WQTC	2	12	14
Lack of System Capacity	0	121	121
Mechanical Failure	0	2	2
Obstruction-Not Grease or Root	1	0	1
Pumped Overflow	0	5	5
Roots	1	1	2
Structural Failure	0	1	1
Utility Damage	2	0	2
WQTC Process Upset	1	0	1
Total	7	146	153

6.2.2 Overflows to Ground (EXT)

Recorded information related to overflows to the ground that did not reach waters of the United States for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows will be included in the Annual Report for the period of July 1, 2012, through June 30, 2013.

6.2.3 Overflows to Interior (INT)

Recorded information related to overflows to building interiors for the reporting period. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. These overflows, that are the result of an issue in the main line, will be included in the Annual Report for the period of July 1, 2012, through June 30, 2013.

6.2.4 Dry Weather CSOs

Recorded information related to dry weather overflows from permitted combined sewer overflow outfalls. This information is entered and maintained in Hansen utilizing procedures reviewed and improved through efforts associated with various components of the Amended Consent Decree. A detailed report of these overflows will be included in the Annual Report for the period of July 1, 2012, through June 30, 2013. 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 - January 1, 2013 - March 31, 2013					
CSO	Type of Discharge	Date/Time	Problem	Cause	Volume (Gal)
CSO117	DISDW	1/2/13 10:15 PM	UTILITY DAMAGED MSD ASSET	LWC WATER MAIN BREAK	13,750 GAL
CSO149	DISDW	1/2/13 9:45 PM	UTILITY DAMAGED MSD ASSET	LWC WATER MAIN BREAK NEAR CSO LOCATION	60,142 GAL

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.

- Shannon Run PS Elimination – Completed March 27, 2013 – Eliminated the following SSOs: MSD1203-PS.
- Hikes Point Interceptor Ph1 and Hikes Point Relief – Completed November 27, 2012 – Eliminated the following SSOs: 18370, 48888, 48886, 18297, 18299, 48885, 73111.

6.5 Gravity Line Preventive Maintenance

Each quarter, data and statistics relating to the cleaning, inspection, and maintenance of sewer assets performed under the Gravity Line Preventive Maintenance (GLPM) are reported. The following data was compiled for the period of January 1, 2013, through March 31, 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 Planned GLPM Performance With Targets							
	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Total	Target/ qtr	% Complete of Annual Target
Combined Sewer Area							
Catch Basins Cleaned CSO Area - PM	6,261	5,439	5,300	7,165	24,165	4,460	100%
CSO Inspections	1,321	918	1,324	1,310	4,873	1,272	70%
Sanitary Sewer Area							
Catch Basins Cleaned SSO Area - PM	1,987	86	2,773	1,561	6,407	1,144	97%
County Wide							
Sewer Main Inspections MSD Crews (LF)	179,018	167,171	180,054	56,434	582,677	198,000	51%
Sewer Main Inspections Contractor (LF)	545,877	0	132,891	98,656	777,424	198,000	29%
Total Inspections (LF)	724,895	167,171	312,945	155,090	1,360,101	396,000	40%

Rolling Quarterly Unplanned GLPM Performance					
	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Total
Combined Sewer Area					
Catch Basins Cleaned CSO Area - UM	375	308	351	183	1,217
CSO Debris Removal WO	121	101	108	112	442
Chemical Root Treatment CSO Area (LF)	0	0	28,730	2,586	31,316
Root Cutting CSO Area (LF)	36,496	2,920	26,604	570	66,590
Flushing and Cleaning of Sewer Mains CSO Area (LF)	10,190	11,319	22,290	3,382	47,181
Sanitary Sewer Area					
Catch Basins Cleaned SSO Area - UM	93	32	84	91	300
Chemical Root Treatment SSO Area (LF)	2,853	0	64,436	48,858	116,147
Root Cutting SSO Area (LF)	40,751	220	39,535	23,945	104,451
Flushing and Cleaning of Sewer Mains SSO Area (LF)	31,346	3,852	53,487	16,033	104,718

6.6 Water Quality Treatment Center Bypasses

6.6.1 Bypass Events

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

Bypass Events - January 1, 2013 - March 31, 2013			
Type of Bypass	Date	ID	Facility Name
Dry Weather	1/3/13	MSD0228	MCNEELY LAKE
Wet Weather	1/13/13	MSD0294	FLOYDS FORK
Wet Weather	1/13/13	MSD0209	BERRYTOWN
Wet Weather	1/13/13	MSD0263	CHENOWETH HILLS
Wet Weather	1/13/13	MSD0263	CHENOWETH HILLS
Wet Weather	1/13/13	MSD0294	FLOYDS FORK
Wet Weather	1/13/13	MSD0263	CHENOWETH HILLS
Dry Weather	1/19/13	MSD0278	MORRIS FORMAN
Wet Weather	3/17/13	MSD0255	JEFFERSONTOWN
Wet Weather	3/17/13	MSD0255	JEFFERSONTOWN
Wet Weather	3/18/13	MSD0209	BERRYTOWN
Wet Weather	3/18/13	MSD0209	BERRYTOWN
Wet Weather	3/18/13	MSD0209	BERRYTOWN
Wet Weather	3/20/13	MSD0209	BERRYTOWN

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 January 1, 2013, and March 31, 2013.

Bypass Summary - January 1, 2013 to March 31, 2013		
DATE/TIME	BYPASS DESCRIPTION	FAILURE RESOLUTION
Capacity (CAP)		
1/13/13 11:45 AM	FLOYDS FORK - WO# 1623234 - OVERFLOW - CAPACITY - RAIN EVENT CAUSED A LACK OF SYSTEM CAPACITY - SECONDARY (CAP)	LACK OF SYSTEM CAPACITY DURING RAIN EVENT DUE TO PLANT EXPANSION. APPROXIMATELY 1.072 MG BYPASSED SECONDARY TREATMENT. ALL FLOW RECEIVED PRIMARY AND UV DISINFECTION. DESIGN FLOW = 3.25 MGD, PEAK DURING BYPASS = 12.84MGD, TOTAL DAILY FLOW = 10.899 MG. PROCESS ADJUSTMENT TO OXIDATION DITCH. FLOW DECREASED AND BYPASS STOPPED.
1/13/13 4:05 PM	CHENOWETH HILLS - WO# 1623302 - OVERFLOW - CAPACITY - SURGE TANK FULL; DISCHARGE PIPE MIXING WITH CLARIFIER EFFLUENT(CAP)	SURGE TANK FLOWED INTO EFFLUENT LINE RESULTING IN BYPASS. SURGE TANK LINE TO EFFLUENT PLUGGED TO PREVENT RECURRENCE 1/13/2013. IF OPERATIONAL NEEDS FOR RESOURCES ALLOW, MSD WILL HAUL WASTEWATER FROM THIS WQTC DURING SIGNIFICANT RAIN EVENTS.
1/13/13 4:45 PM	BERRYTOWN - WO# 1623301 - OVERFLOW - CAPACITY - LACK OF SYSTEM CAPACITY – PLANT AERATION BASIN(CAP)	HEAVY RAIN CAUSED ELEVATED WATER LEVELS IN PLANT TANKS. APPROXIMATELY 303,750 GALLONS OF WATER OVERFLOWED PLANT AERATION BASIN. FLOW RECEIVED PRIMARY TREATMENT. APPROXIMATION OF TOTAL PLANT FLOWS COULD NOT BE CALCULATED AS FLOW EXCEEDED PLANT MEASUREMENT CAPACITY. IF OPERATIONAL NEEDS FOR RESOURCES ALLOW, MSD WILL HAUL WASTEWATER FROM THIS WQTC DURING SIGNIFICANT RAIN EVENTS.

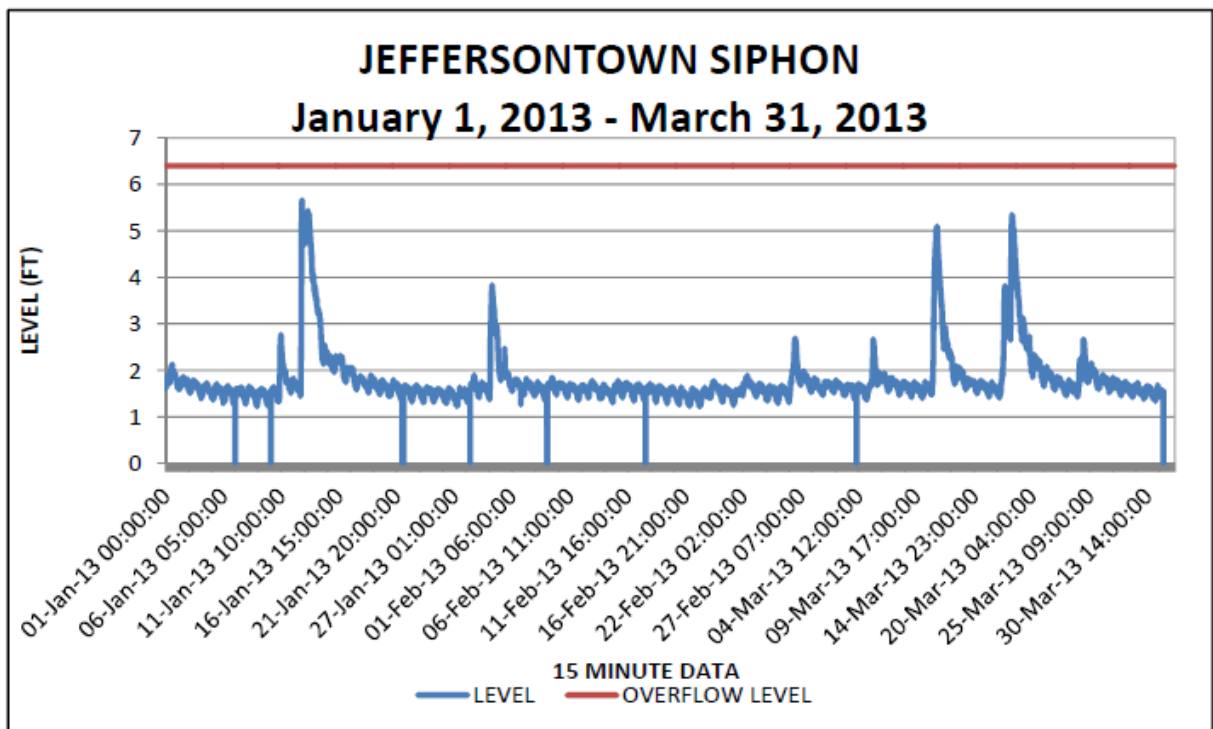
<p>1/13/13 7:40 PM</p>	<p>CHENOWETH HILLS - WO# 1623346 - OVERFLOW - CAPACITY - LACK OF CAPACITY IN THE CHLORINE TANK(CAP)</p>	<p>HEAVY RAIN CAUSED ELEVATED WATER LEVELS IN PLANT TANKS. APPROXIMATELY 26,700 GALLONS OF WATER OVERFLOWED PLANT CHLORINE CONTACT CHAMBER. FLOW RECEIVED PRIMARY AND SECONDARY TREATMENT. PEAK FLOW DURING THIS EVENT WAS 1.359 MG. DESIGN FLOW IS 200,000 GPD. IF OPERATIONAL NEEDS FOR RESOURCES ALLOW, MSD WILL HAUL WASTEWATER FROM THIS WQTC DURING SIGNIFICANT RAIN EVENTS.</p>
<p>3/17/13 6:11 PM</p>	<p>JEFFERSONTOWN - WO# 1656899 - OVERFLOW - CAPACITY - LACK OF SYSTEM CAPACITY – PLANT NO. 1 AERATION TANK NO. 7(CAP)</p>	<p>AERATION TANK NO. 7 ON PLANT NO. 1 OVERFLOWED DUE TO HEAVY RAIN AND HIGH FLOW. APPROXIMATELY 4500 GALLONS OVERFLOWED TO GROUND. PEAK FLOW AT TIME OF OVERFLOW = 12.02 MGD. FLOW THROUGH PLANT 1 = 180683. IMPLEMENTED WET WEATHER SOP.</p>
<p>3/17/13 7:10 PM</p>	<p>JEFFERSONTOWN - WO# 1656898 - OVERFLOW - CAPACITY - LACK OF SYSTEM CAPACITY - EFFLUENT(CAP)</p>	<p>SOLIDS LEFT PLANT VIA EFFLUENT. 10,000 GALLONS CONTAINING SOLIDS DISCHARGED TO EFFLUENT. PEAK FLOW AT TIME OF OVERFLOW = 12.02 MGD. FLOW THROUGH PLANT 2 = .164 MGD. IMPLEMENTED WET WEATHER SOP (EXTENDED DURATION).</p>
<p>3/18/13 2:37 PM</p>	<p>BERRYTOWN - WO# 1657583 - OVERFLOW - CAPACITY - LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT – CLARIFIER 1(CAP)</p>	<p>CLARIFIER 1 - HEAVY RAIN CAUSED ELEVATED WATER LEVELS IN PLANT TANKS. APPROX 32,650 GALLONS OF WATER OVERFLOWED PLANT CLARIFIER NO. 1. FLOW RECEIVED PRIMARY AND SECONDARY TREATMENT. APPROXIMATE TOTAL PLANT FLOWS: 3/18 = .175MGD, 3/19 = .330MGD. IF OPERATIONAL NEEDS FOR RESOURCES ALLOW, MSD WILL HAUL WASTEWATER FROM THIS WQTC DURING SIGNIFICANT RAIN EVENTS.</p>

3/18/13 2:37 PM	BERRYTOWN - WO# 1657585 - OVERFLOW - CAPACITY - LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT – CLARIFIER 2 (CAP)	CLARIFIER 2 - HEAVY RAIN CAUSED ELEVATED WATER LEVELS IN PLANT TANKS. APPROXIMATELY 32,650 GALLONS OF WATER OVERFLOWED PLANT CLARIFIER NO. 2. FLOW RECEIVED PRIMARY AND SECONDARY TREATMENT. APPROX TOTAL PLANT FLOWS: 3/18 = .175MGD, 3/19 = .330MGD. IF OPERATIONAL NEEDS FOR RESOURCES ALLOW, MSD WILL HAUL WASTEWATER FROM THIS WQTC DURING SIGNIFICANT RAIN EVENTS.
3/18/13 2:37 PM	BERRYTOWN - WO# 1657587 - OVERFLOW - CAPACITY - LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT - DIGESTER(CAP)	DIGESTER - HEAVY RAIN CAUSED ELEVATED WATER LEVELS IN PLANT TANKS. APPROX 48,975 GALLONS OF WATER OVERFLOWED THE DIGESTER. FLOW RECEIVED PRIMARY AND SECONDARY TREATMENT. APPROX TOTAL PLANT FLOWS: 3/18 = .175MG, 3/19 = .330MG. IF OPERATIONAL NEEDS FOR RESOURCES ALLOW, MSD WILL HAUL WASTEWATER FROM THIS WQTC DURING SIGNIFICANT RAIN EVENTS.
3/20/13 9:55 PM	BERRYTOWN - WO# 1658588 - OVERFLOW - EQ FAIL ELECTRICAL - PUMP CONTROLLER SWITCH FAILURE DUE TO TURBULENCE FROM HIGH FLOWS – INFLUENT PS (CAP)	HIGH FLOWS CAUSED TURBULENCE AT INFLUENT PS, WHICH INTERFERED WITH LEVEL CONTROLLER. LEVEL CONTROL DEVICE CHANGED FROM TILT BULB TO HRYDROSTATIC CONTROLLER 3/26/2013. NO BYPASS ASSOCIATED WITH THIS FAILURE ANTICIPATED.
Facility Failure (Mechanical - MCH, Electrical - ELE, Structural - SRT)		
1/13/13 7:40 PM	CHENOWETH HILLS - WO# 1623401 - OVERFLOW - EQ FAIL STRUCTURAL - EFFLUENT PIPE TO EFFLUENT PUMP STATION FAILED (SRT)	CONTRACTOR REPAIRED STRUCTURAL FAILURE 1/14/2013.

<p>1/13/13 10:19 PM</p>	<p>FLOYDS FORK - WO# 1623398 - OVERFLOW - EQ FAIL ELECTRICAL - UV FAILURE (ELE)</p>	<p>NEW UV SYSTEM AS PART OF PLANT EXPANSION SHUTDOWN IN AUTO MODE DUE TO COMMUNICATION PROBLEM. 33,937 GALLONS DID NOT RECEIVE UV DISINFECTION. FLOW RECEIVED ALL OTHER TREATMENT. RESTARTED UV SYSTEM AND PLACED IN HAND MODE. SYSTEM WILL NOT SHUTDOWN DUE TO COMMUNICATION FAILURES IN HAND MODE 1/13/2013. CONTRACTOR INVESTIGATING FAILURE.</p>
<p>1/19/13 3:05 PM</p>	<p>MORRIS FORMAN - WO# 1627275 - OVERFLOW - EQ FAIL ELECTRICAL - BIOTOWER PUMP FAILURE (ELE)</p>	<p>BIOTOWER PUMPS SHUT DOWN UNEXPECTEDLY CAUSING APPROXIMATELY 200 GALLONS OF PARTIALLY TREATED WASTEWATER TO ENTER RIVER VIA STORM DRAIN. TRENCH DRAIN HAD BEEN CONSTRUCTED BUT SMALL AMOUNT OF FLOW TRAVELLED THROUGH UNDERGROUND CONDUIT AND SURCHARGED INTO STORM DRAIN DOWNSTREAM. INVESTIGATION REVEALED THE PROCESSOR IN THE PUMP DRIVE FAULTED AND WAS REPLACED 3/20/2013. NO FURTHER BYPASSES DUE TO THIS FAILURE ANTICIPATED.</p>
External Power failures (LGE Related-PWR)		
	<p>No bypasses of this category occurred during the reporting period.</p>	<p>N/A</p>
Human Error (OPN)		
<p>1/3/13 3:30 PM</p>	<p>MCNEELY LAKE - WO# 1619146 - OVERFLOW - HUMAN ERROR - OPERATOR ERROR. PUMP SELECTOR SWITCH LEFT IN OFF POSITION. (OPN)</p>	<p>OPERATIONS PERSONNEL TO BE RE-TRAINED TO PREVENT REOCCURRENCE. TRAINING TO BE COMPLETED BY 4/26/2013.</p>
Utility Damage		
	<p>No bypasses of this category occurred during the reporting period.</p>	<p>N/A</p>

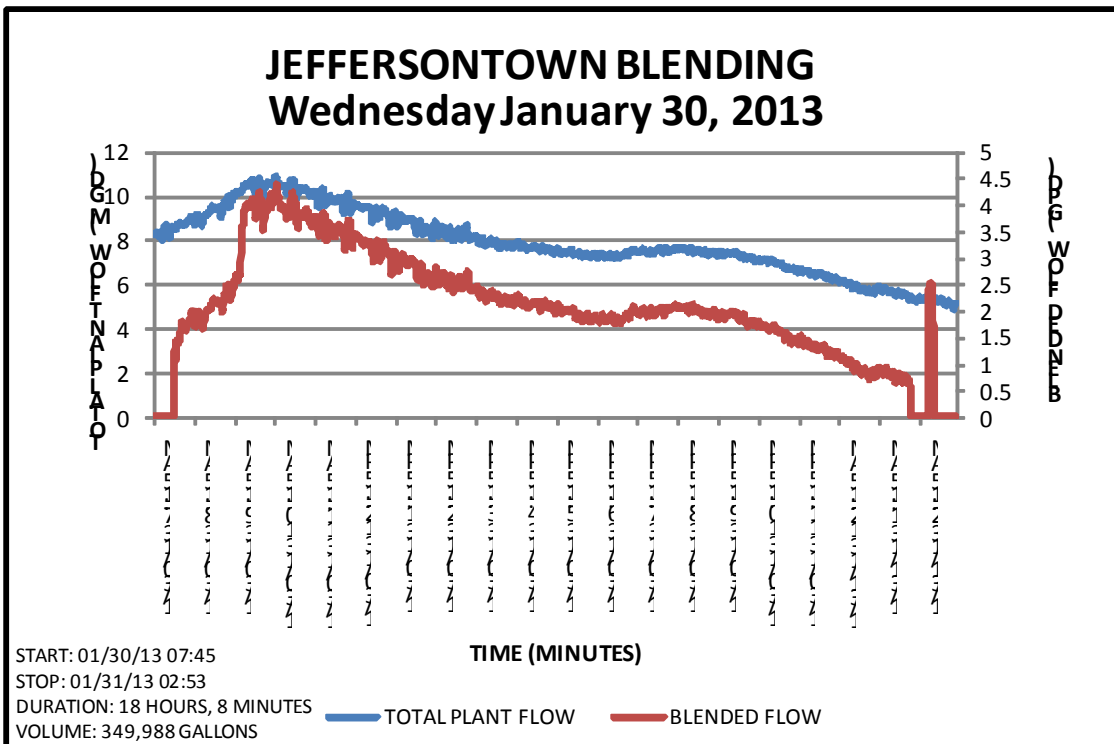
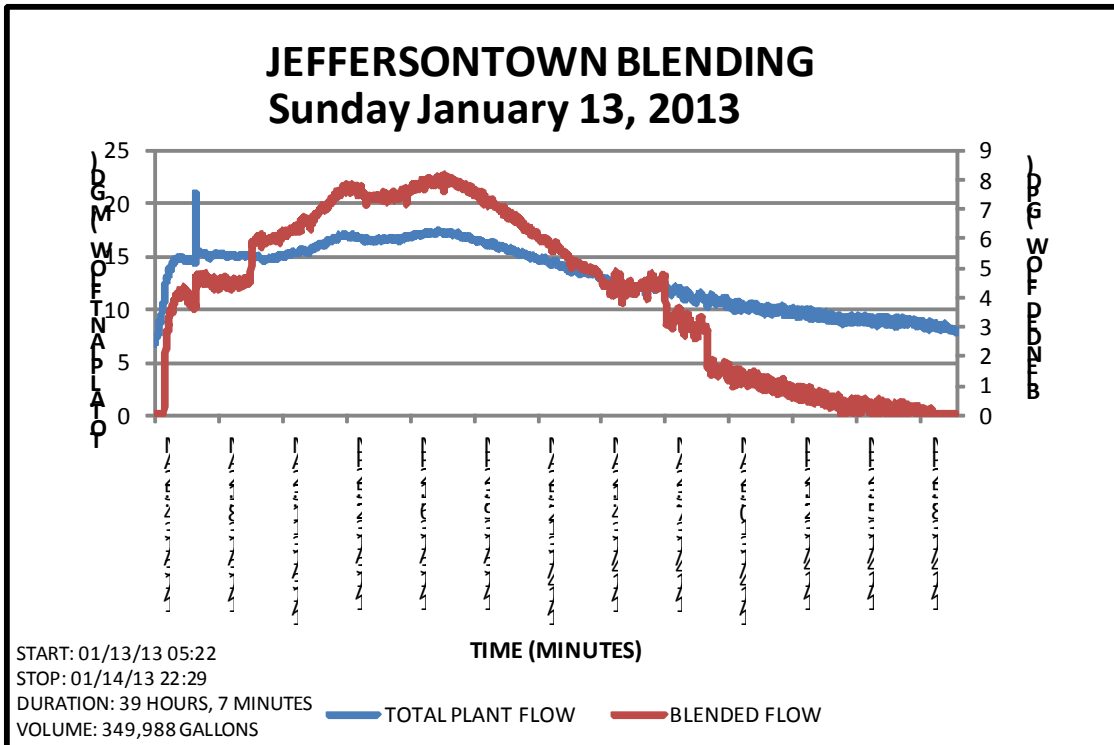
6.6.3 Jeffersontown Water Quality Treatment Center

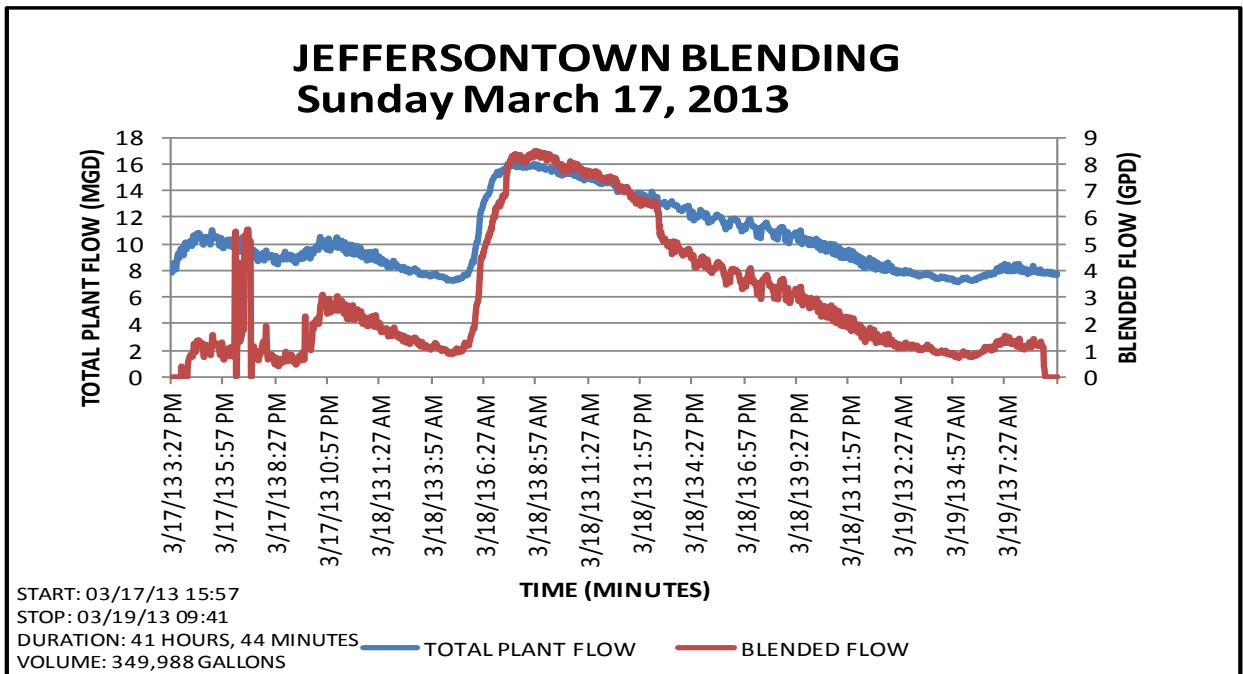
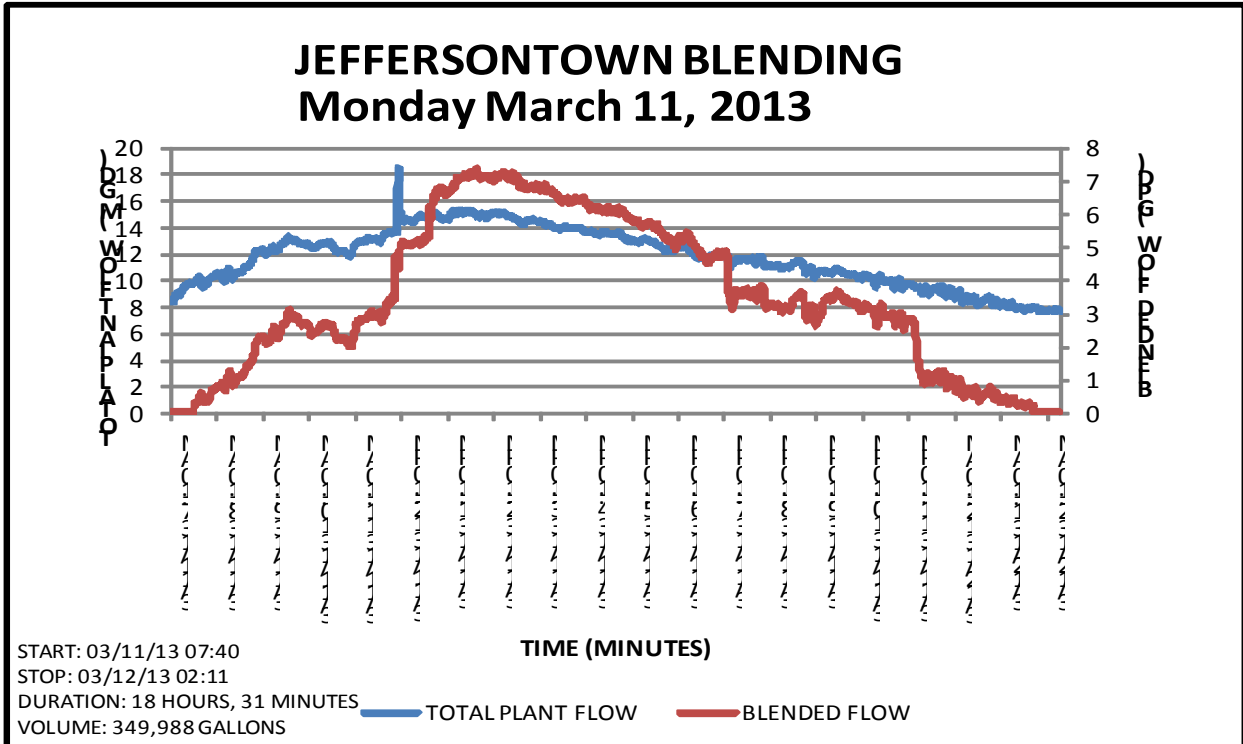
MSD submitted a Jeffersontown WQTC Process Control Plan on October 31, 2008, as required by paragraph 26.a of the Amended Consent Decree. MSD received comments on December 12, 2008, and resubmitted the plan January 16, 2009, and again on February 20, 2009. MSD received conditional approval of this document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

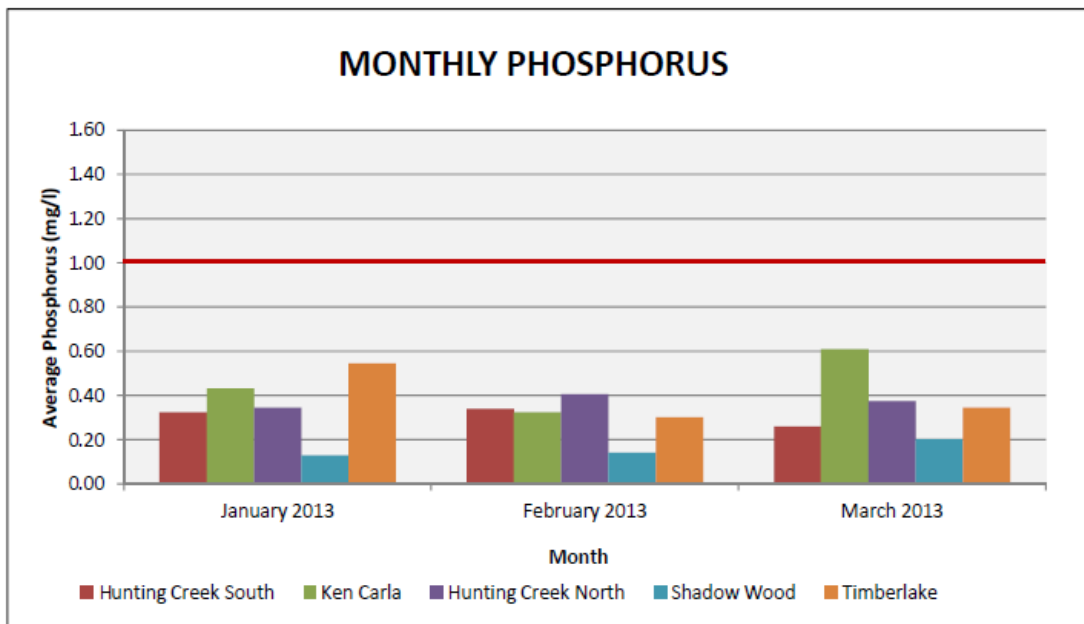
- Inspections were conducted upstream of the Jeffersontown WQTC Headworks three times (January 14, 2013, March 11, 2013 & March 17, 2013). Three overflows were reported as a result of the inspections. All three overflows occurred at manhole 28173 (not associated with the siphon).
- There were four blending 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
JANUARY 1, 2013 THROUGH MARCH 31, 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	938 LOGAN ST	01/02/13 10:15: PM	01/02/13 11:15 PM	13,750 GAL	Sewer Manhole	CSO117	STREAM	SOUTH FORK BEARGRASS CREEK	LWC WATER MAIN BREAK	UTILITY DAMAGED MSD ASSET	1618843	FRESH WATER DISCHARGED TO CREEK-NO CLEANUP NEEDED	LWC REPAIRED WATER MAIN
MORRIS FORMAN	KY0022411	623 E KENTUCKY ST	01/02/13 9:45: PM	01/02/13 11:15 PM	60,142 GAL	Sewer Manhole	CSO149	STREAM	SOUTH FORK BEARGRASS CREEK	LWC WATER MAIN BREAK NEAR CSO LOCATION	UTILITY DAMAGED MSD ASSET	1618992	FRESH WATER DISCHARGE- NONE NEEDED	LOCATION INCLUDED IN THE IOAP

Appendix A-2 - Discharge Work Orders – Bypass

APPENDIX A-2
UNAUTHORIZED DISCHARGES
TO WATERS OF UNITED STATES
JANUARY 1, 2013 THROUGH MARCH 31, 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
BERRYTOWN	KY0036501	1203 HEAFER RD	01/13/13 4:45: PM	01/14/13 12:30 PM	303,750 GAL	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY	BYPASS AT WQTC	1623301	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	03/18/13 2:37: PM	03/19/13 01:30 AM	32,650 GAL	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	1657583	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	03/18/13 2:37: PM	03/19/13 01:30 AM	32,650 GAL	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	1657585	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	03/18/13 2:37: PM	03/19/13 01:30 AM	48,975 GAL	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	1657587	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

Appendix A-3 - Discharge Work Orders – Blending

APPENDIX A-3
UNAUTHORIZED DISCHARGES
TO WATERS OF UNITED STATES
JANUARY 1, 2013 THROUGH MARCH 31, 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	01/13/13 5:22: AM	01/14/13 10:29 PM	7,177,246 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT IN THE AREA	BLENDING AT JTOWN WQTC	1623167	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	01/30/13 7:45: AM	01/31/13 02:53 AM	1,712,000 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT IN THE AREA	BLENDING AT JTOWN WQTC	1633908	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	03/11/13 7:40: AM	03/12/13 02:11 AM	2,821,225 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF CAPACITY DUE TO RAIN EVENT IN THE AREA	BLENDING AT JTOWN WQTC	1654779	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	03/17/13 3:57: PM	03/19/13 09:41 AM	5,348,765 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF CAPACITY DUE TO RAIN EVENT IN THE AREA	BLENDING AT JTOWN WQTC	1656877	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	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
JANUARY 1, 2013 THROUGH MARCH 31, 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
HITE CREEK	KY0022420	7302 FLOYDSBURG RD	01/13/13 10:35: AM	01/14/13 04:50 AM	10,950 GAL	Sewer Manhole	108957	DITCH	FLOYDS FORK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	LACK OF SYSTEM CAPACITY	1623210	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	01/13/13 4:45: PM	01/14/13 12:30 PM	303,750 GAL	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY	BYPASS AT WQTC	1623301	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	03/18/13 2:37: PM	03/19/13 01:30 AM	32,650 GAL	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	1657583	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	03/18/13 2:37: PM	03/19/13 01:30 AM	32,650 GAL	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	1657585	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	03/18/13 2:37: PM	03/19/13 01:30 AM	48,975 GAL	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	BYPASS AT WQTC	1657587	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
BERRYTOWN	KY0036501	1203 HEAFER RD	03/20/13 9:55: PM	03/20/13 10:00 PM	200 GAL	Sewer Treatment Plant	MSD0209	STREAM	FLOYDS FORK	PUMP CONTROLLER SWITCH FAILURE.	BYPASS AT WQTC	1658588	MSD CLEANED & SANITIZED THE AREA	RESET PUMP CONTROLLER SWITCH.
MCNEELY LAKE	KY0029416	10300 ROD N REEL RD	01/03/13 3:30: PM	01/03/13 03:35 PM	100 GAL	Sewer Treatment Plant	MSD0228	STREAM	PENNSYLVANIA RUN	OPERATOR ERROR. PUMP SELECTOR SWITCH LEFT IN OFF POSITION.	BYPASS AT WQTC	1619146	MSD CLEANED, SANITIZED, & LIMED THE AREA.	SELECTOR SWITCH PUT IN ON POSITION.
JEFFERSONTOWN	KY0025194	3258 RUCKRIEGEL PKY	01/13/13 8:44: AM	01/15/13 03:00 PM	72,000 GAL	Sewer Manhole	28173	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623199	DISCLN WO# 1623569	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3258 RUCKRIEGEL PKY	03/11/13 10:36: AM	03/11/13 04:36 PM	2,300 GAL	Sewer Manhole	28173	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1655107	DISCLN WO# 1655305	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3258 RUCKRIEGEL PKY	03/18/13 8:32: AM	03/18/13 03:20 PM	31,500 GAL	Sewer Manhole	28173	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1657231	DISCLN WO# 1657847	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	9707 WILLOWWOOD WAY	01/13/13 9:29: AM	01/15/13 03:00 PM	57,000 GAL	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623268	DISCLN WO# 1623585	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	9707 WILLOWWOOD WAY	03/11/13 1:22: PM	03/11/13 04:25 PM	950 GAL	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1655118	DISCLN WO# 1655310	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	9707 WILLOWWOOD WAY	03/18/13 9:10: AM	03/18/13 01:40 PM	10,500 GAL	Sewer Manhole	28336	DITCH	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1657236	DISCLN WO# 1657828	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3620 CHARLANE PKY	01/13/13 9:29: AM	01/15/13 03:00 PM	15,600 GAL	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623448	DISCLN WO# 1623580	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3620 CHARLANE PKY	03/11/13 1:27: PM	03/11/13 04:22 PM	1,450 GAL	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1655111	DISCLN WO# 1655307	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3620 CHARLANE PKY	03/18/13 9:10: AM	03/18/13 01:59 PM	18,000 GAL	Sewer Manhole	28340	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1657234	DISCLN WO# 1657834	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	2901 LIVINGSTON AVE	01/13/13 3:19: PM	01/15/13 03:00 PM	90,000 GAL	Sewer Manhole	28395	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623313	DISCLN WO# 1623664	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3400 DELL RD	01/13/13 2:40: PM	01/15/13 03:00 PM	45,000 GAL	Sewer Manhole	28414	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623310	DISCLN WO# 1623657	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	11401 GRAND AVE	01/13/13 5:35: AM	01/15/13 03:00 PM	160,000 GAL	Sewer Manhole	28551	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623183	DISCLN WO# 1623566	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	11401 GRAND AVE	01/30/13 10:21: AM	01/30/13 11:30 AM	100 GAL	Sewer Manhole	28551	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1634066	NONE NEEDED DUE TO LEVEL OF DISCHARGE AND THE MAGNITUDE OF STORM	LOCATION INCLUDED IN THE IOAP

APPENDIX A-4
UNAUTHORIZED DISCHARGES
TO WATERS OF UNITED STATES
JANUARY 1, 2013 THROUGH MARCH 31, 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	11401 GRAND AVE	03/11/13 8:52: AM	03/13/13 11:00 AM	1,500 GAL	Sewer Manhole	28551	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1655036	DISCLN WO# 1655293	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	11401 GRAND AVE	03/17/13 5:26: PM	03/18/13 01:40 PM	21,500 GAL	Sewer Manhole	28551	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1656897	DISCLN WO# 1657963	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	11201 AMPERE CT	03/26/13 1:00: PM	03/26/13 04:42 PM	3,330 GAL	Sewer Main	29373	DITCH	CHENOWETH RUN	DAMAGED MAIN SEWER AT CREEK CROSSING, DAMAGE CAUSED BY CREEK WASHOUT/EROSION	STRUCTURAL FAILURE	1661085	MSD CLEANED THE IMPACTED AREA	SANITARY CREWS MADE REPAIR TO BROKEN PORTION OF MAIN
JEFFERSONTOWN	KY0025194	2711 GRASSLAND DR	01/13/13 3:20: PM	01/15/13 03:00 PM	42,000 GAL	Sewer Manhole	31733	DITCH	BEATTY BROOK	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623317	DISCLN WO# 1623673	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	3200 RUCKRIEGEL PKY	01/13/13 9:15: AM	01/15/13 03:00 PM	24,000 GAL	Sewer Manhole	64505	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623202	DISCLN WO# 1623573	LOCATION INCLUDED IN THE IOAP
JEFFERSONTOWN	KY0025194	11804 CHIPPEWA RIDGE LN	01/13/13 6:30: PM	01/13/13 06:43 PM	1,300 GAL	Sewer Manhole	92061	GROUND	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT IN THE AREA	LACK OF SYSTEM CAPACITY	1623350	NO DEBRIS	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	01/13/13 5:22: AM	01/14/13 10:29 PM	7,177,246 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT IN THE AREA	BLENDING AT JTOWN WQTC	1623167	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	01/30/13 7:45: AM	01/31/13 02:53 AM	1,712,000 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT IN THE AREA	BLENDING AT JTOWN WQTC	1633908	PIPE DISCHARGE SUBMERGED- NO CLEANUP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	03/11/13 7:40: AM	03/12/13 02:11 AM	2,821,225 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF CAPACITY DUE TO RAIN EVENT IN THE AREA	BLENDING AT JTOWN WQTC	1654779	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	03/17/13 3:57: PM	03/19/13 09:41 AM	5,348,765 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF CAPACITY DUE TO RAIN EVENT IN THE AREA	BLENDING AT JTOWN WQTC	1656877	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	NEGOTIATIONS ARE UNDERWAY TO ALLOW TEMPORARY BLENDING AT THIS LOCATION.
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	03/17/13 6:11: PM	03/17/13 06:56 PM	4,500 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY	BYPASS AT WQTC	1656899	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
JEFFERSONTOWN	KY0025194	10725 OLD TAYLORSVILLE RD	03/17/13 7:10: PM	03/17/13 09:00 PM	10,000 GAL	Sewer Treatment Plant	MSD0255	STREAM	CHENOWETH RUN	LACK OF SYSTEM CAPACITY	BYPASS AT WQTC	1656898	PIPE DISCHARGE SUBMERGED- NO CLEANUP	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
SILVER HEIGHTS	KY0028801	9718 TITAN DR	01/13/13 2:00: PM	01/14/13 12:00 AM	120,000 GAL	Sewer Manhole	61667	GROUND	MUD CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1623235	MSD TO CLEAN SANITIZED AFFECTED AREA	AREA INCLUDED IN THE IOAP
SILVER HEIGHTS	KY0028801	3501 GRISSOM WAY	01/13/13 2:15: PM	01/14/13 12:15 AM	15,000 GAL	Sewer Manhole	61687	GROUND	MUD CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1623231	MSD CLEANED AND SANITIZED AFFECTED AREA	AREA INCLUDED IN THE IOAP
CHENOWETH HILLS	KY0029459	4305 ST RENE CT	01/13/13 4:05: PM	01/14/13 05:00 AM	600,625 GAL	Sewer Treatment Plant	MSD0263	STREAM	CHENOWETH RUN	SURGE TANK FULL; DISCHARGE PIPE MIXING WITH CLARIFIER EFFLUENT	BYPASS AT WQTC	1623302	PIPE DISCHARGE SUBMERGED- NO CLEAN UP	SURGE TANK LINE HAS BEEN PLUGGED
CHENOWETH HILLS	KY0029459	4305 ST RENE CT	01/13/13 7:40: PM	01/13/13 10:38 PM	26,700 GAL	Sewer Treatment Plant	MSD0263	STREAM	CHENOWETH RUN	LACK OF CAPACITY IN THE CHLORINE TANK	BYPASS AT WQTC	1623346	MSD CLEANED & SANITIZED THE AREA	CL2 TANK BEING HAULED
CHENOWETH HILLS	KY0029459	4305 ST RENE CT	01/13/13 7:40: PM	01/14/13 10:40 AM	45,000 GAL	Sewer Treatment Plant	MSD0263	STREAM	CHENOWETH RUN	EFFLUENT PIPE TO EFFLUENT PUMP STATION FAILED	BYPASS AT WQTC	1623401	NO DEBRIS	CONTRACTOR HAVE REPAIRED THE PIPE
DEREK R. GUTHRIE	KY0078956	12602 E ORELL RD	01/14/13 1:00: PM	01/15/13 06:45 AM	9,999 GAL	Sewer Manhole	106289	STREAM	WEAVER RUN	EQUIPMENT (SCREENS) FAILURE AT DRG WQTC	MECHANICAL FAILURE	1623843	MSD PERSONNEL CLEANED THE IMPACTED AREA	SCREENS BEING REPAIRED AT WQTC
DEREK R. GUTHRIE	KY0078956	13018 E ORELL RD	01/13/13 5:40: PM	01/15/13 06:45 AM	9,999 GAL	Sewer Manhole	106296	STREAM	WEAVER RUN	EQUIPMENT FAILURE (SCREENS) AT DRGWQTC	MECHANICAL FAILURE	1623315	MSD PERSONNEL CLEANED AND SANITIZED THE IMPACTED AREA	DISCHARGE ASSOCIATED WITH SCREEN FAILURES AT DRGWQTC. SCREENS CURRENTLY UNDER REPAIR.
DEREK R. GUTHRIE	KY0078956	8126 MINOR LN	02/22/13 12:30: PM	02/22/13 01:00 PM	200 GAL	Sewer Manhole	14444	DITCH	SOUTHERN DITCH	OBSTRUCTION IN MAIN SEWER	OBSTRUCTION-NOT GREASE OR ROOT	1648156	MSD CLEANED PERSONNEL CLEANED AND SANITIZE THE IMPACTED AREA	WORK ORDERS 1648164,1648155; ROOT CUT, VACTORED THE MAIN SEWER

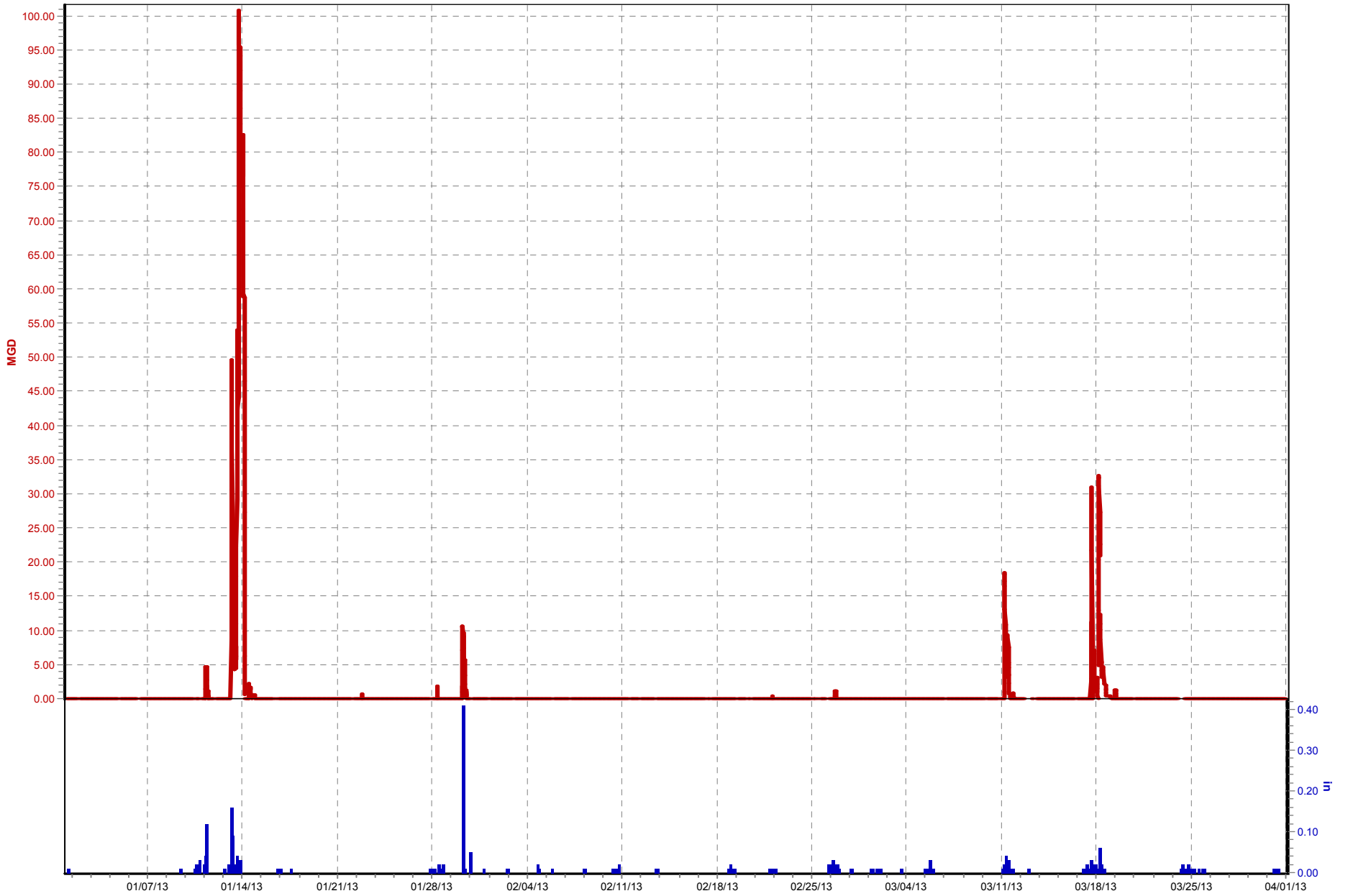
APPENDIX A-4
UNAUTHORIZED DISCHARGES
TO WATERS OF UNITED STATES
JANUARY 1, 2013 THROUGH MARCH 31, 2013

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
DEREK R. GUTHRIE	KY0078956	6023 COOPER CHAPEL RD	01/30/13 8:00: AM	01/30/13 10:15 PM	42,750 GAL	Sewer Service Line	160264	GROUND	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1634076	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	6023 COOPER CHAPEL RD	03/18/13 7:00: AM	03/18/13 02:00 PM	10,500 GAL	Sewer Service Line	160264	GROUND	FISHPOOL CREEK	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	LACK OF SYSTEM CAPACITY	1656982	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	6615 MOORMAN RD	01/13/13 1:00: PM	01/15/13 01:45 PM	95,000,000 GAL	Sewer Manhole	22370	GROUND	MILL CREEK	SCREEN FAILURE AT DRG.	LACK OF SYSTEM CAPACITY	1623224	CONTRACTOR PERFORMED EXTENSIVE CLEANUP IN THE AREA.	SCREEN FAILURE REPAIR TO BE COMPLETED AT DRG.
DEREK R. GUTHRIE	KY0078956	6102 COOPER CHAPEL RD	01/13/13 8:30: AM	01/14/13 02:50 AM	27,500 GAL	Sewer Manhole	25479	CATCH BASIN	PENNSYLVANIA RUN	RAIN EVENT CAUSED A LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1623213	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	6102 COOPER CHAPEL RD	03/18/13 9:41: AM	03/18/13 02:00 PM	3,246 GAL	Sewer Manhole	25479	CATCH BASIN	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	LACK OF SYSTEM CAPACITY	1657254	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	9317 LANTANA DR	01/13/13 8:40: AM	01/14/13 02:45 AM	27,000 GAL	Sewer Manhole	25484	STREAM	PENNSYLVANIA RUN	LACK OF SYSTEM CAPACITY DUE TO RAIN EVENT	LACK OF SYSTEM CAPACITY	1623211	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON-WILL MONITOR & EVALUATE FOR REPAIR
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	01/13/13 7:00: AM	01/14/13 12:00 PM	261,000 GAL	Sewer Manhole	27116	STREAM	MUD CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623174	MSD TO CLEAN AND SANITIZE AFFECTED AREA	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP.
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	01/30/13 8:30: AM	01/30/13 02:00 PM	66,000 GAL	Sewer Manhole	27116	STREAM	MUD CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1634056	MSD CLEAN AND SANITIZE AFFECTED AREA	AREA INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	03/11/13 8:00: AM	03/11/13 07:00 PM	66,000 GAL	Sewer Manhole	27116	STREAM	MUD CREEK	WET WEATHER - HEAVY RAINFALL	LACK OF SYSTEM CAPACITY	1654928	MSD TO CLEAN AND SANITIZE AFFECTED AREA	AREA INCLUDED IN IOAP
DEREK R. GUTHRIE	KY0078956	10304 CAVEN AVE	03/17/13 11:30: PM	03/18/13 04:23 PM	102,000 GAL	Sewer Manhole	27116	STREAM	MUD CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN	LACK OF SYSTEM CAPACITY	1656964	MSD TO CLEAN AND SANITIZE AFFECTED AREA	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP.
DEREK R. GUTHRIE	KY0078956	6810 SANDSTONE BLVD	01/13/13 6:30: AM	01/14/13 03:00 AM	69,750 GAL	Sewer Manhole	29948	GROUND	FERN CREEK	RAIN EVENT LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1623190	MSD PERSONNEL TO CLEAN AND SANITIZE AFFECTED AREA UNDER WORKORDER#	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	6810 SANDSTONE BLVD	03/18/13 7:20: AM	03/18/13 11:40 AM	12,000 GAL	Sewer Manhole	29948	GROUND	FERN CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1657212	MSD TO CLEAN AND SANITIZE AFFECTED AREA	LOCATION INCLUDED IN IOAP
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	01/13/13 6:45: AM	01/13/13 11:30 PM	27,375 GAL	Sewer Manhole	31073	DITCH	FERN CREEK	LACK OF SYSTEM CAPACITY - HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623196	MSD CLEANED AND SANITIZED AFFECTED AREA	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP.
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	03/18/13 7:40: AM	03/18/13 11:40 AM	12,000 GAL	Sewer Manhole	31073	DITCH	FERN CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1657215	MSD TO CLEAN AND SANITIZE AFFECTED AREA	AREA INCLUDED IN IOAP
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	01/13/13 6:45: AM	01/14/13 11:08 AM	133,740 GAL	Sewer Manhole	31074	DITCH	FERN CREEK	RAIN EVENT LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1623203	MSD PERSONNEL TO CLEAN AND SANITIZE AFFECTED AREA UNDER WORKORDER#	LOCATION PART OF MSD IOAP
DEREK R. GUTHRIE	KY0078956	6808 SANDSTONE BLVD	03/18/13 7:30: AM	03/18/13 11:40 AM	12,000 GAL	Sewer Manhole	31074	DITCH	FERN CREEK	LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1657213	MSD TO CLEAN AND SANITIZE AFFECTED AREA	AREA INCLUDED IN IOAP
DEREK R. GUTHRIE	KY0078956	6707 W ORELL RD	01/13/13 11:00: AM	01/13/13 07:35 PM	9,999 GAL	Sewer Manhole	32682	STREAM	ALVEY DITCH	LACK OF SYSTEM CAPACITY-HEAVY RAIN	LACK OF SYSTEM CAPACITY	1623284	DISCLN WO# 1623694	LOCATION INCLUDED IN THE IOAP
DEREK R. GUTHRIE	KY0078956	4705 NOTTINGHAMSHIRE DR	03/14/13 6:55: PM	03/14/13 07:30 PM	750 GAL	Sewer Manhole	41545	CATCH BASIN	FERN CREEK	ROOTS OBSTRUCTION CAUSED MANHOLE TO OVERFLOW	ROOTS	1656512	CONTRACTOR CLEANED AND SANITIZED THE AREA	A SOLUTION FOR THIS LOCATION IS INCLUDED IN THE IOAP.
DEREK R. GUTHRIE	KY0078956	9114 CINDERELLA LN	01/13/13 11:50: AM	01/14/13 03:00 AM	22,750 GAL	Sewer Manhole	60679	DITCH	FISHPOOL CREEK	RAINEVENT CAUSED A LACK OF SYSTEM CAPACITY	LACK OF SYSTEM CAPACITY	1623215	MSD CLEANED & SANITIZED THE AREA	SITE FOUND DURING RAIN EVENT RECON- WILL MONITOR & EVALUATE FOR REPAIR

Appendix B – CSO Flow Monitoring Data

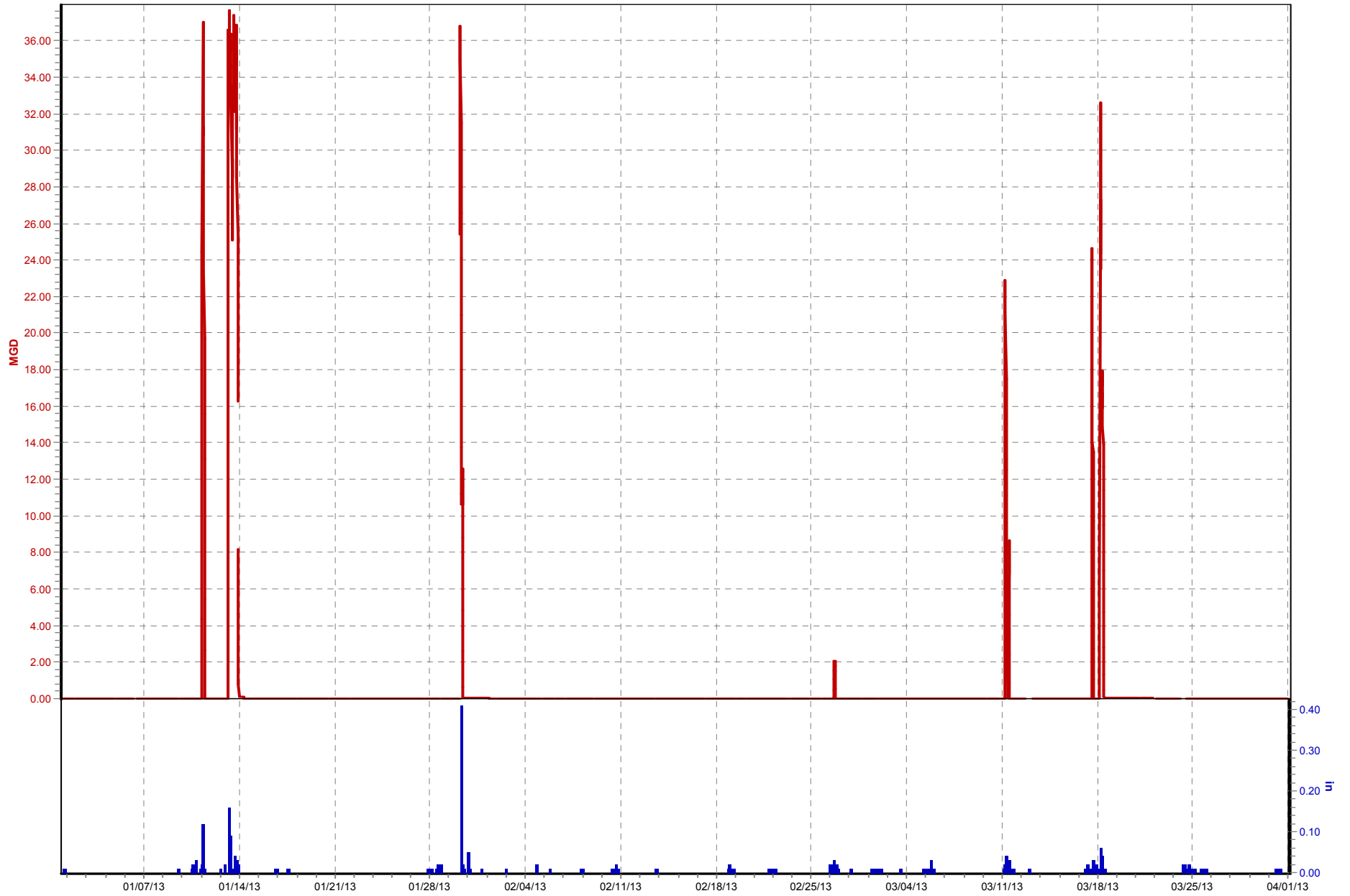
CSO015 Bell Lane (01/01/13 to 04/01/13)

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



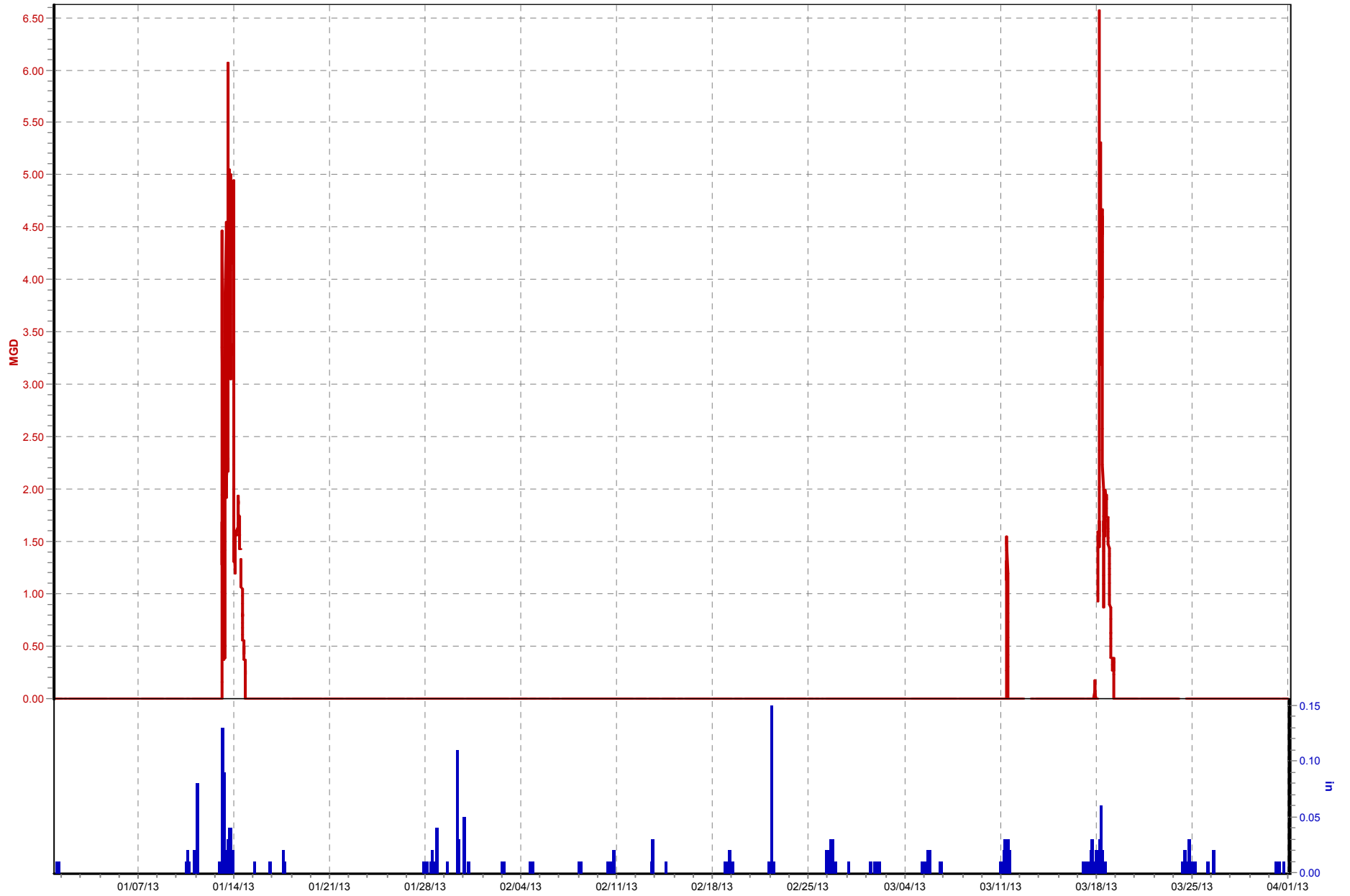
CSO016 Winnrose Way (01/01/13 to 04/01/13)

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



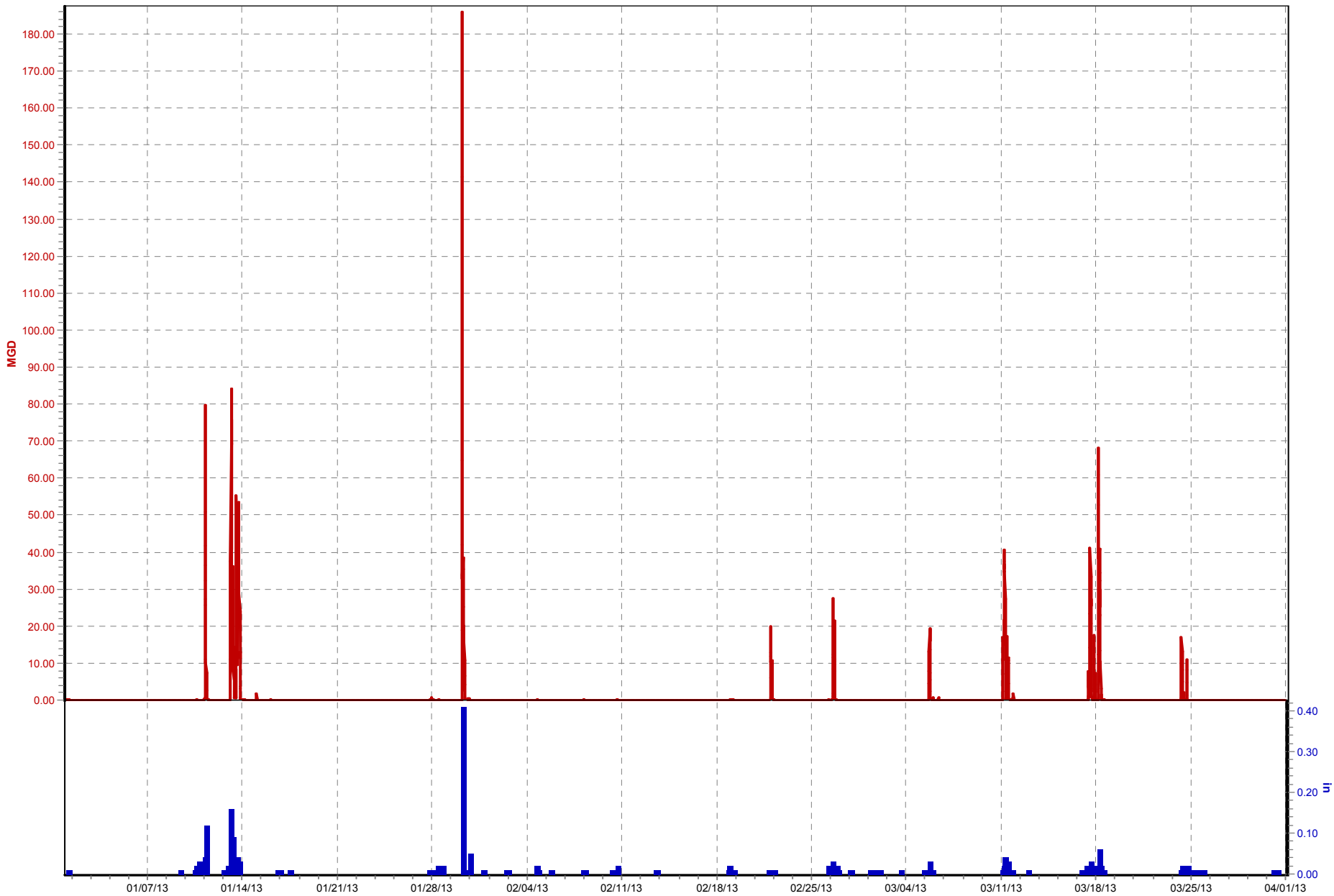
CSO018 Nightingale Rd (01/01/13 to 04/01/13)

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



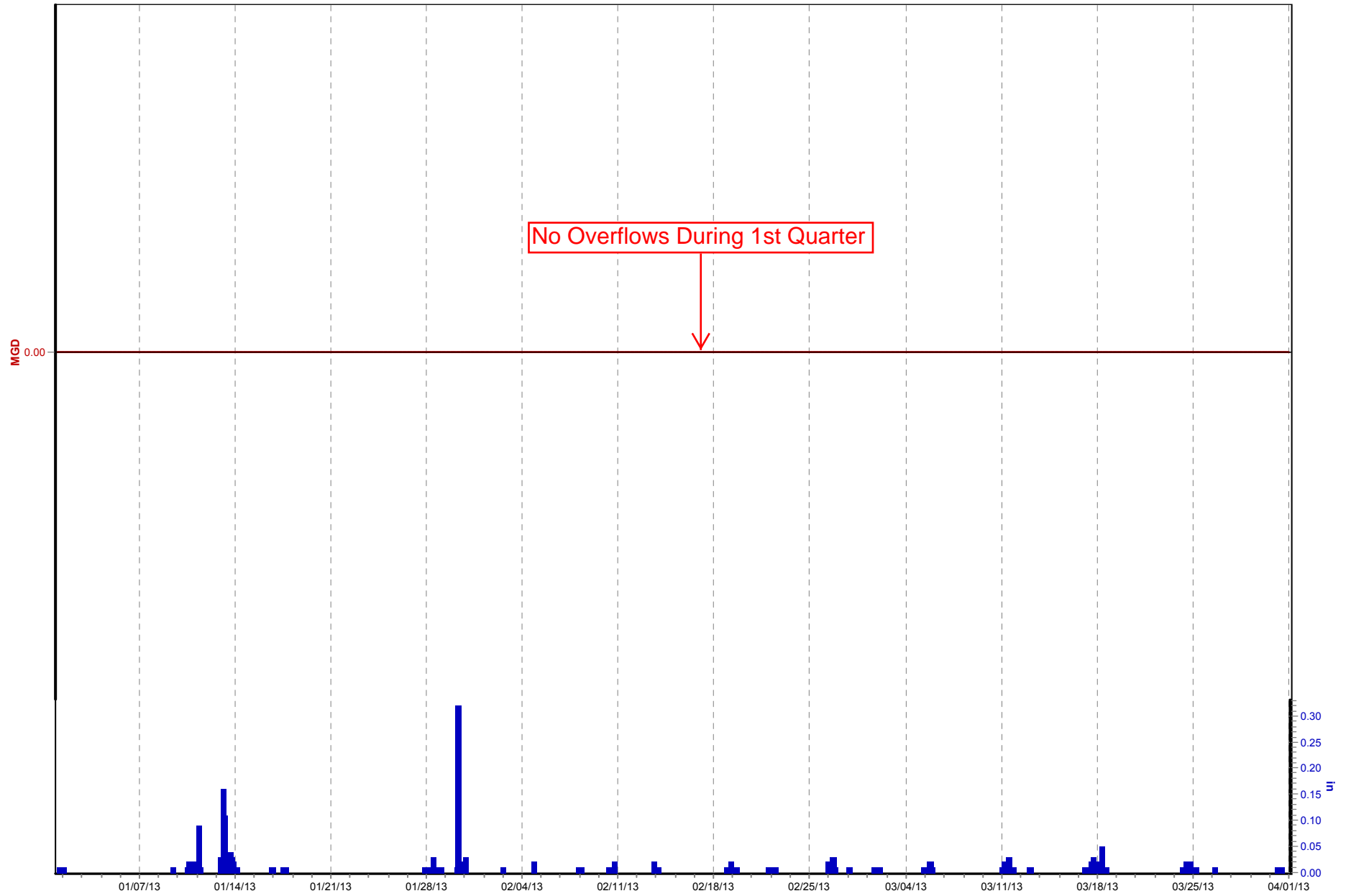
CSO019 34th and Rudd (01/01/13 to 04/01/13)

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



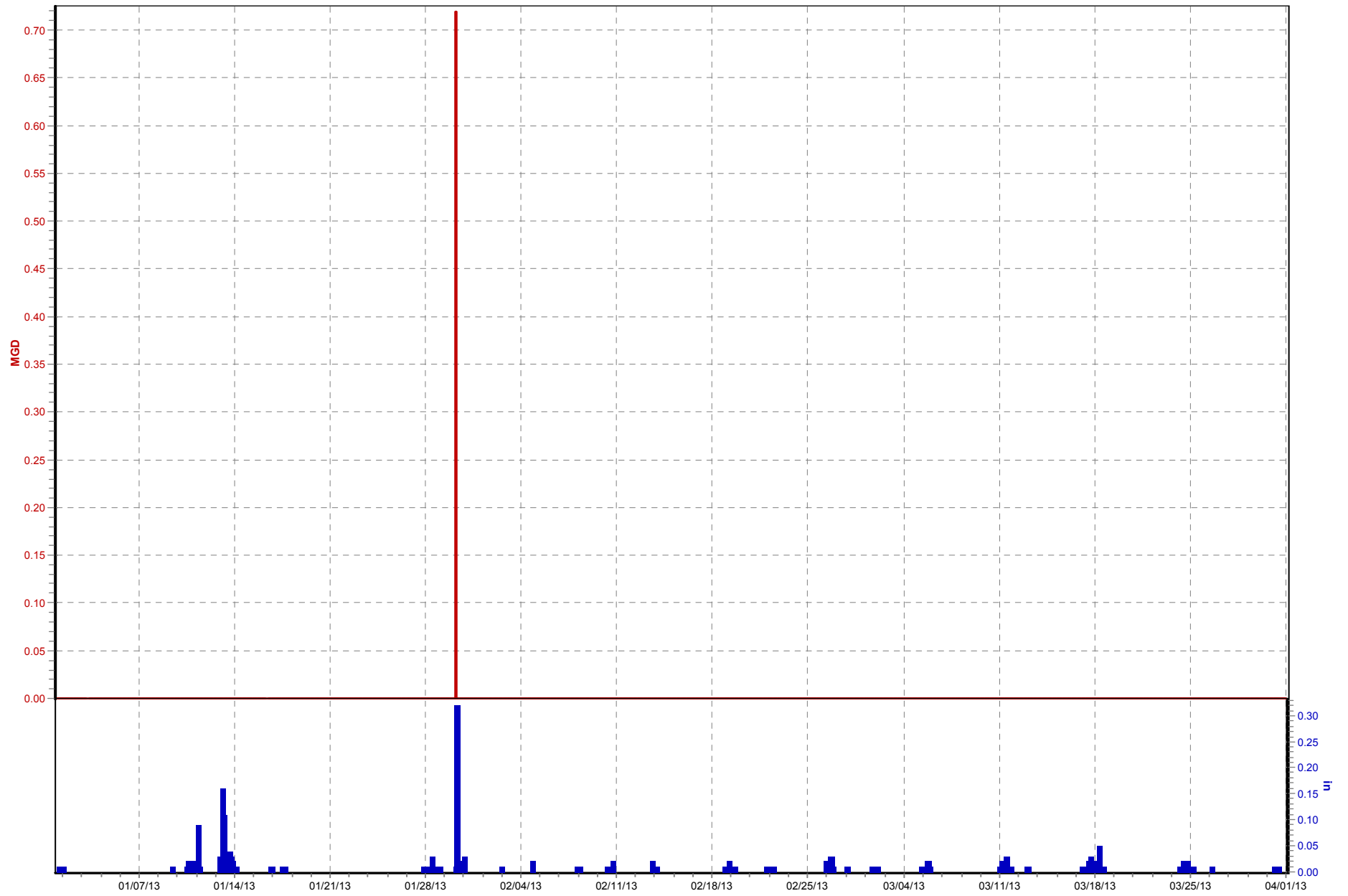
CSO027 7th and Broadway (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



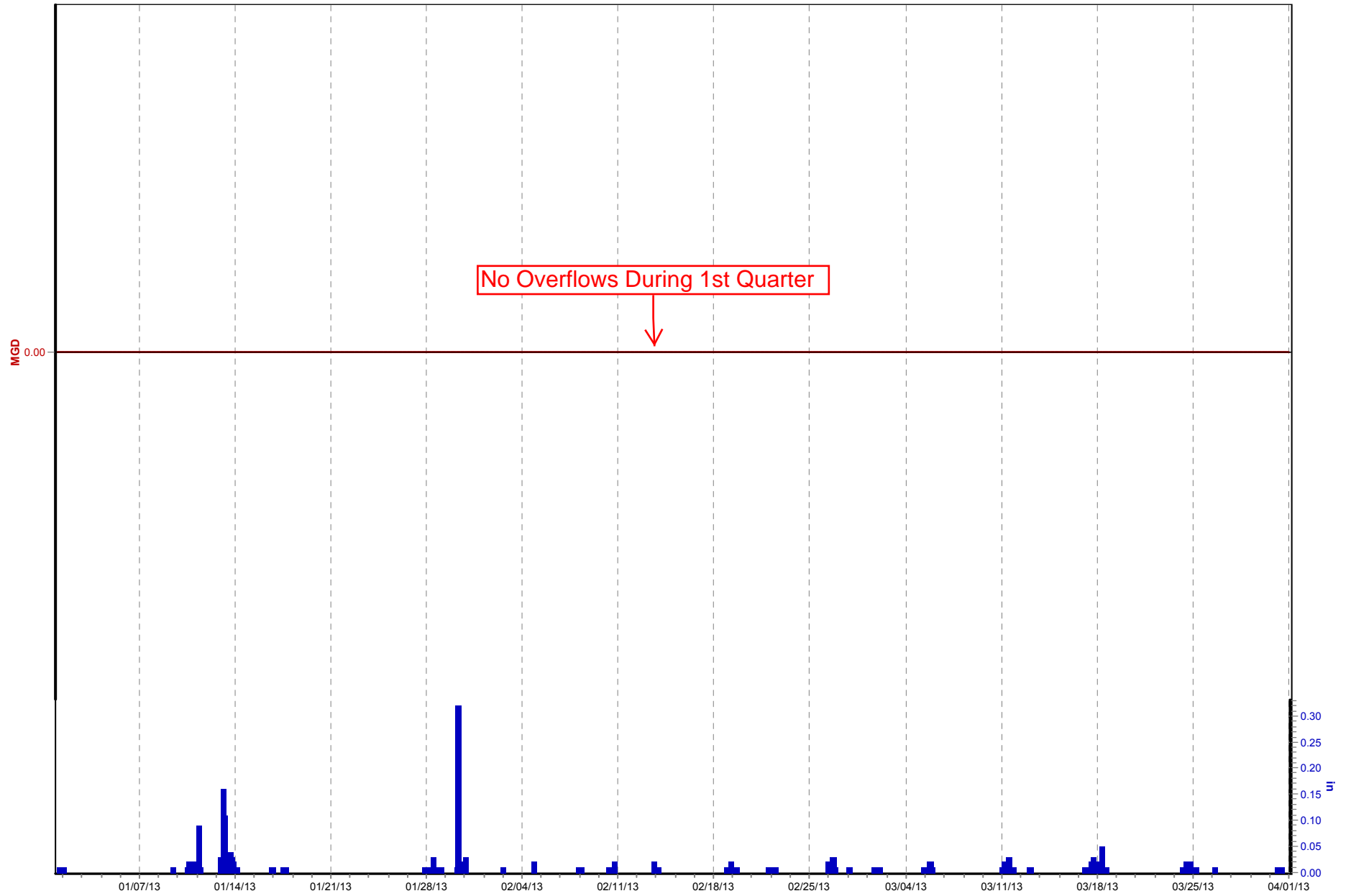
CSO028 6th and York St (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



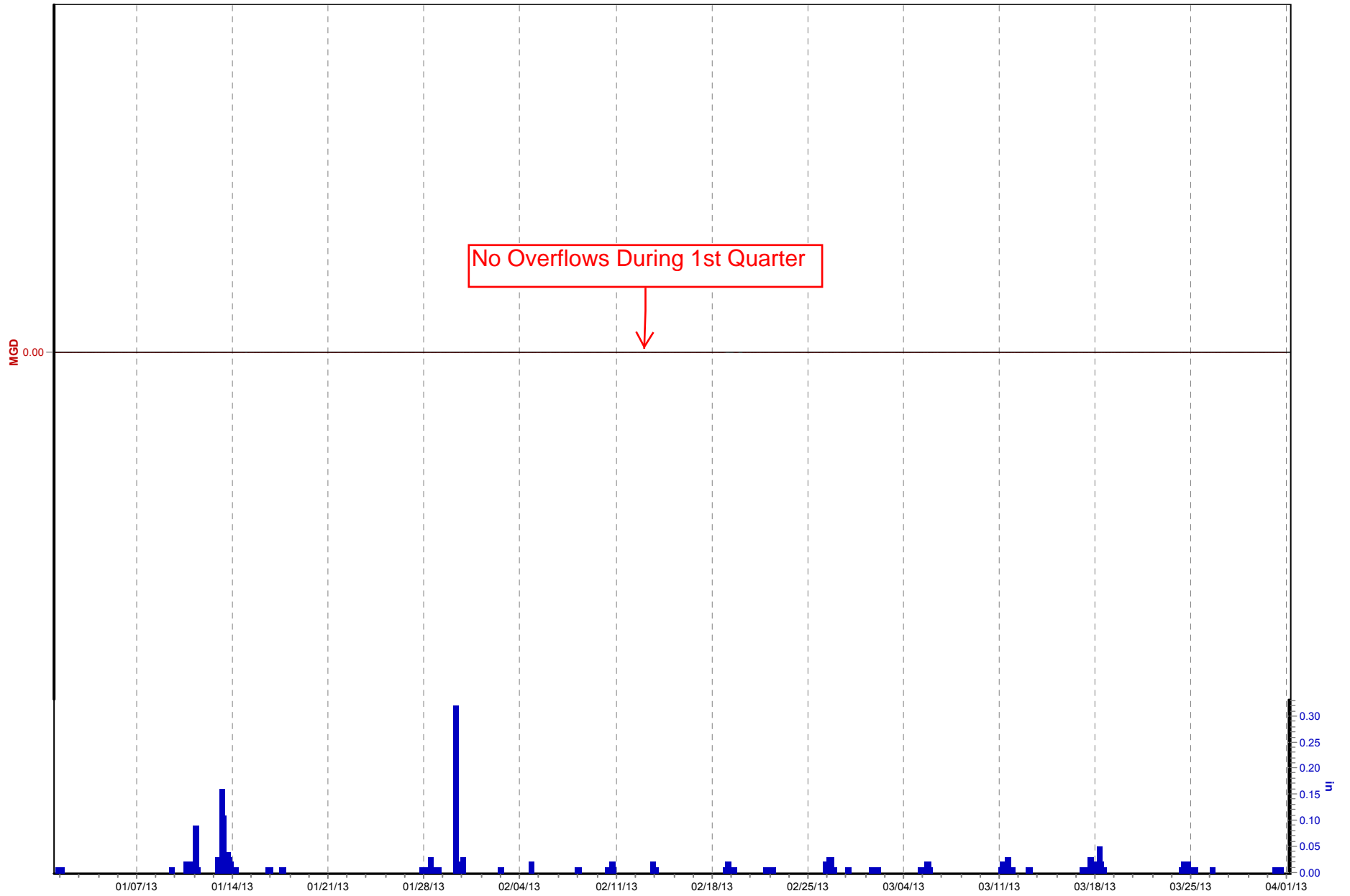
CSO029 LGE Lot 9th St (01/01/13 to 04/01/13)

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



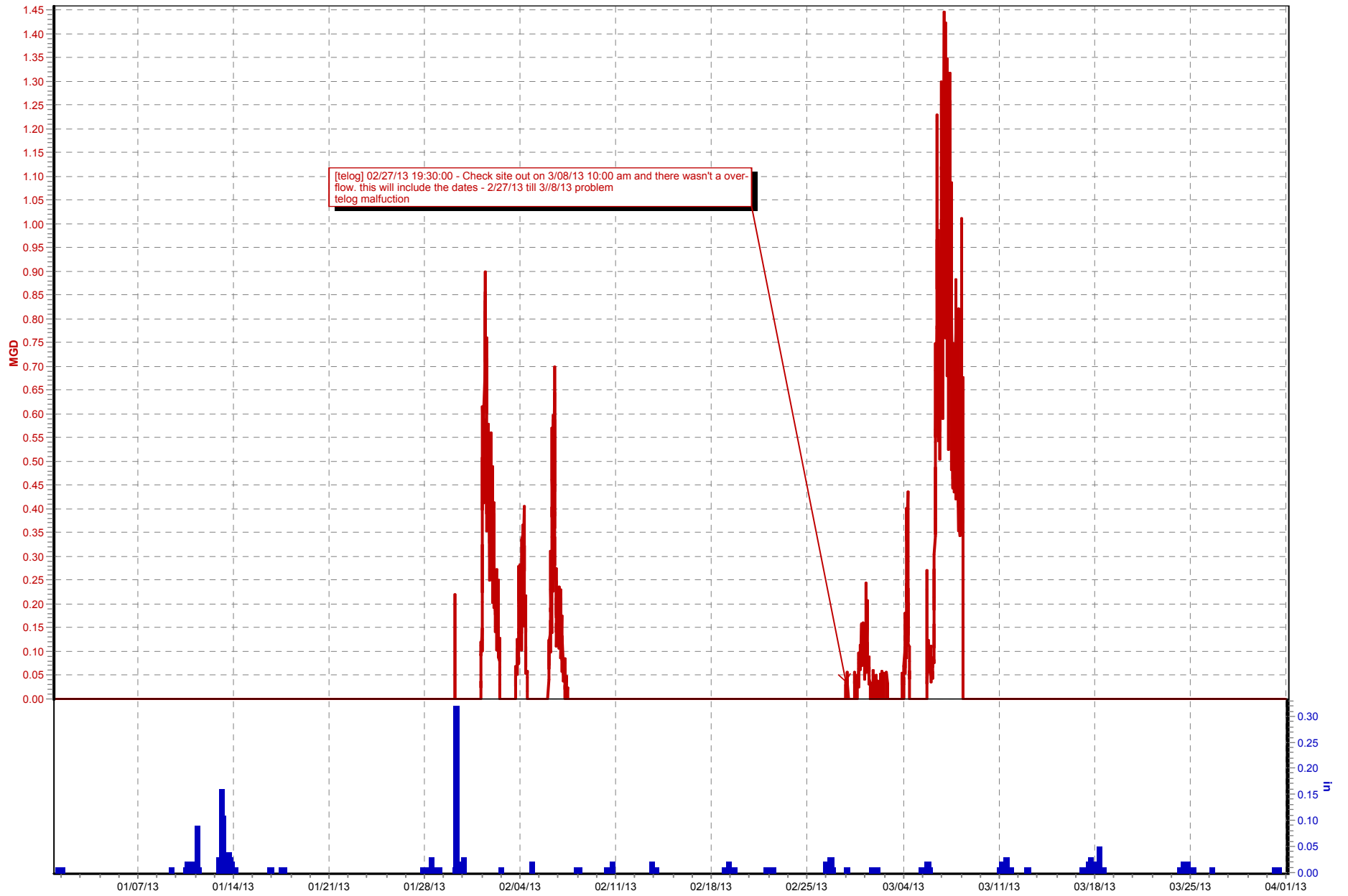
CSO031 6th and Breckinridge (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



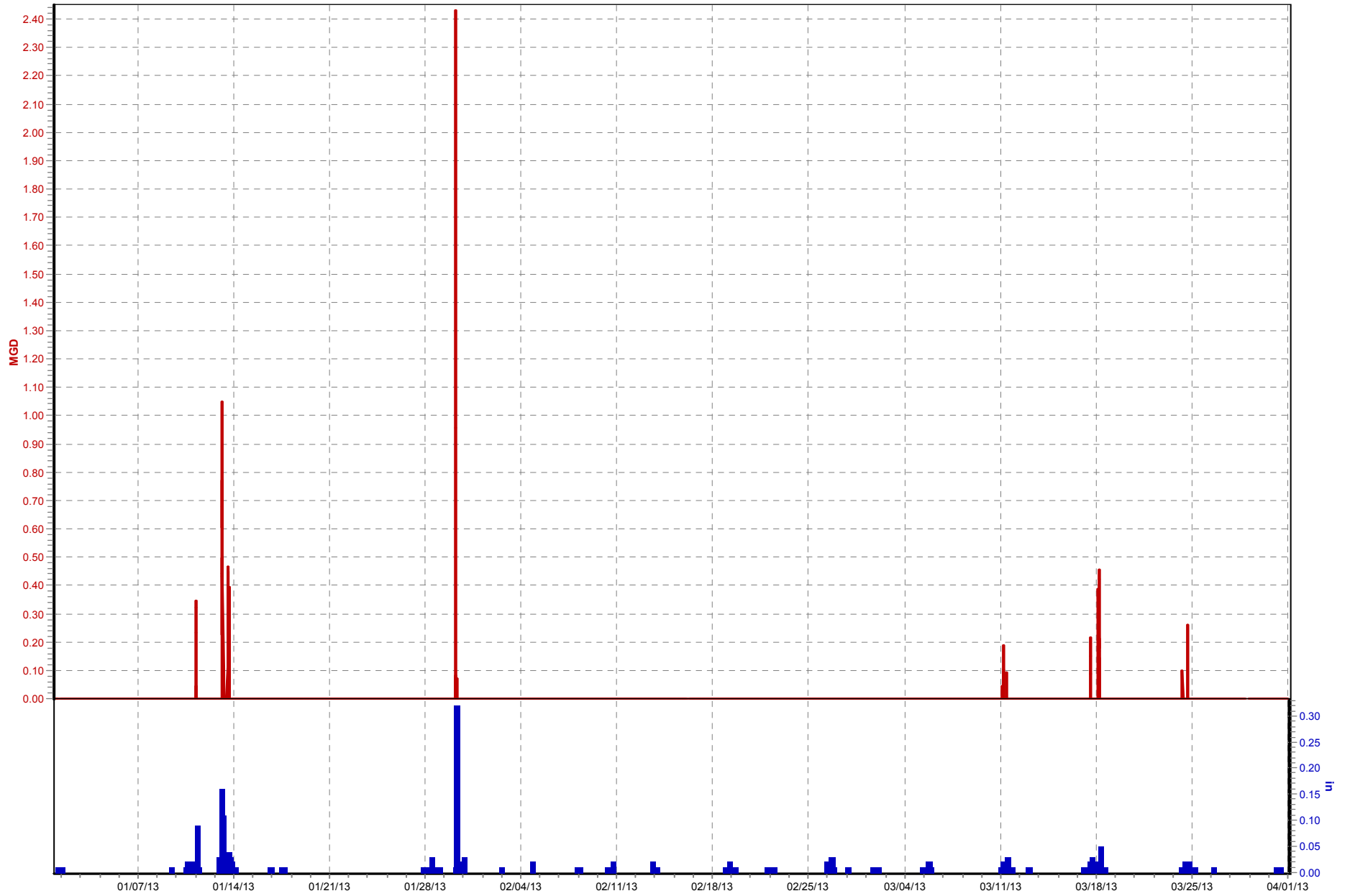
CSO034 4th and York (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



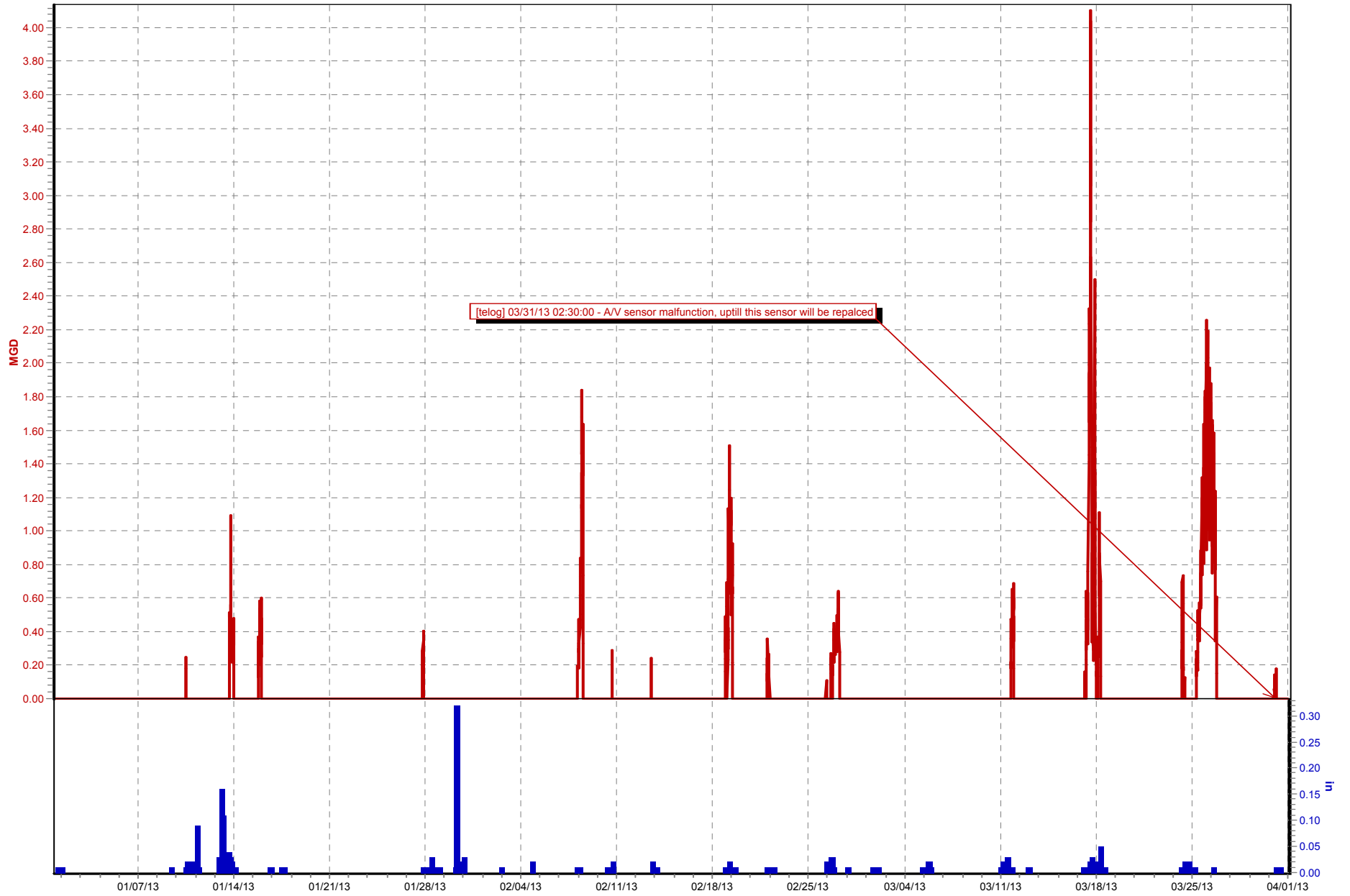
CSO036 3rd and Broadway (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



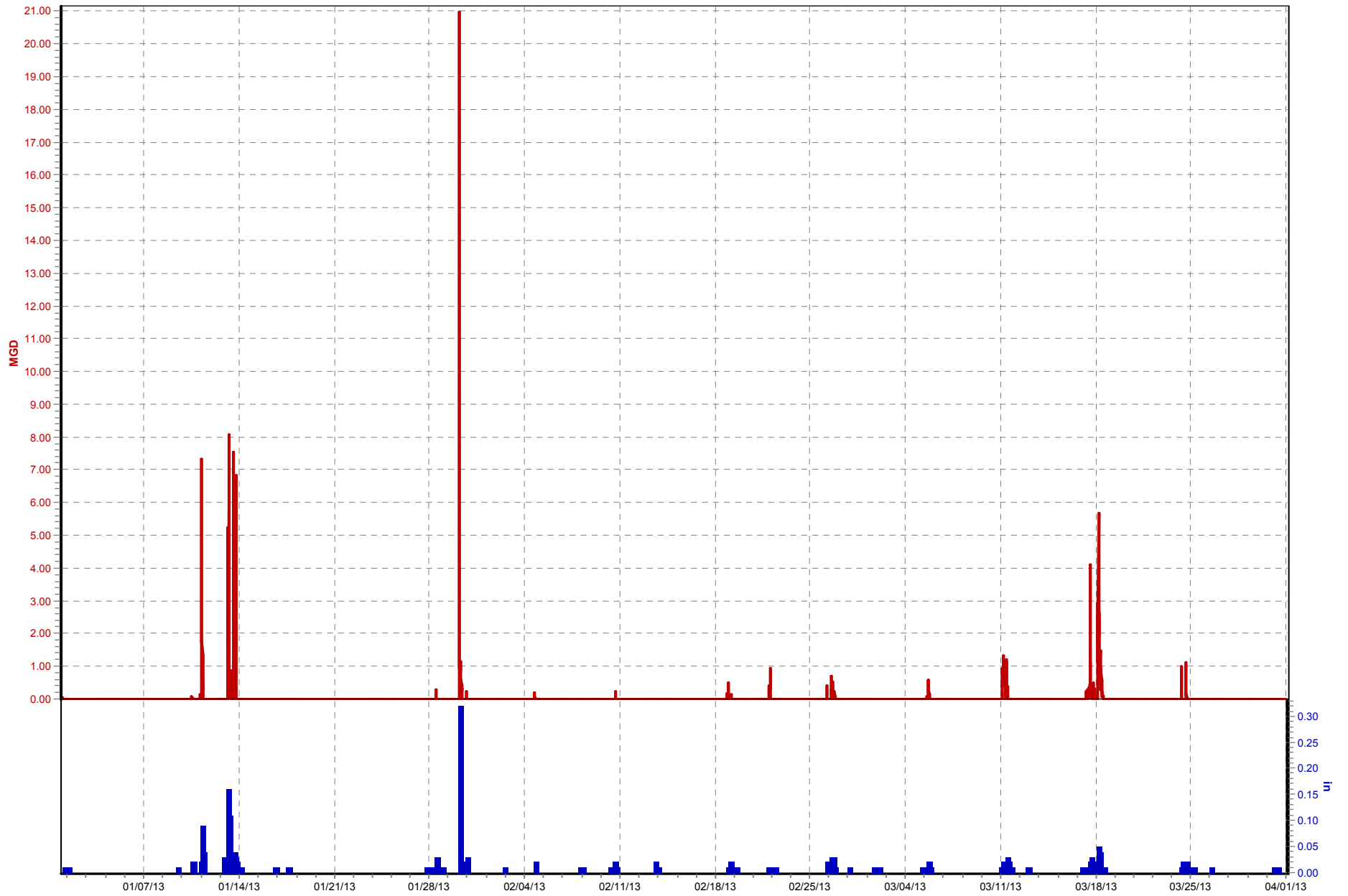
CSO038 5th and Broadway (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



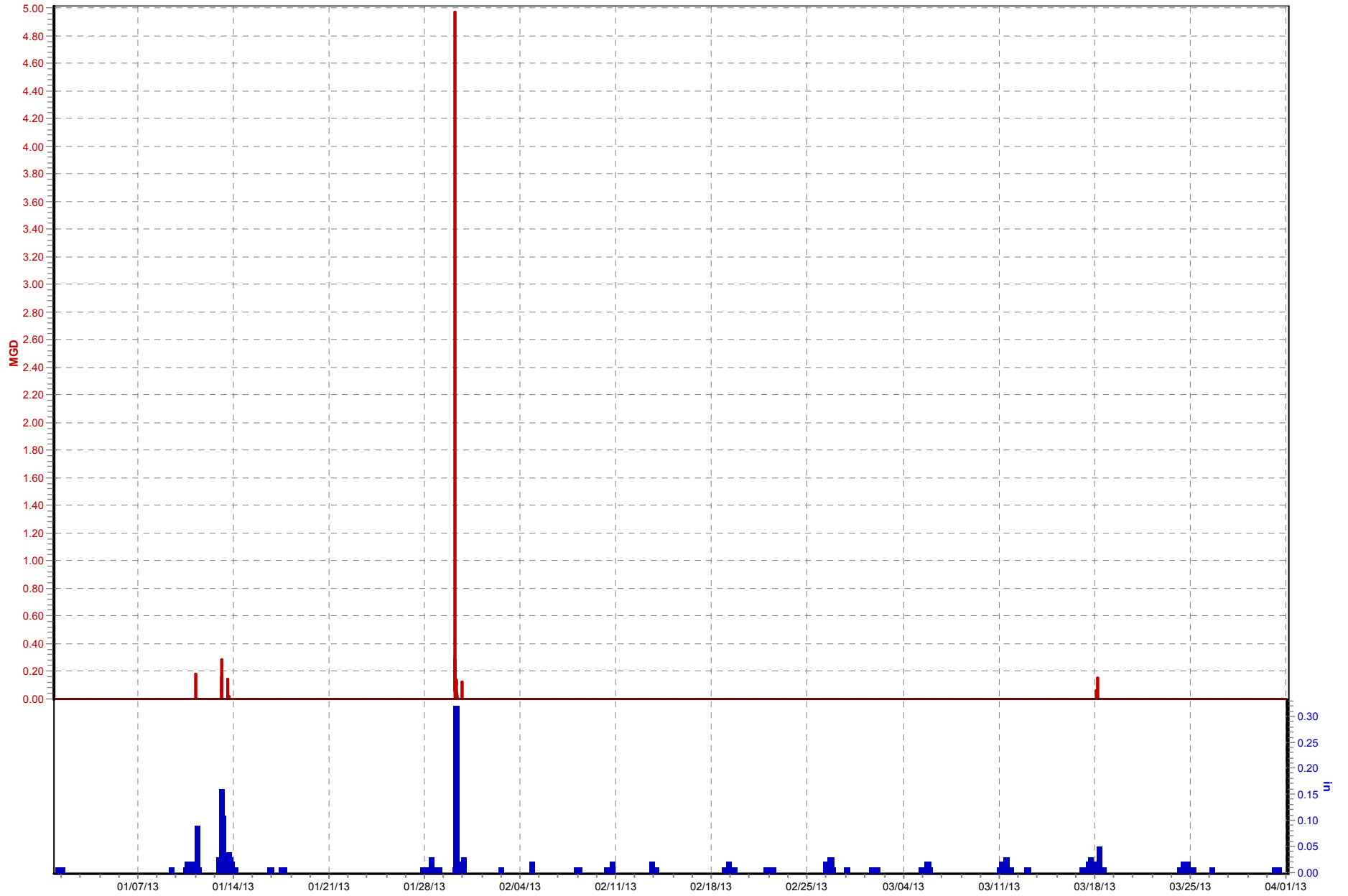
CSO050 12th and Rowan (01/01/13 to 04/01/13)

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



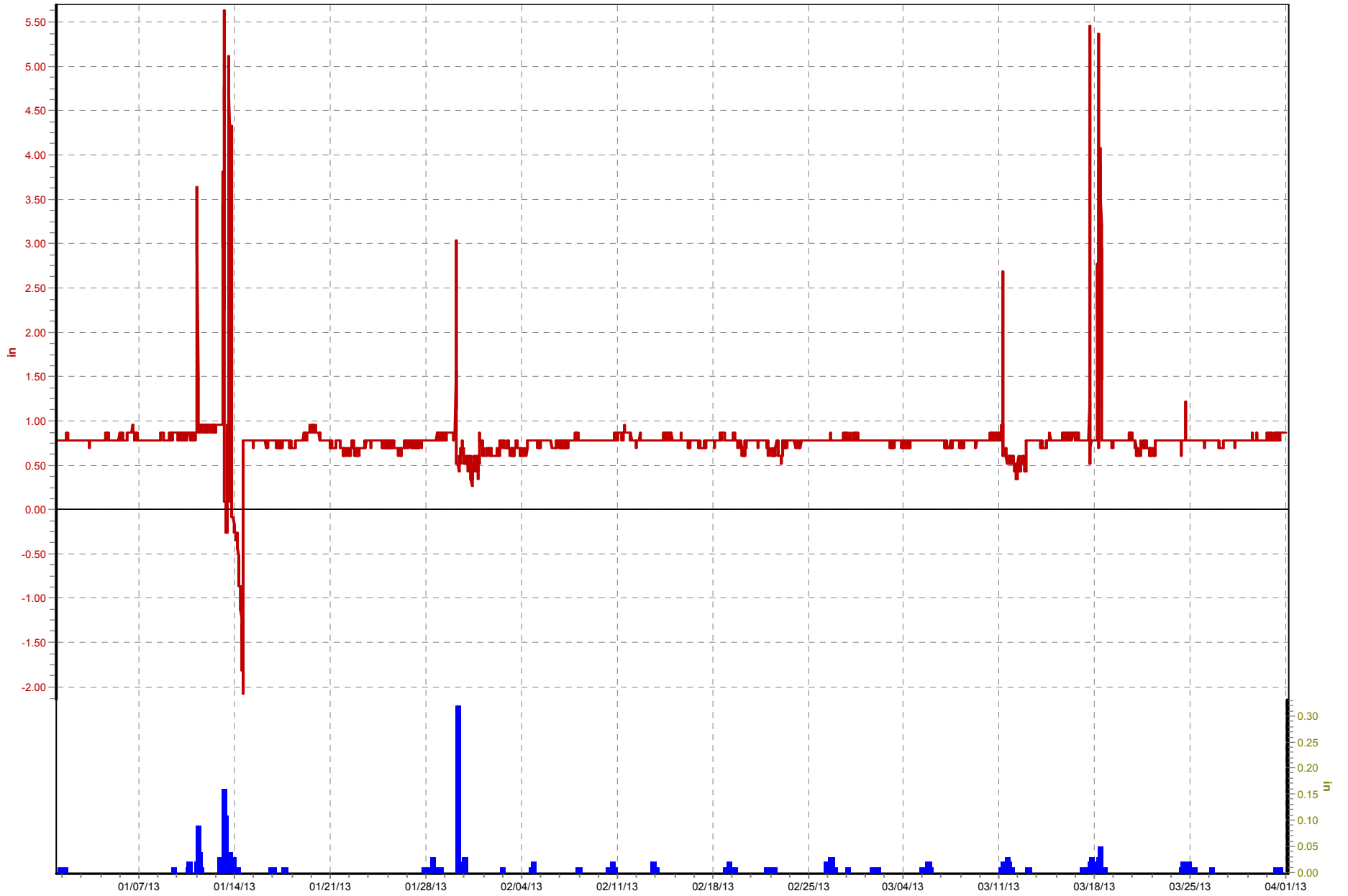
CSO051 11th St and Main St (01/01/13 to 04/01/13)

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



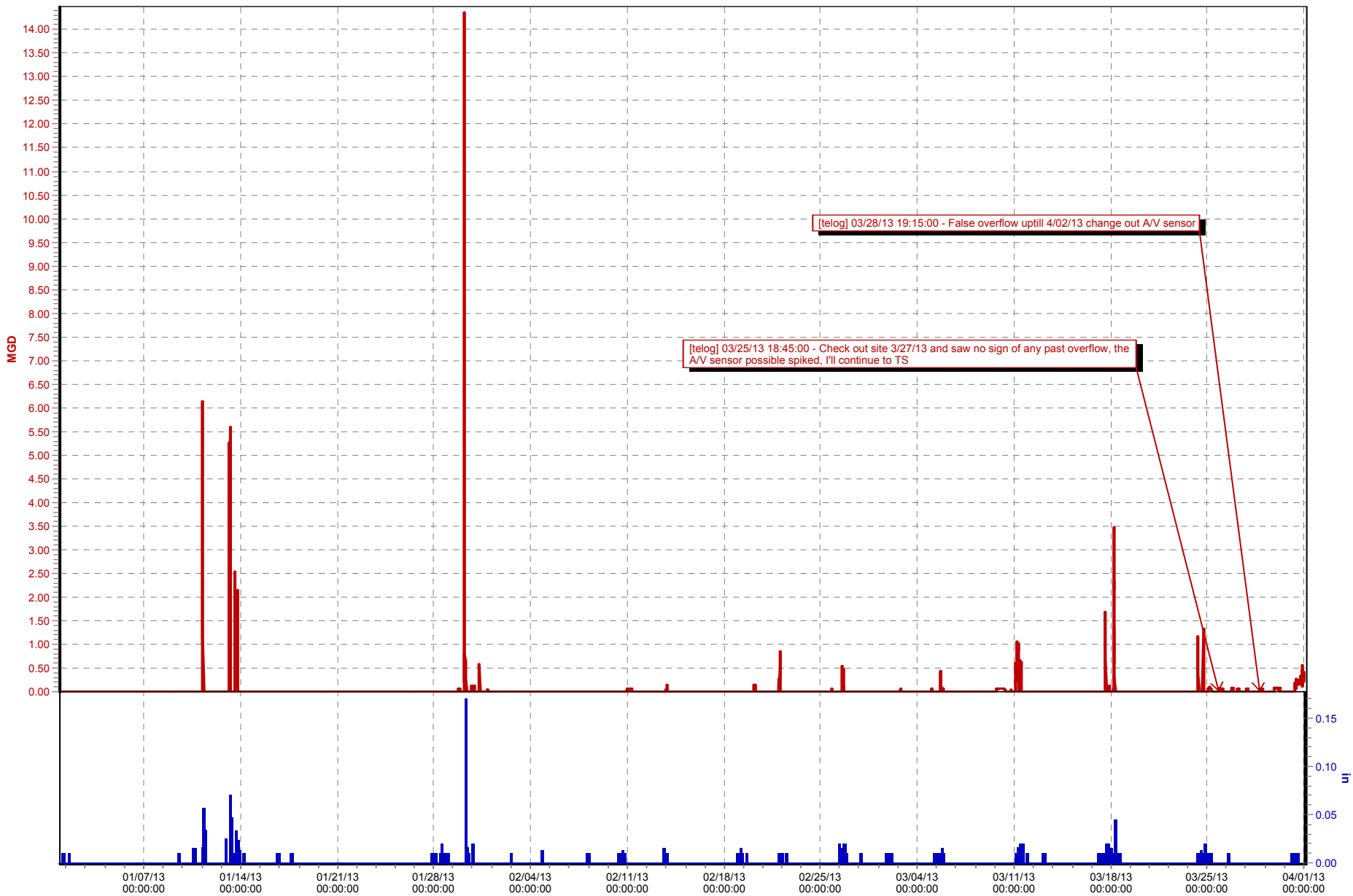
CSO052 10th St (01/01/13 to 04/01/13)

Level (in) TR05_Beargrass PS.Rain (in)



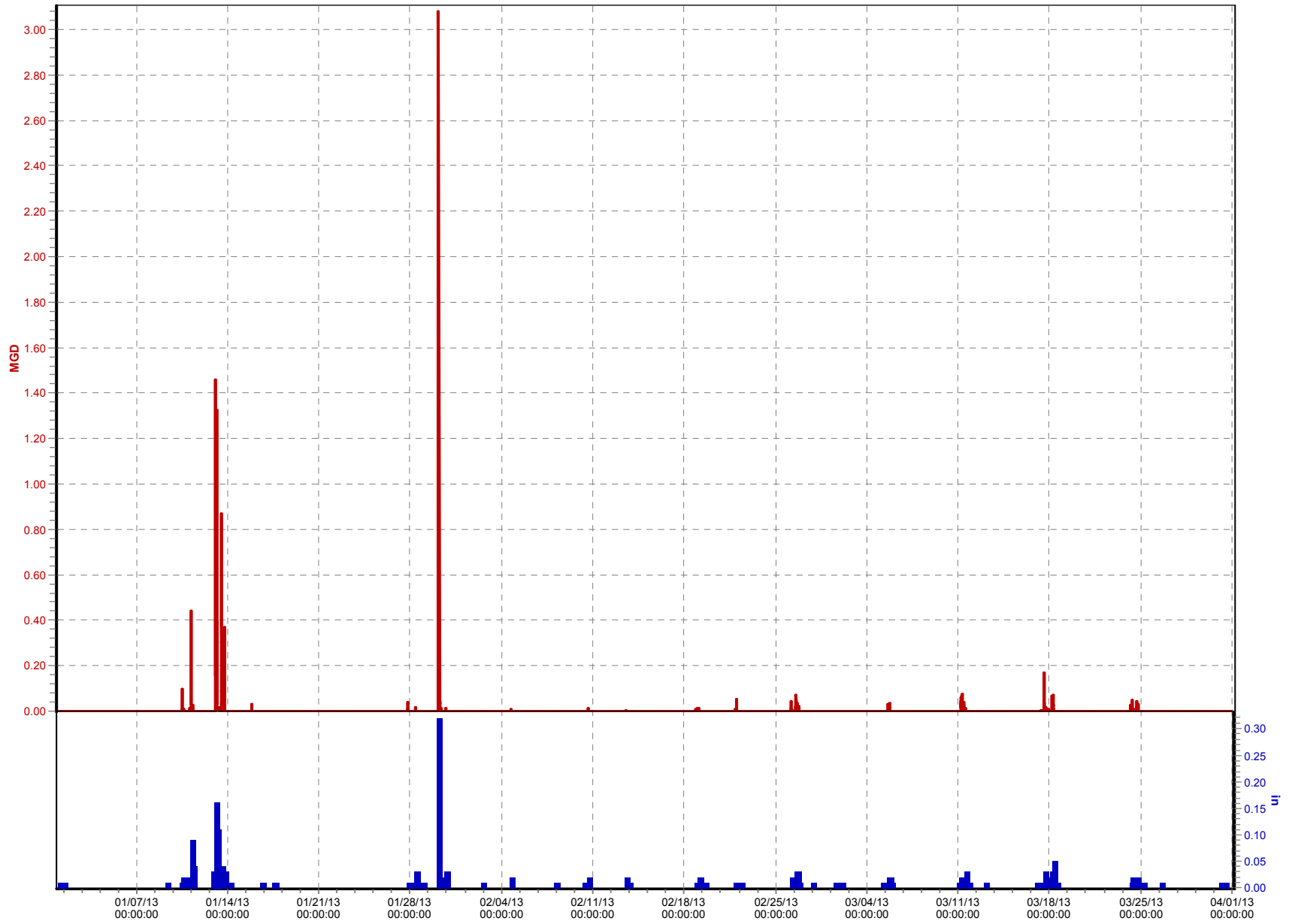
CSO053 7th and Main St (01/01/13 to 04/01/13)

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



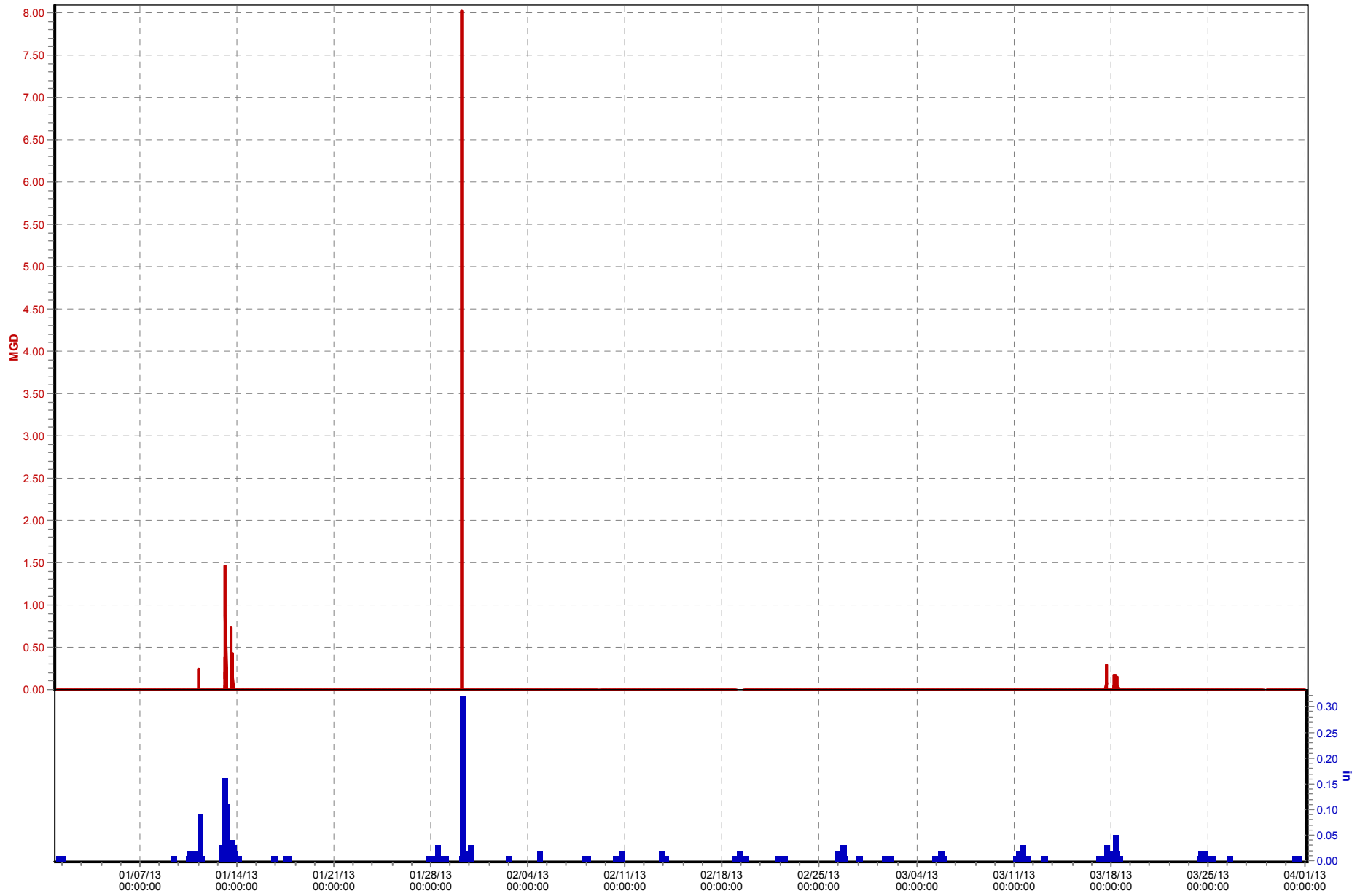
CSO054 7th St (01/01/13 to 04/01/13)

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



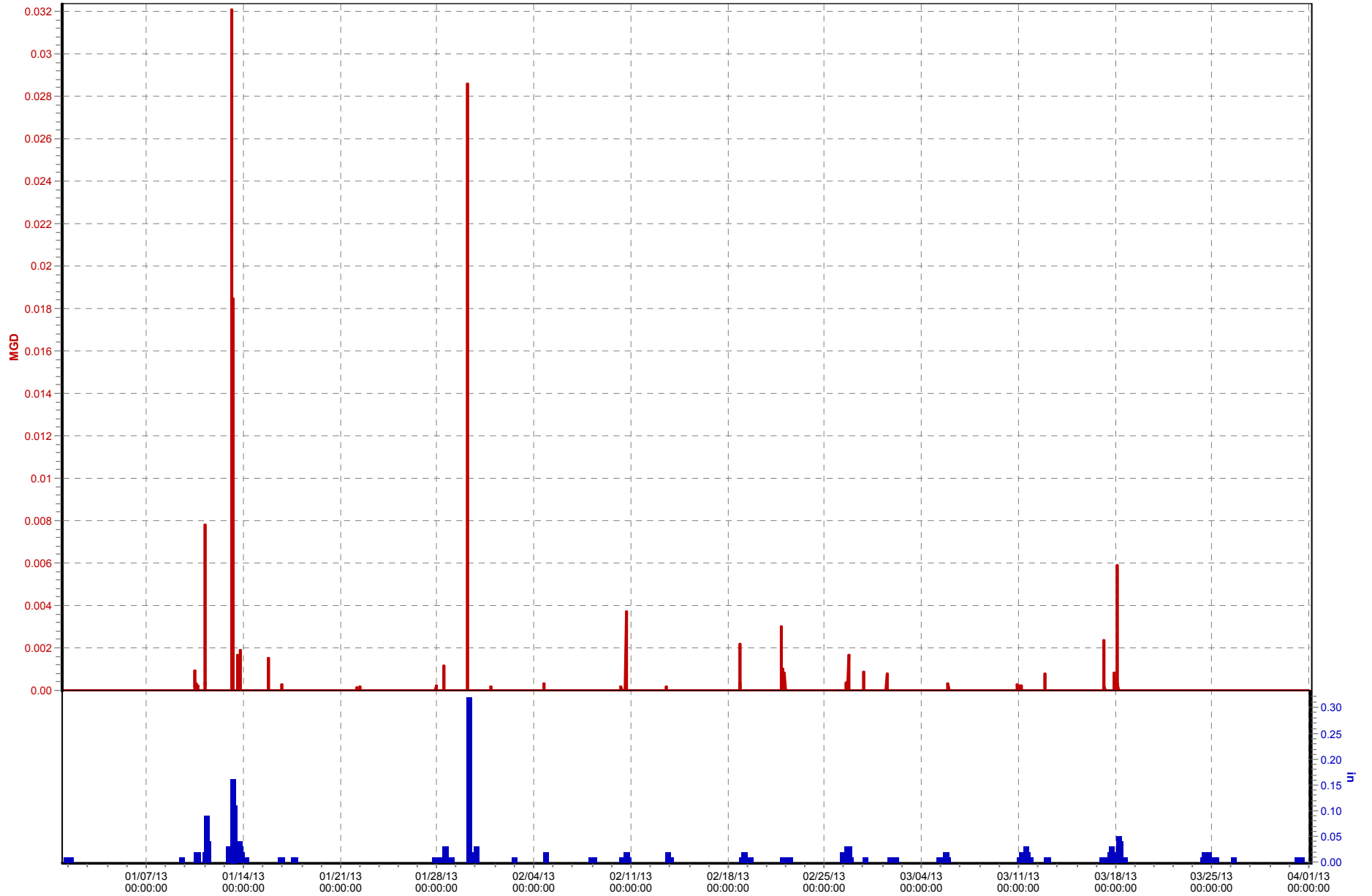
CSO055 6th St (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



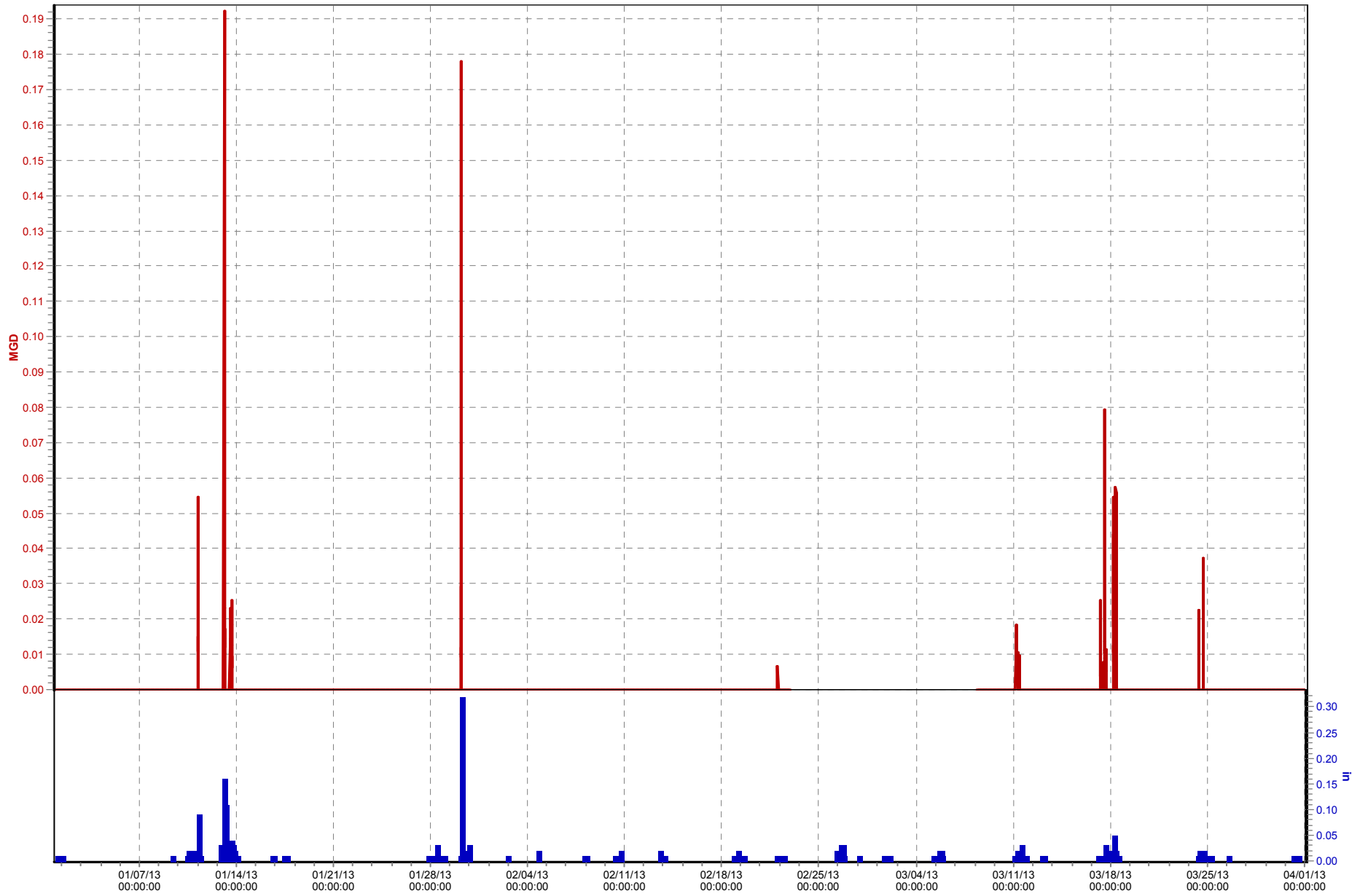
CSO057 1st and Main (01/01/13 to 04/01/13)

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



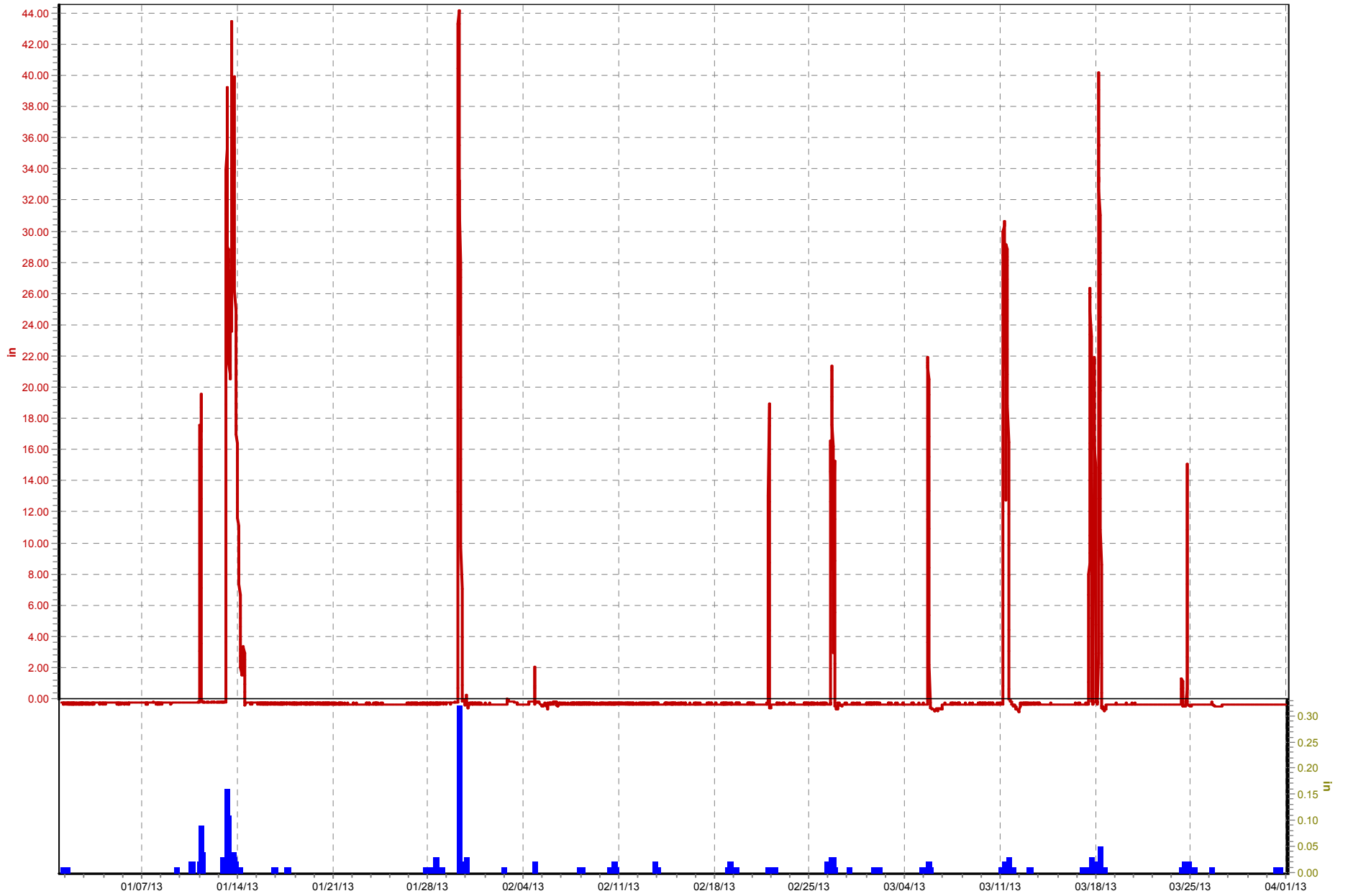
CSO058_Hist Pres and Main St (01/01/13 to 04/01/13)

Flow 1 (MGD) CSO058.Flow 1 (MGD) TR05_Beargrass PS.Rain (in)



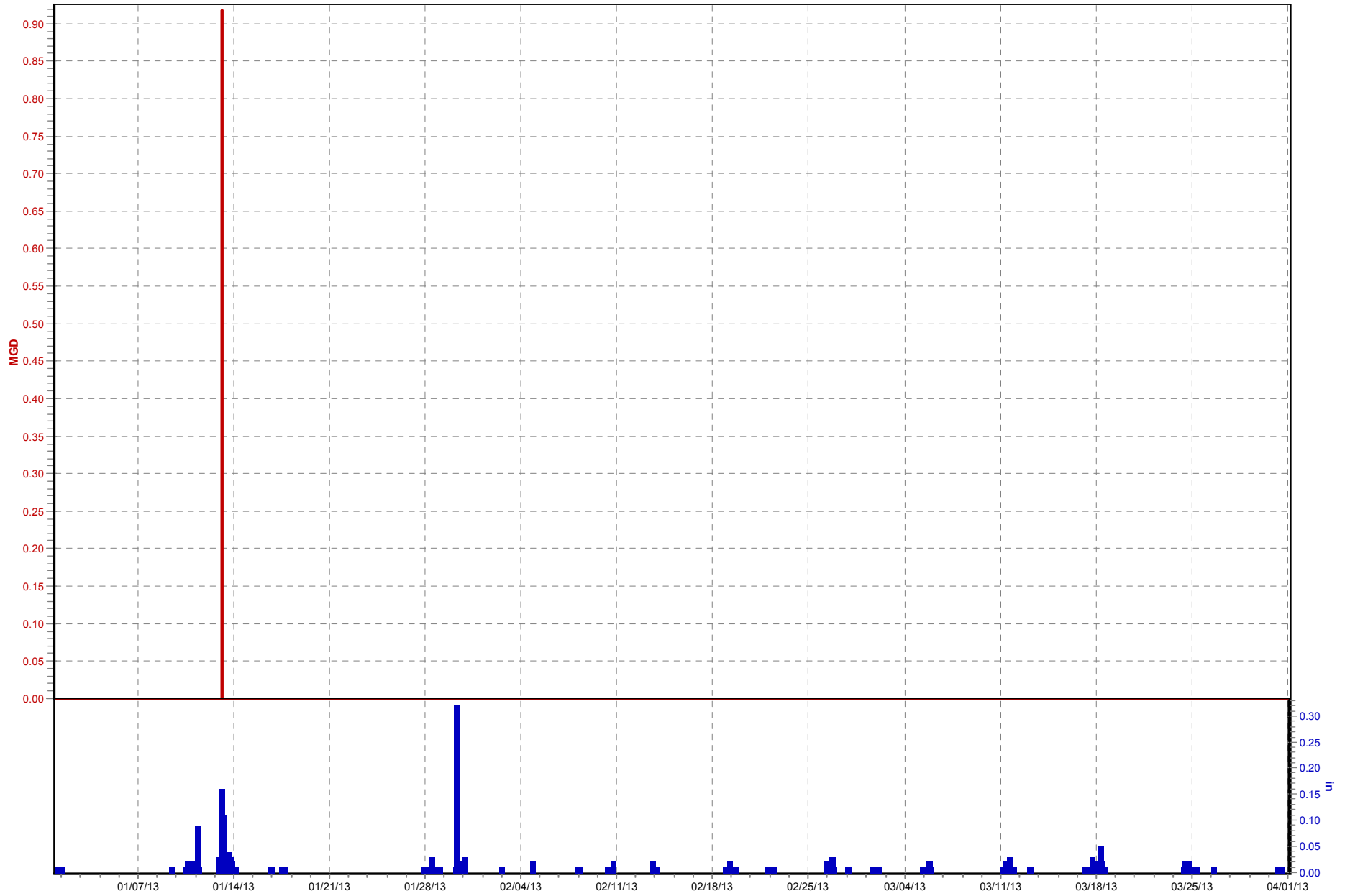
CSO082 Lex Rd (01/01/13 to 04/01/13)

Level (in) TR05_Beargrass PS.Rain (in)



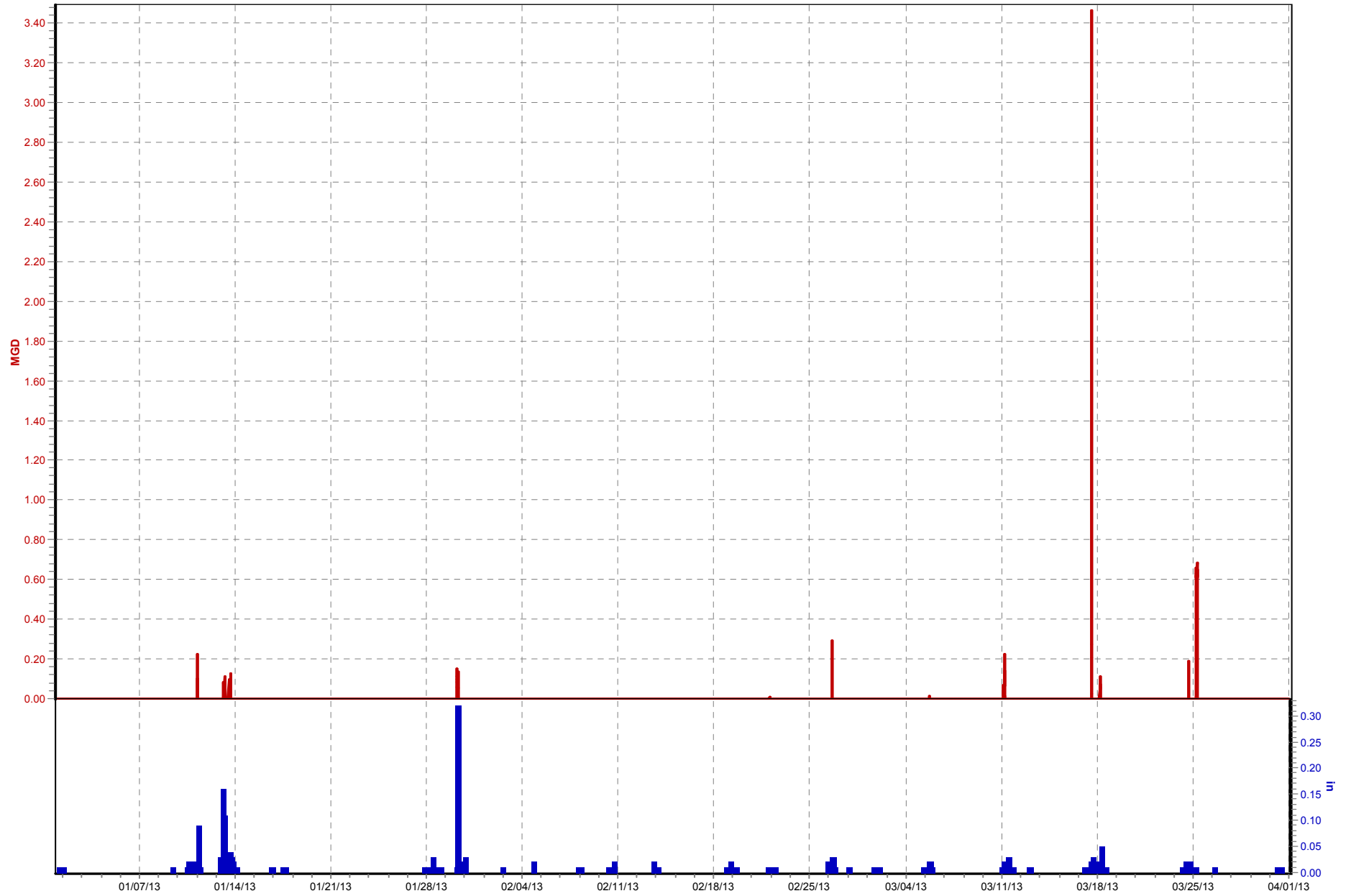
CSO083 E Broadway (01/01/13 to 04/01/13)

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



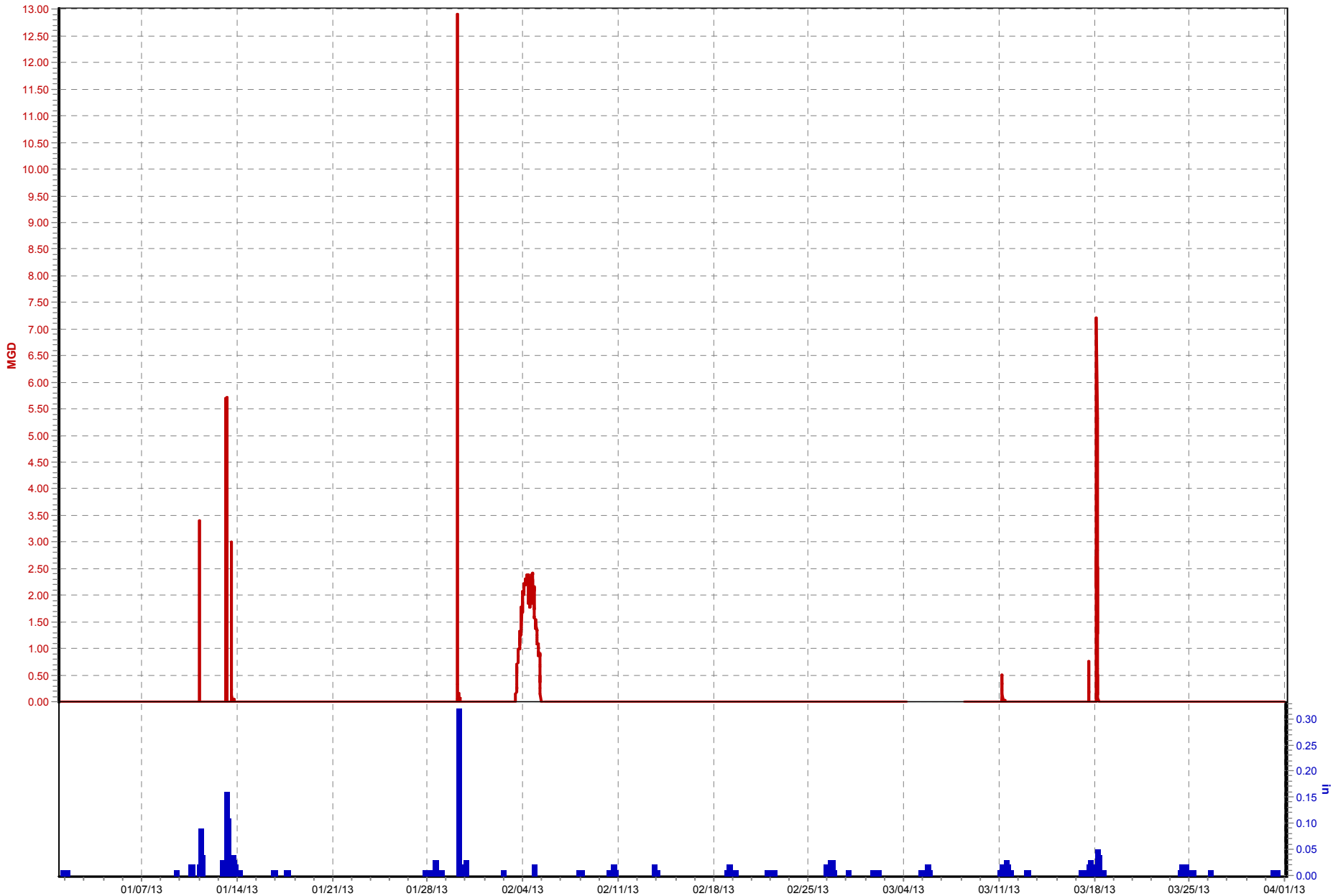
CSO084 Brent St and BGC (01/01/13 to 04/01/13)

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



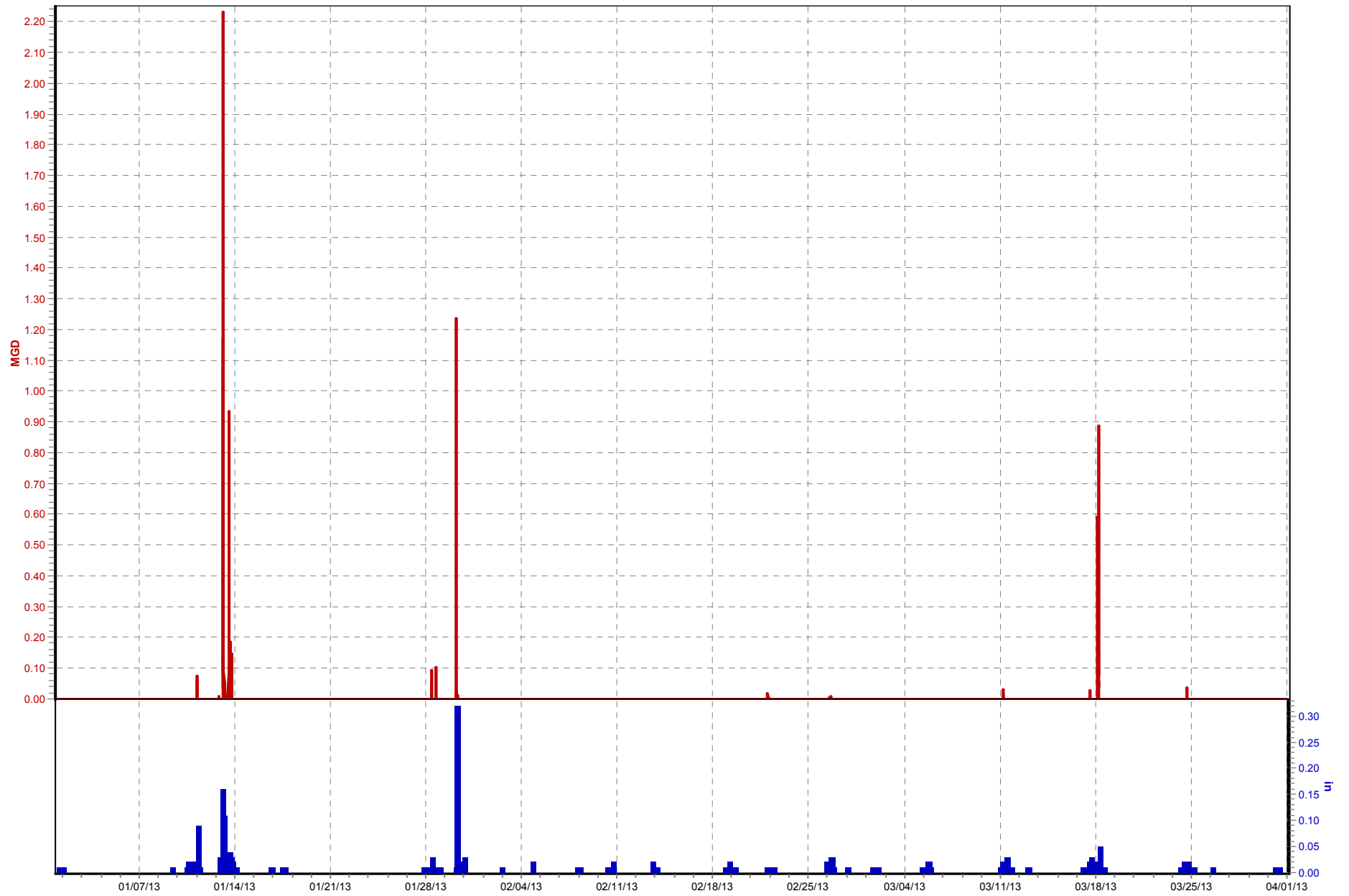
CSO088 Brownsboro Rd-BGC (01/01/13 to 04/01/13)

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



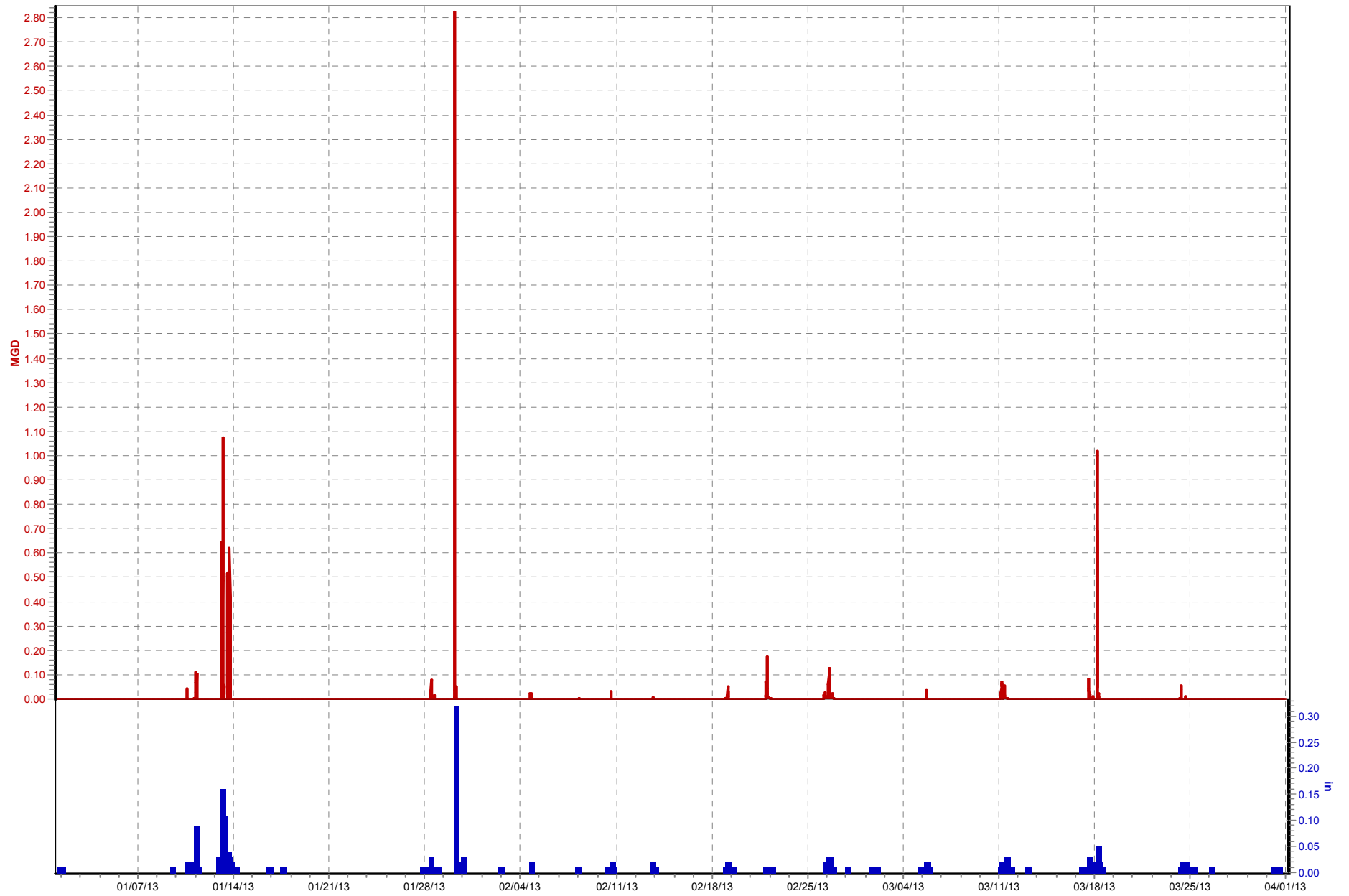
CSO091 Schiller Ave (01/01/13 to 04/01/13)

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



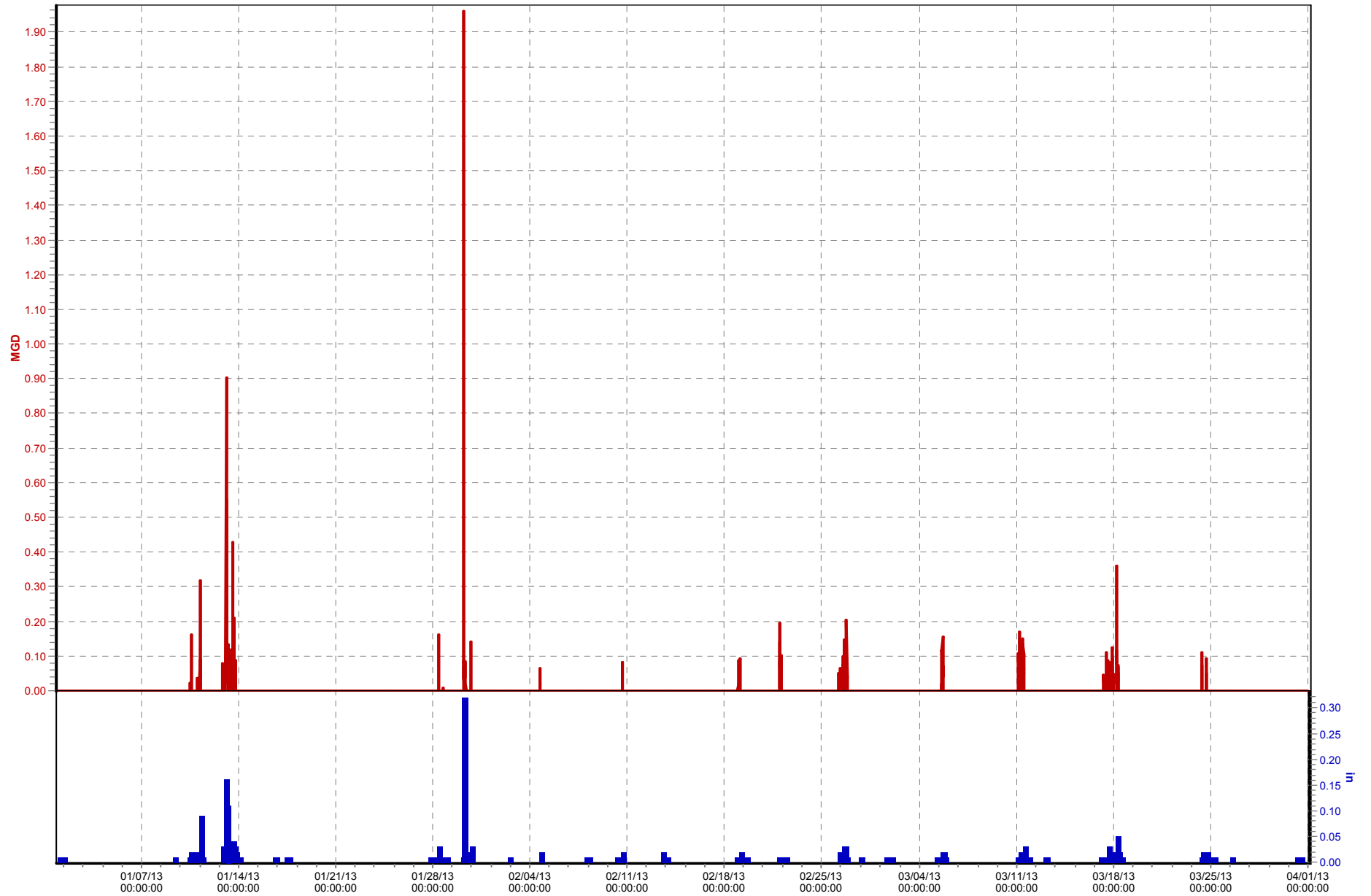
CSO092 Schiller Ave (01/01/13 to 04/01/13)

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



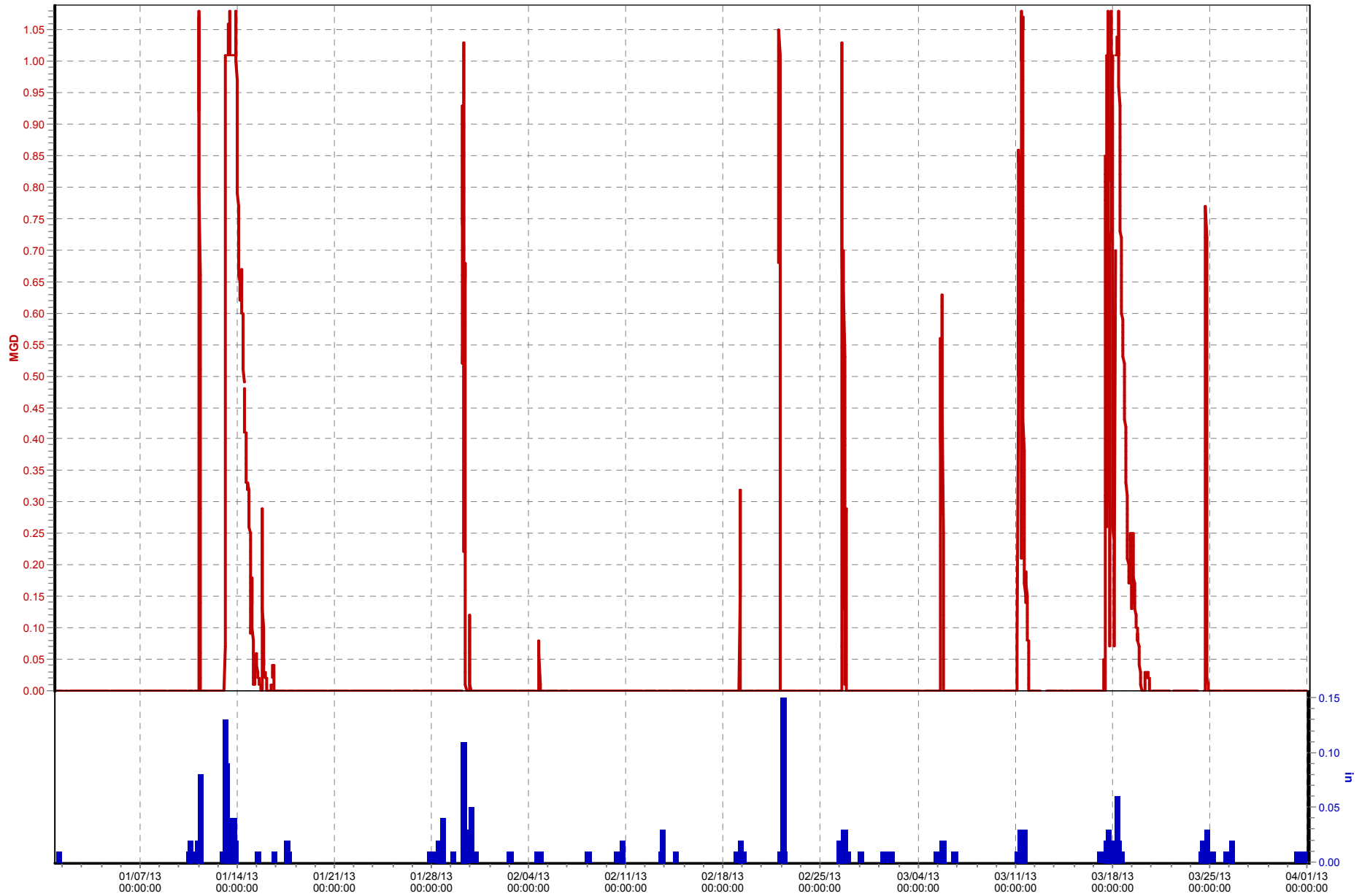
CSO093 Mellwood Ave (01/01/13 to 04/01/13)

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



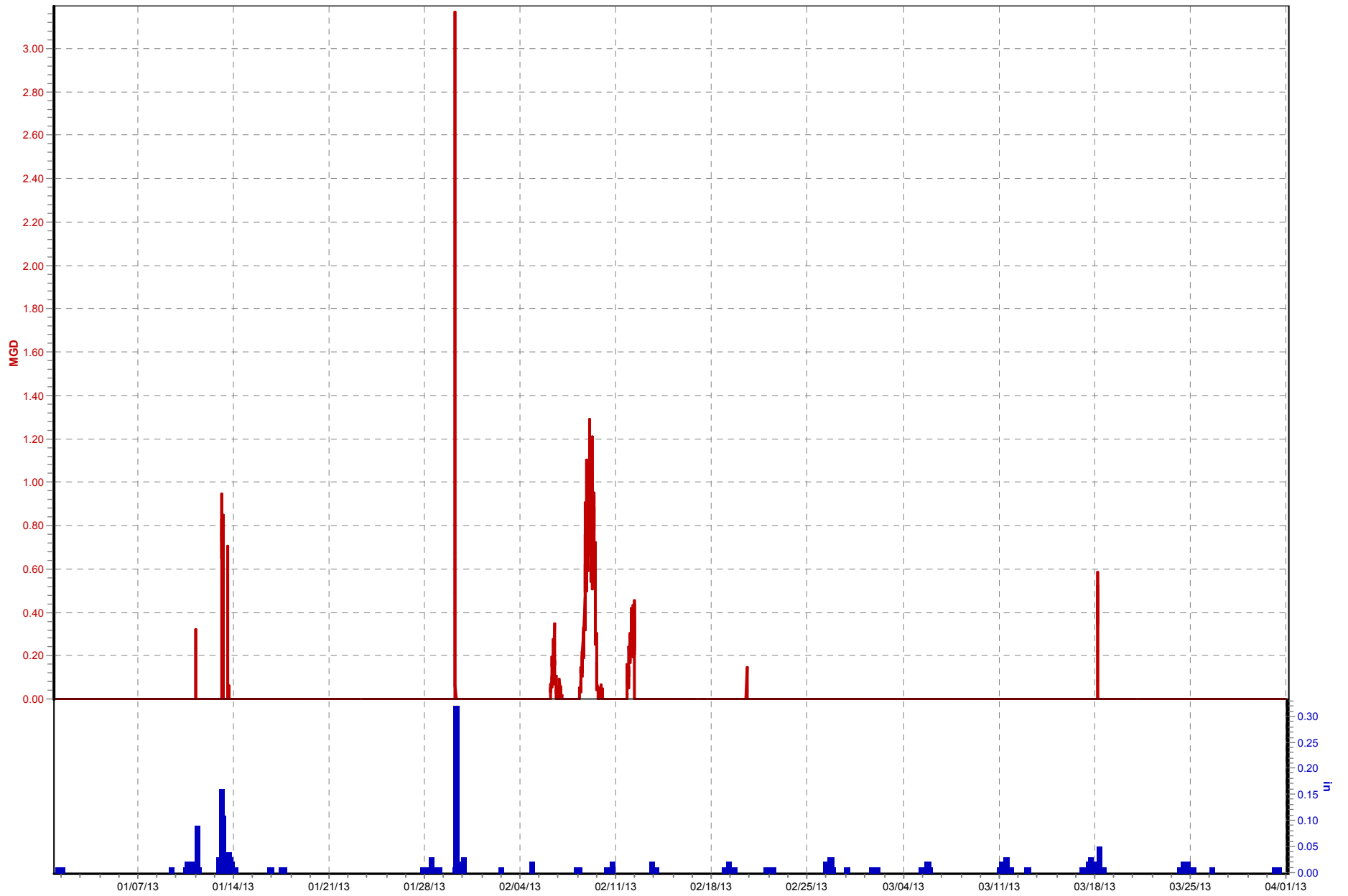
CSO097 Castlevale Dr (01/01/13 to 04/01/13)

C097_FLOW_MGD (MGD) TR12_Nightingale PS.Rain (in)



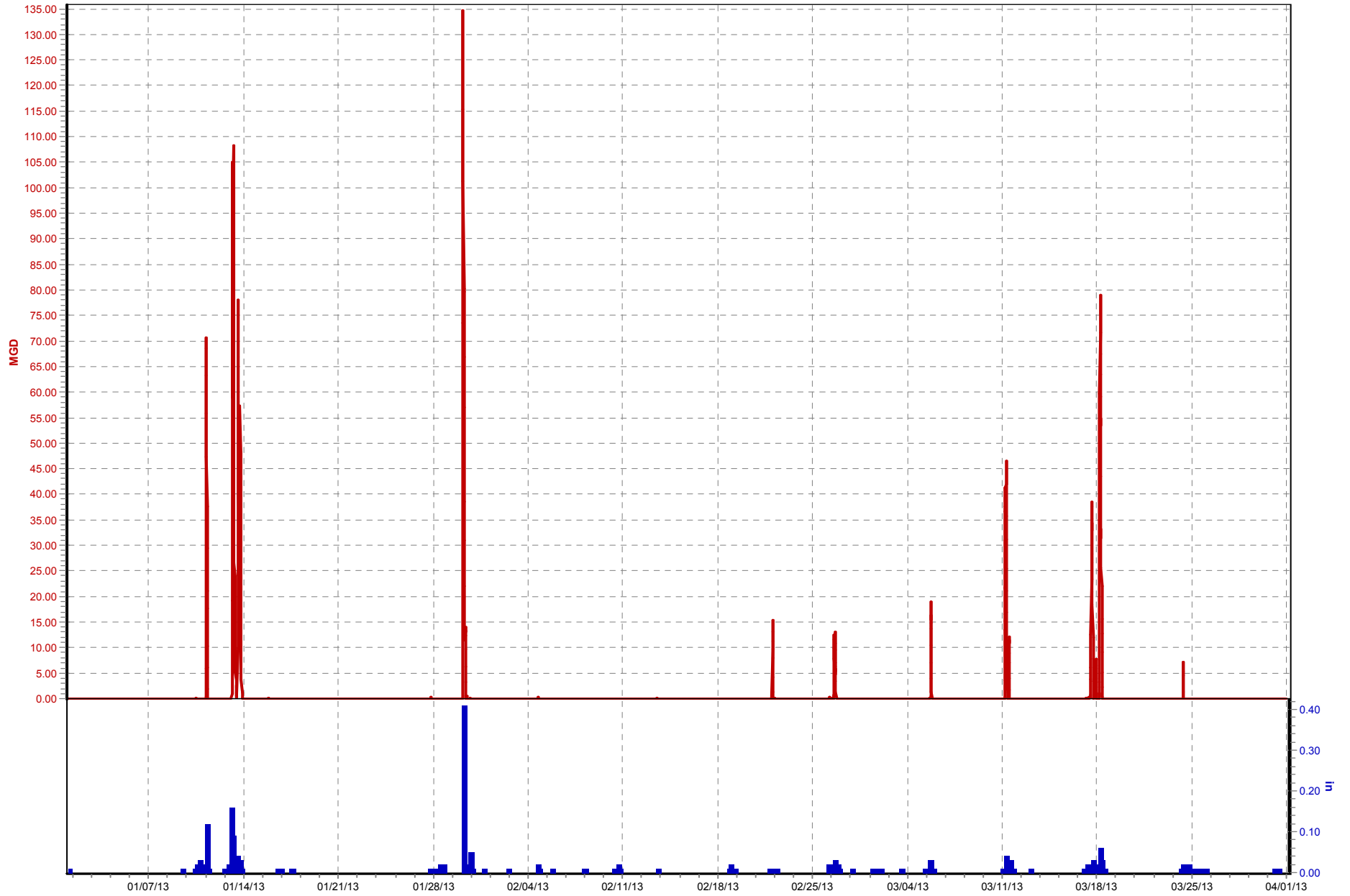
CSO104 SWest Pkwy and Broadway (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



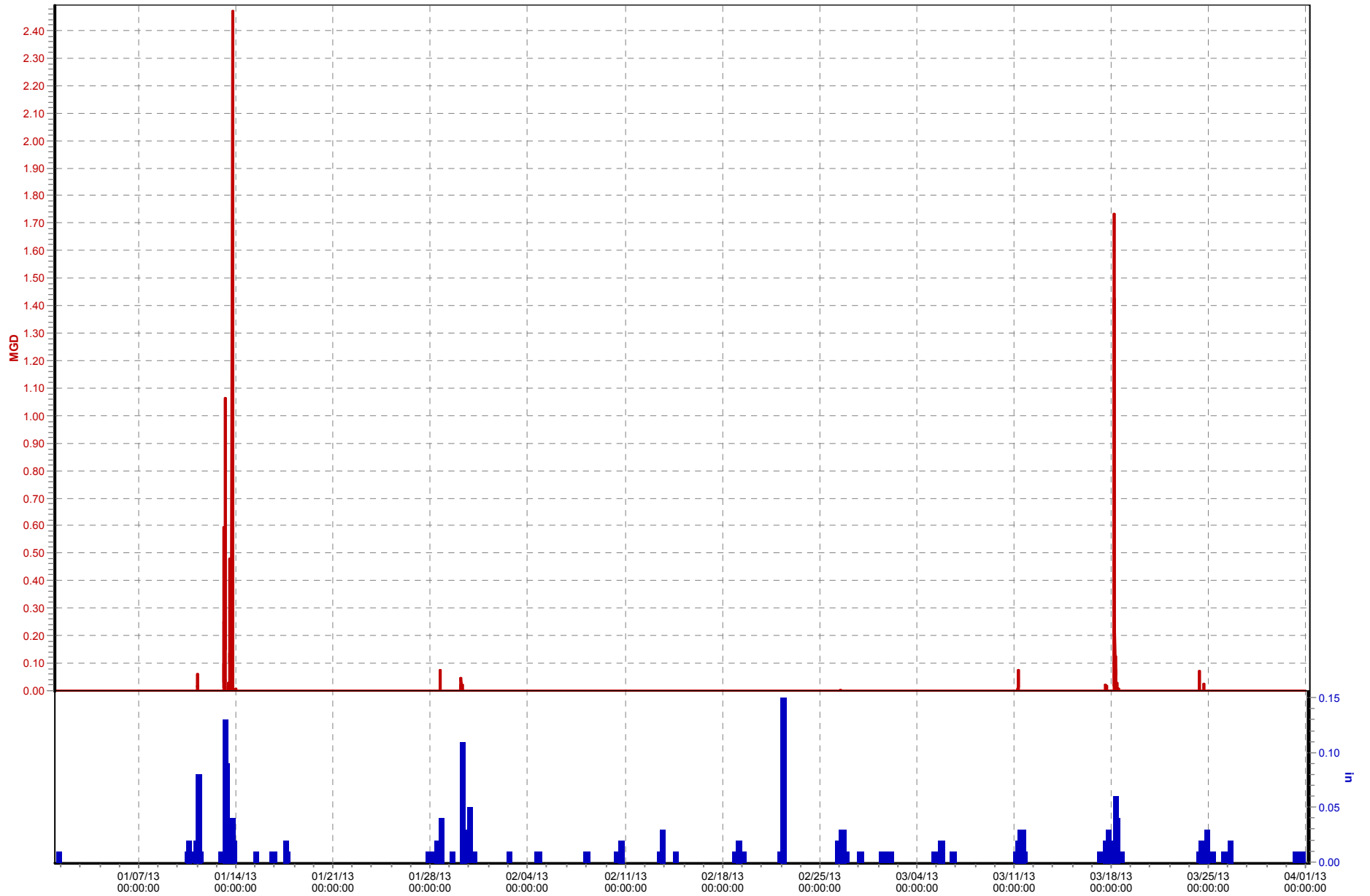
CSO105 Broadway and SWest Pkwy (01/01/13 to 04/01/13)

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



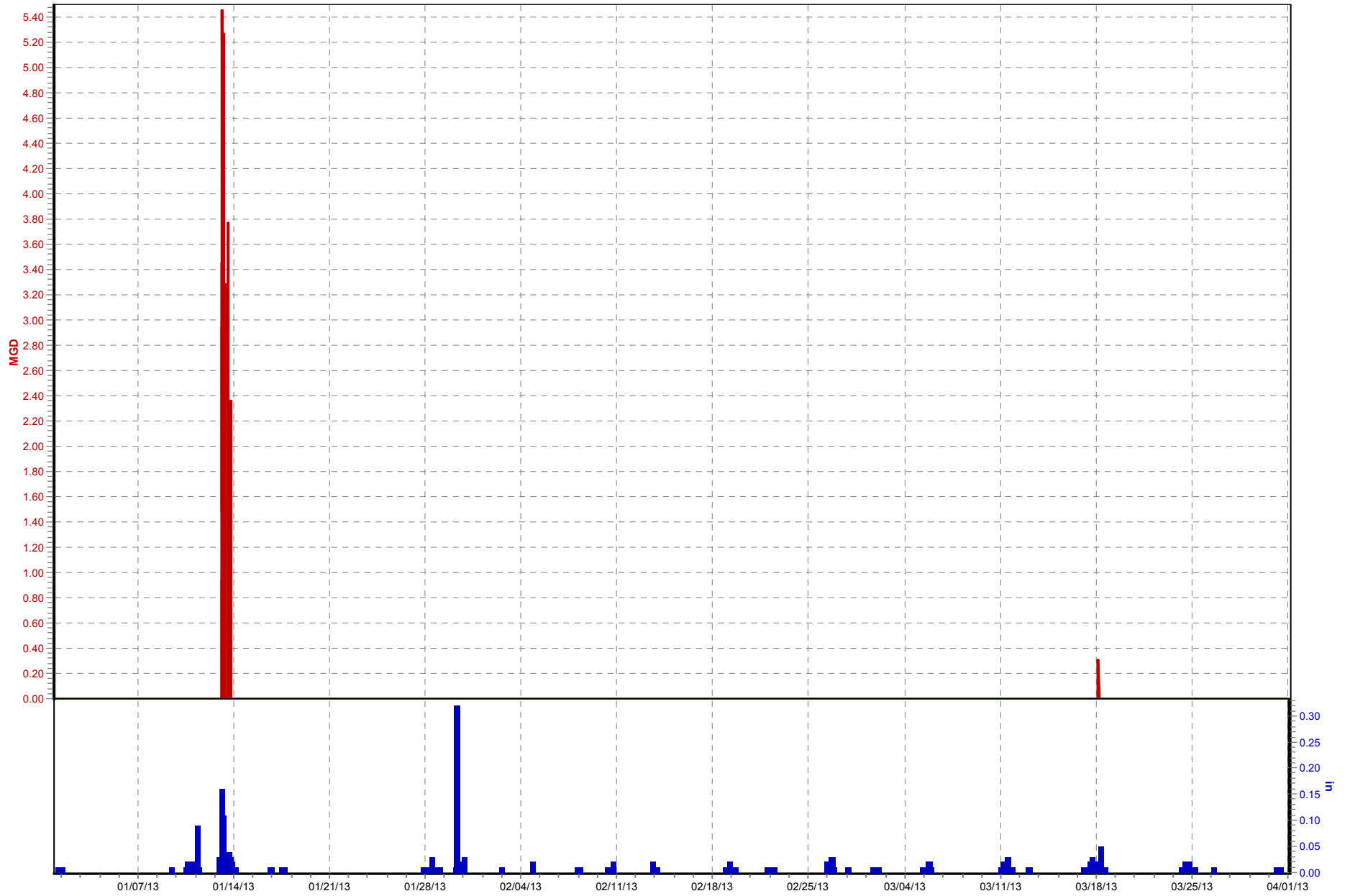
CSO106 Castlevale Dr (01/01/13 to 04/01/13)

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



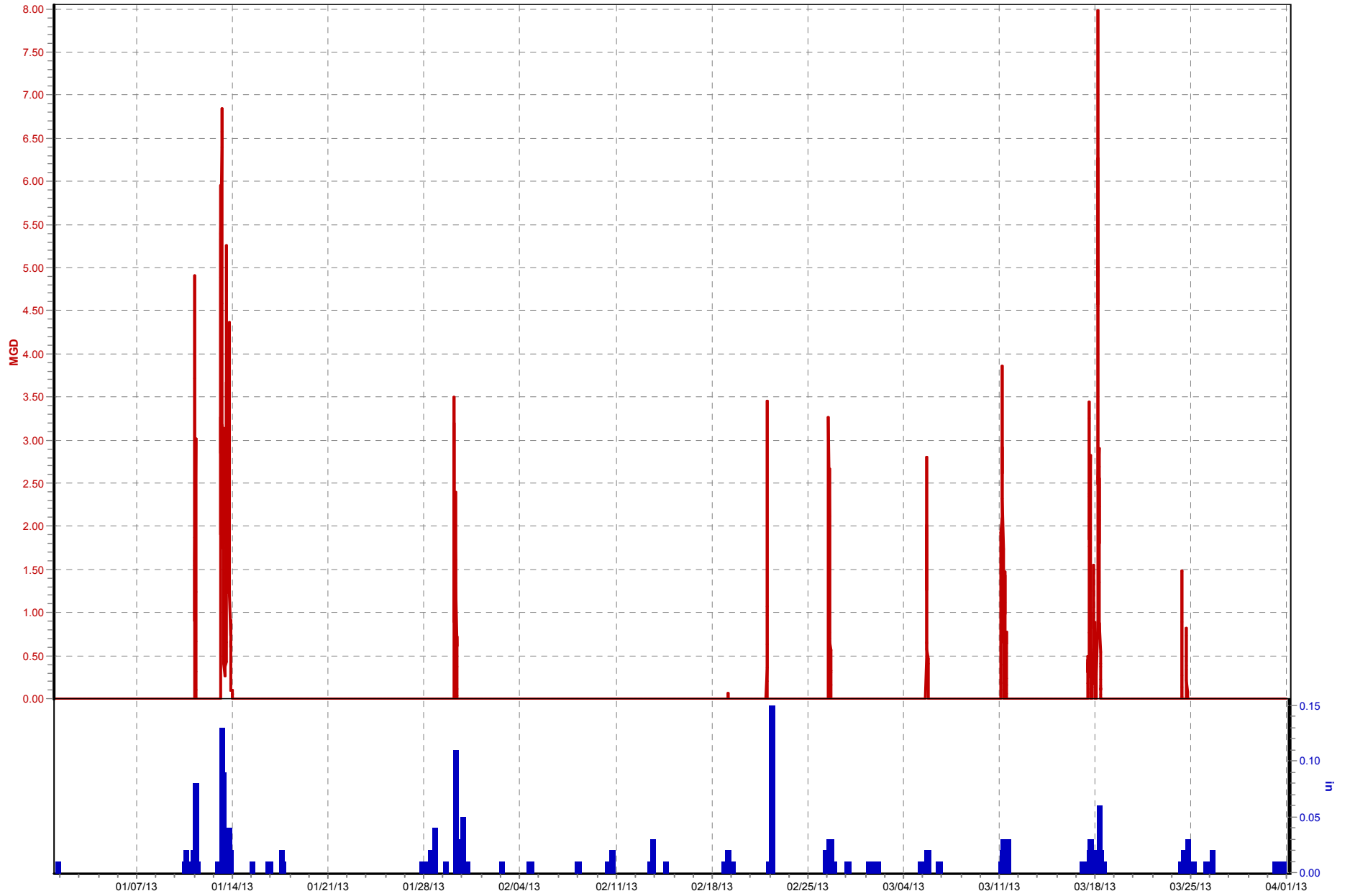
CSO109 Newburg Rd (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



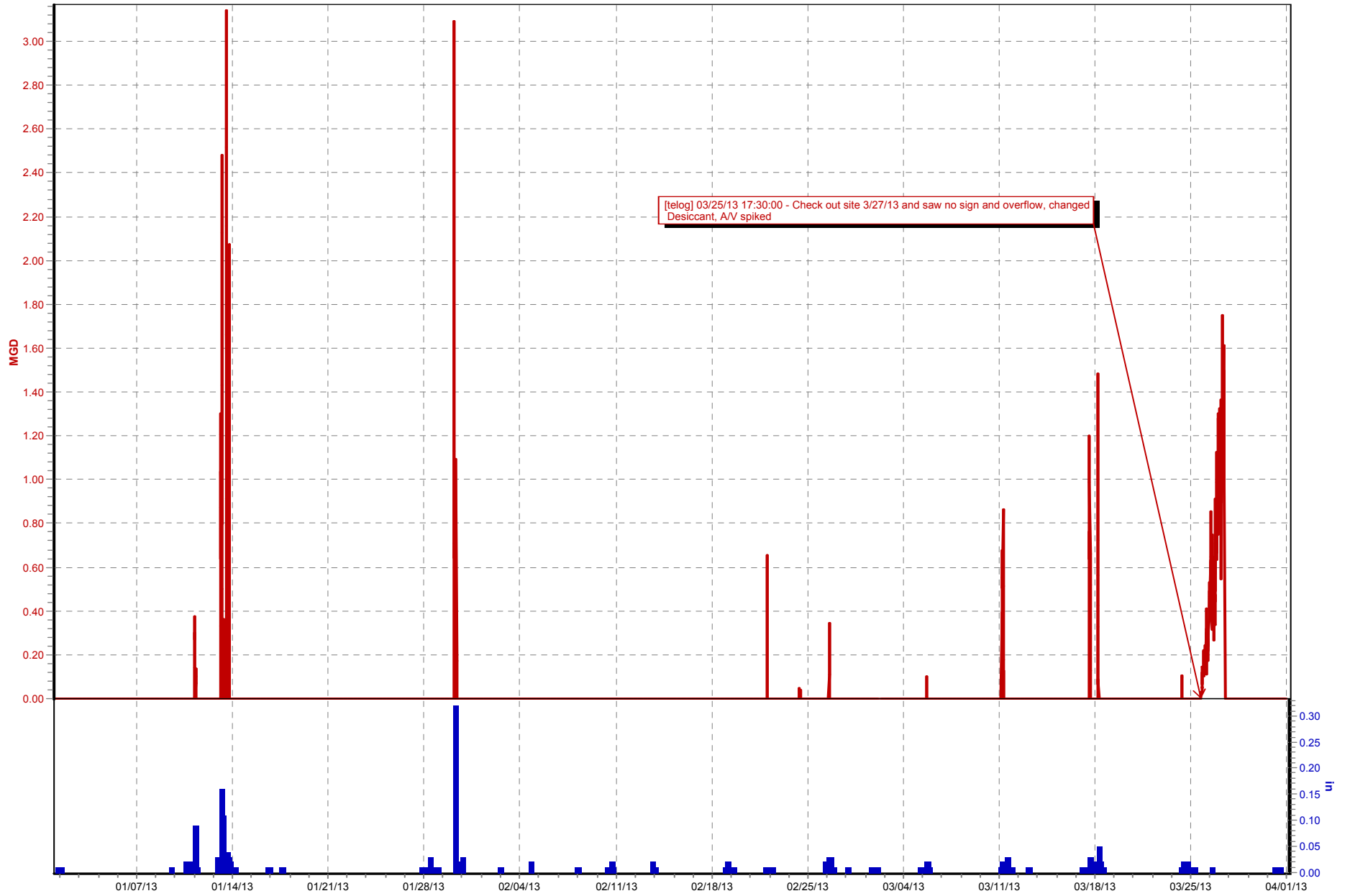
CSO110 Eastern Pkwy and BGC (01/01/13 to 04/01/13)

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



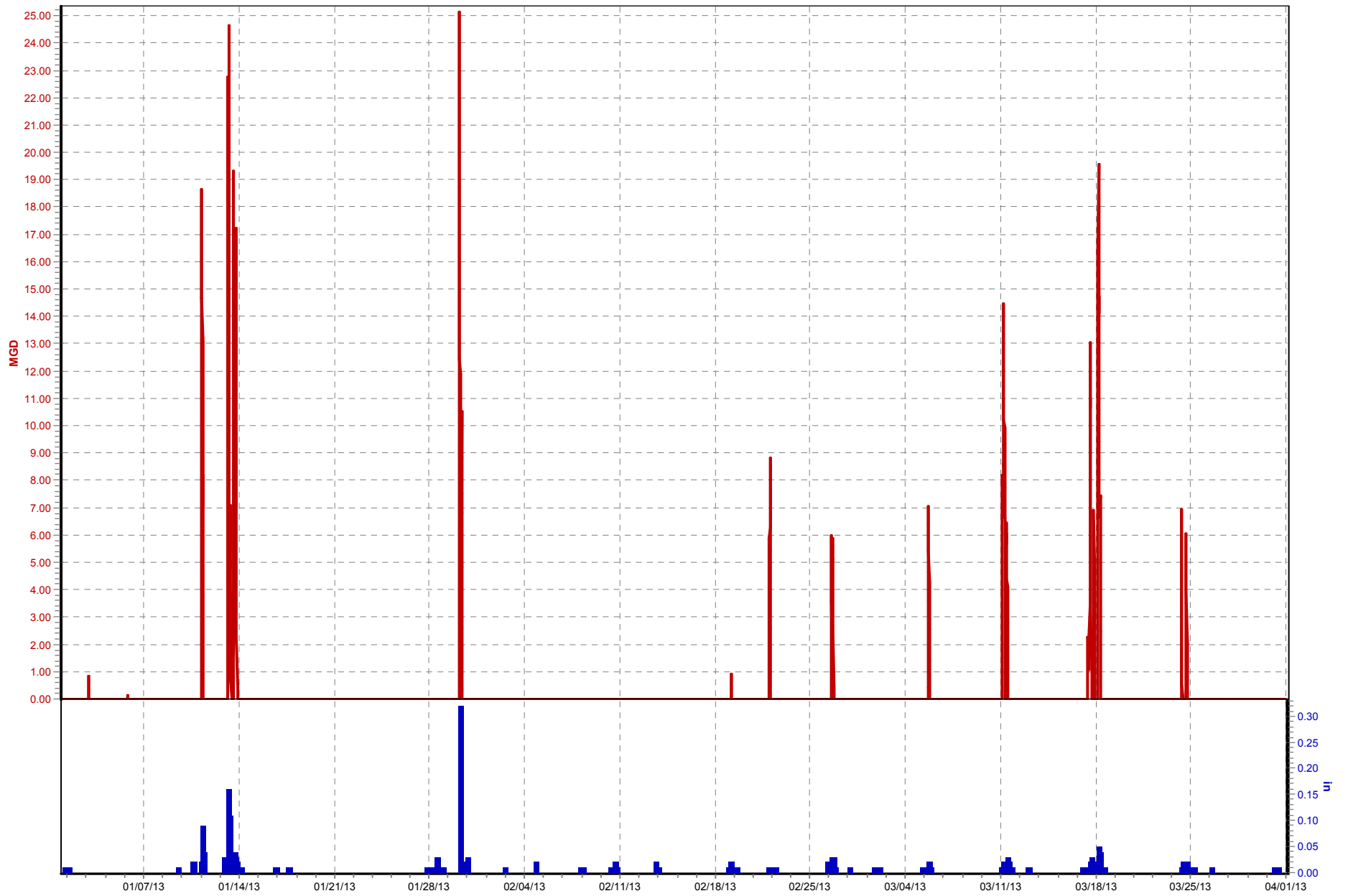
CSO111 Eastern Pkwy and BGC (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



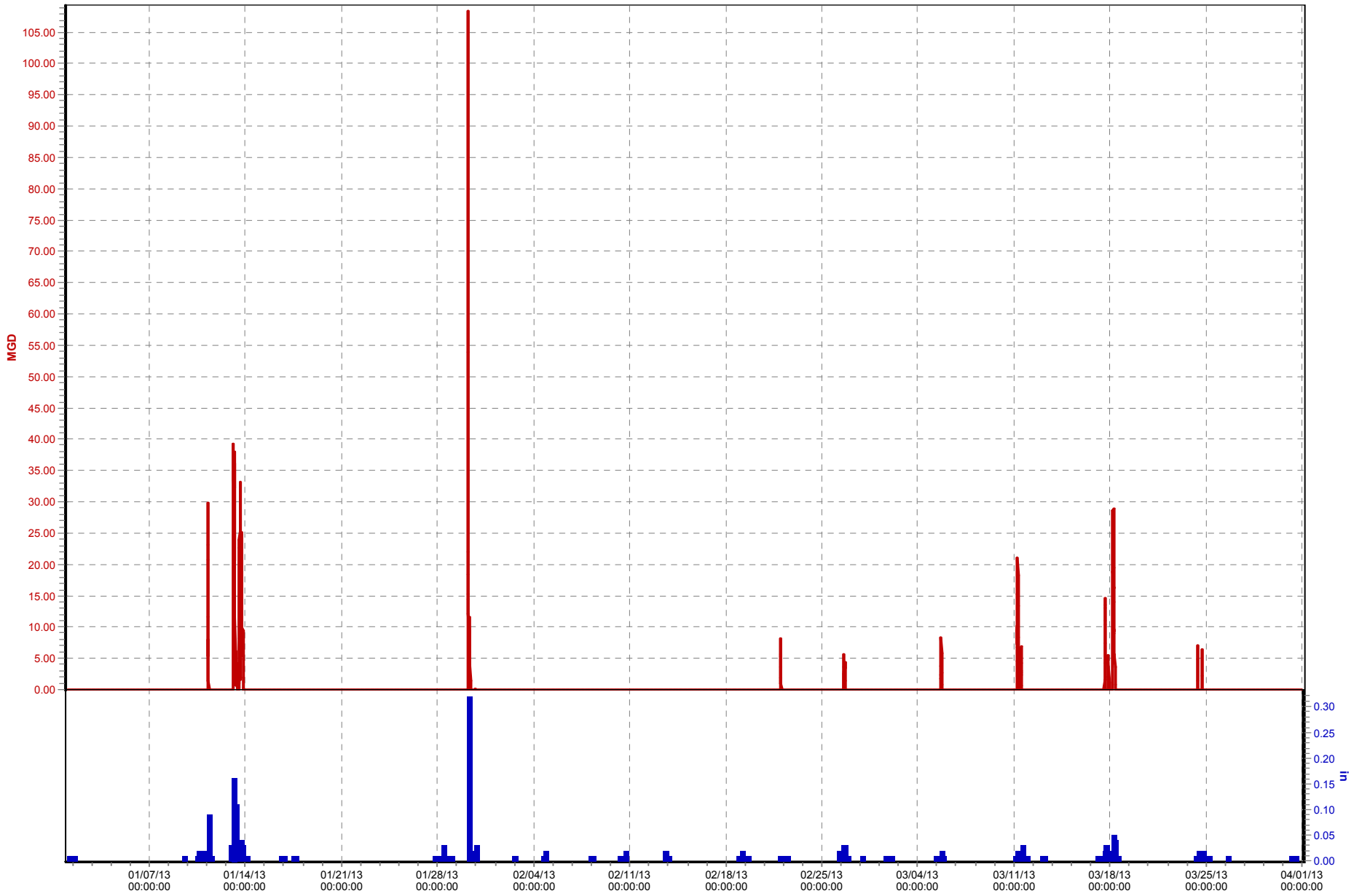
CSO117 Dry Sewer and BGC Logan (01/01/13 to 04/01/13)

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



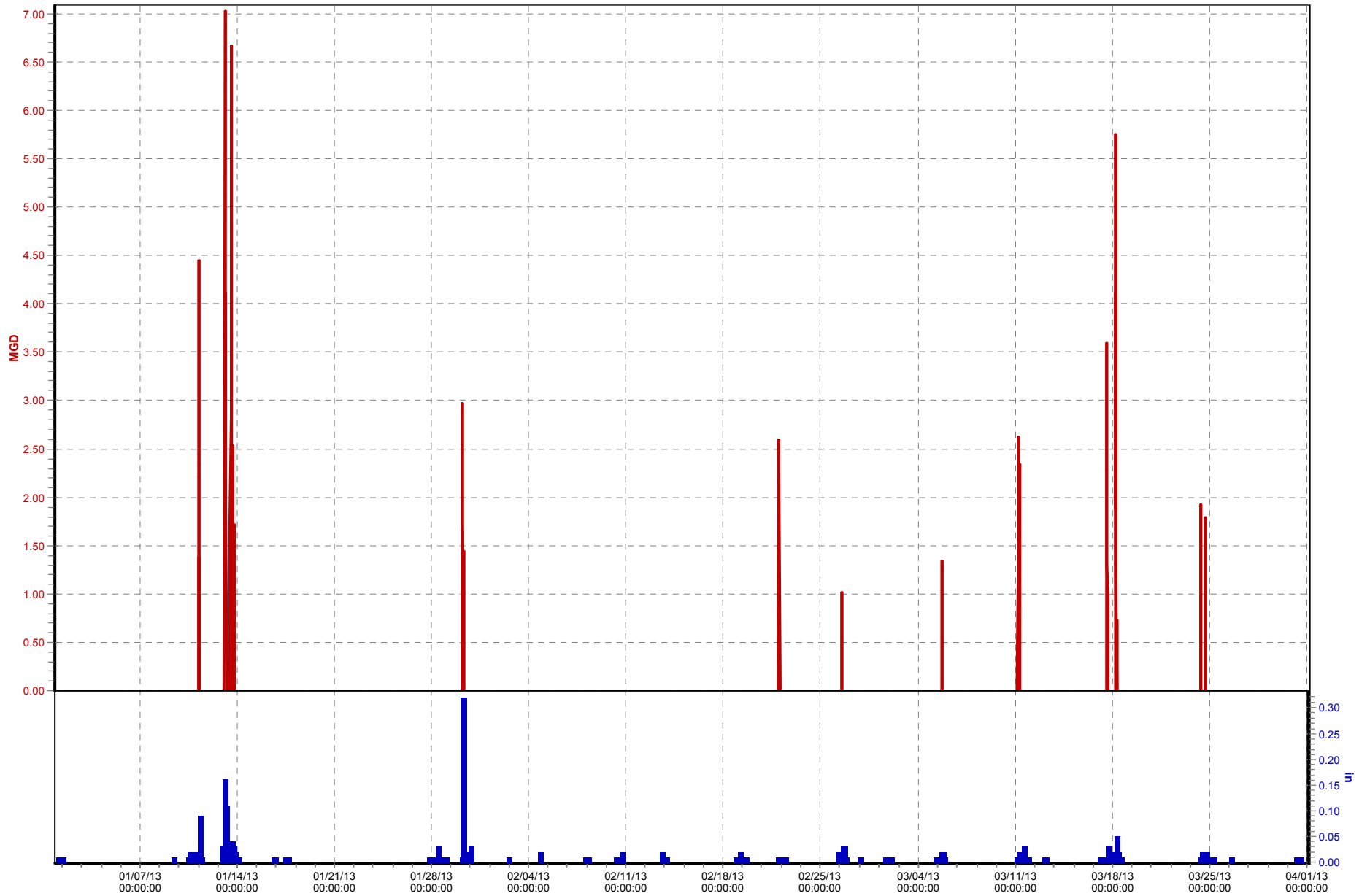
CSO118 Broadway and BGC (01/01/13 to 04/01/13)

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



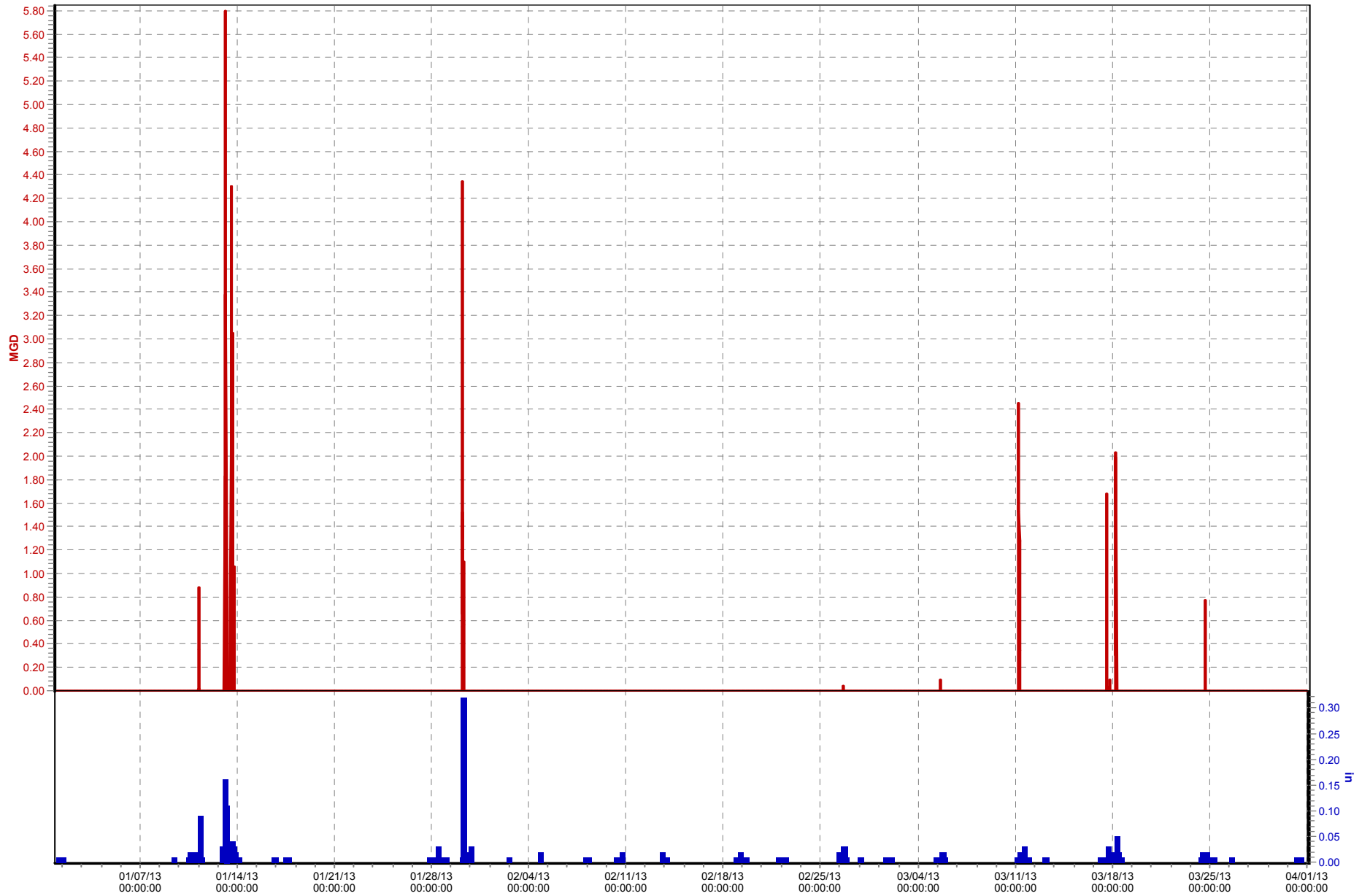
CSO120 Hamilton Ave (01/01/13 to 04/01/13)

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



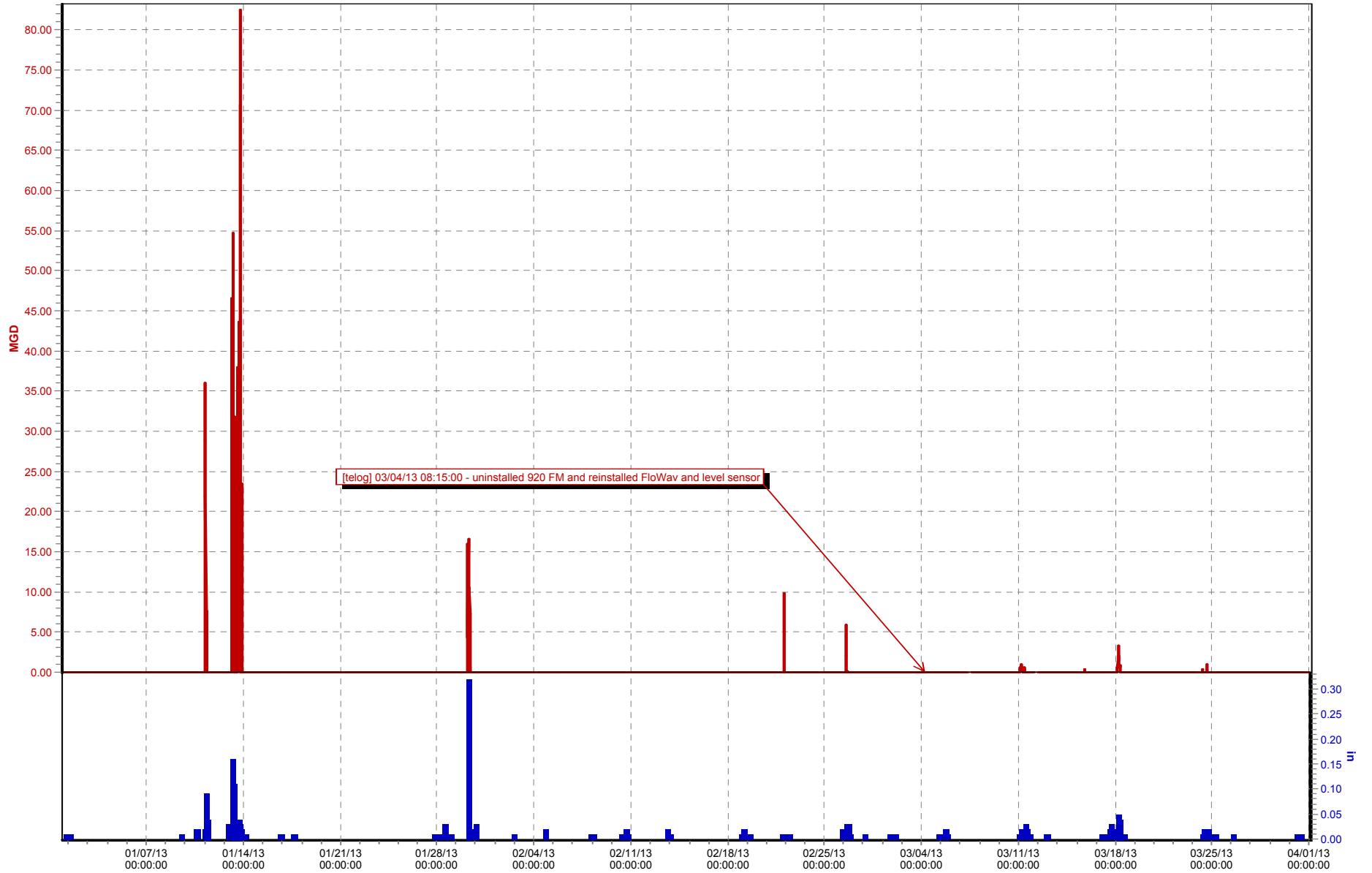
CSO121 Baxter and BGC (01/01/13 to 04/01/13)

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



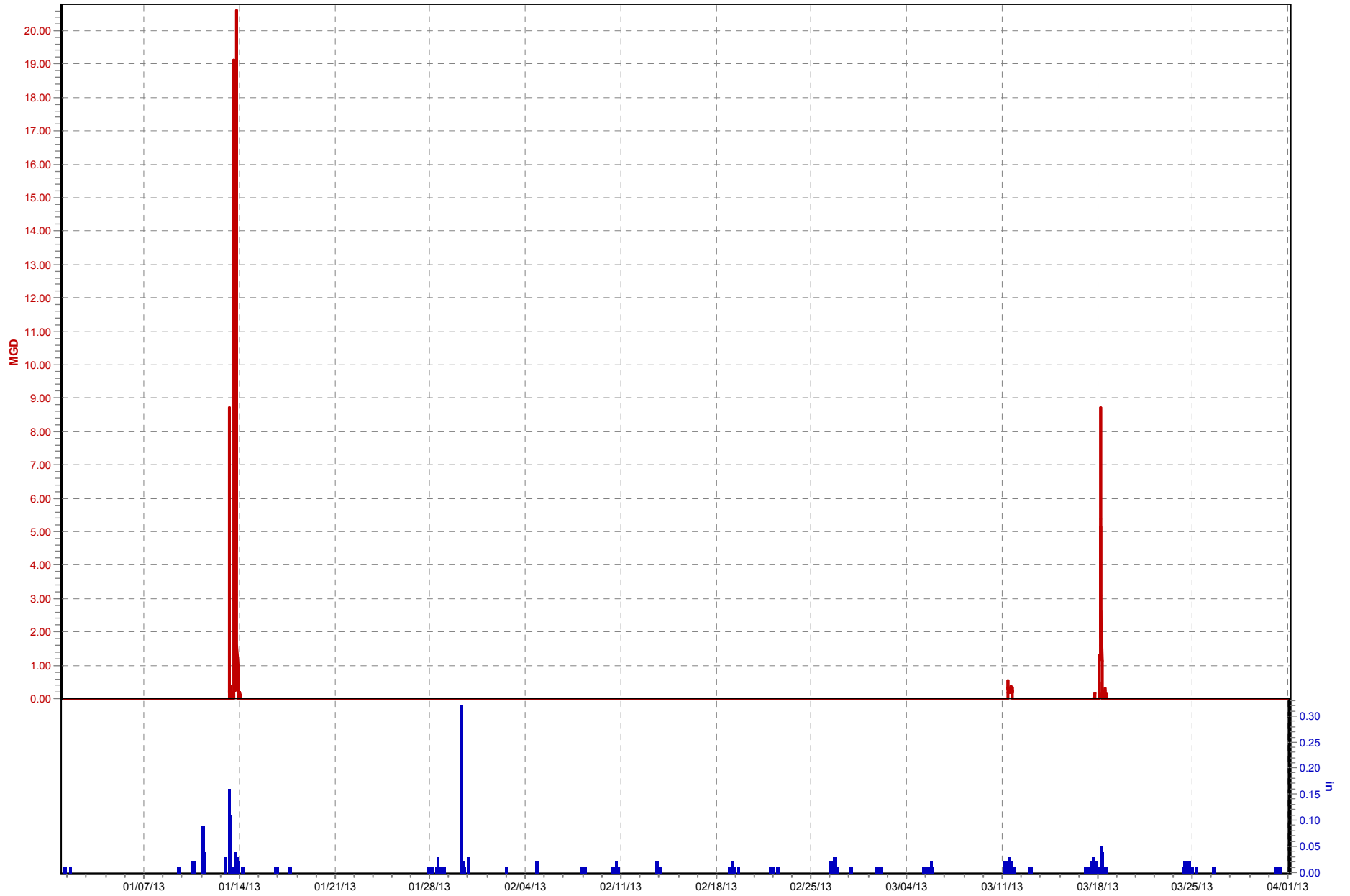
CSO125 Grinstead Dr I64W Ramp (01/01/13 to 04/01/13)

Flow (MGD) CSO125_Hist.Flow 1 (MGD) TR05_Beargrass PS.Rain (in)



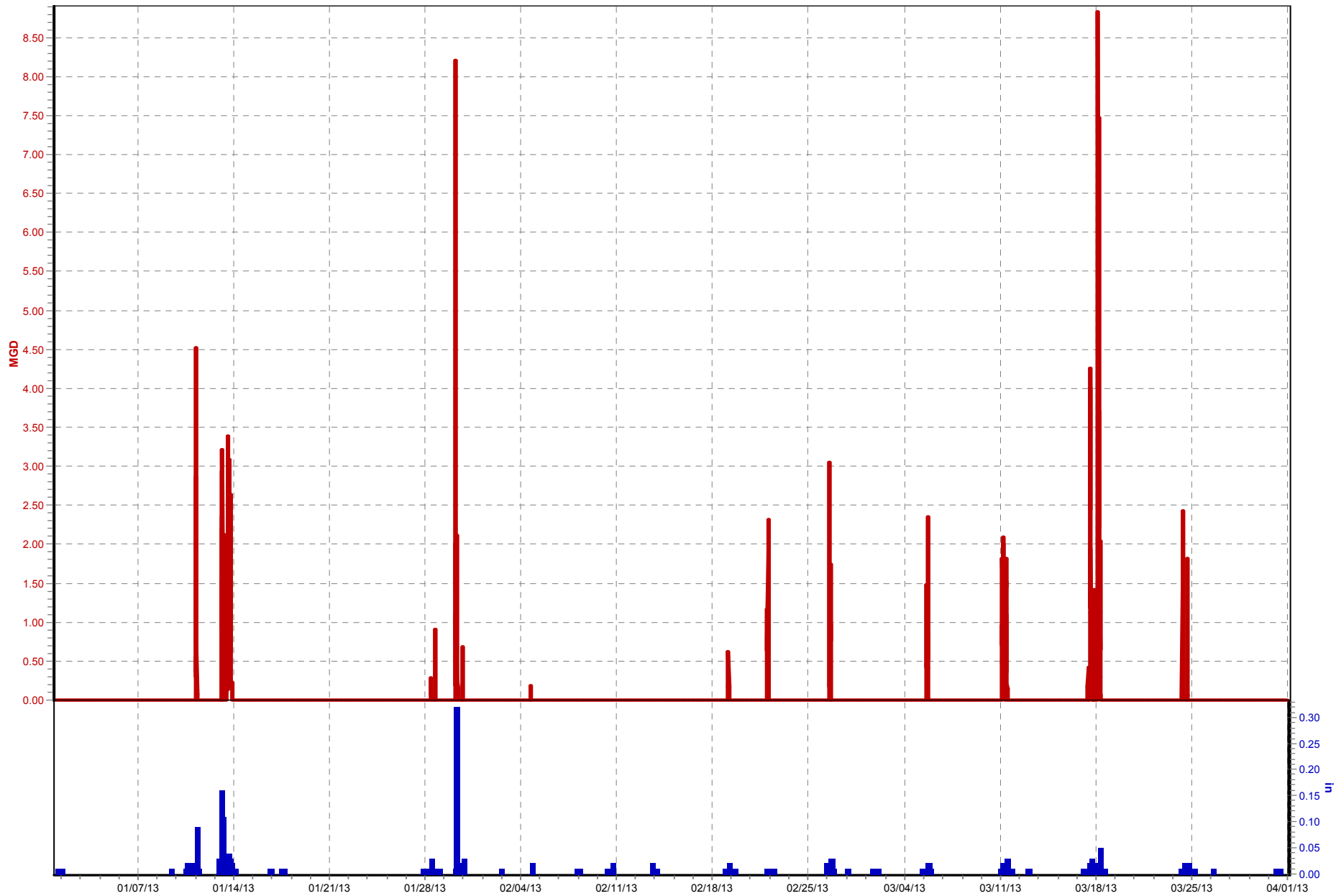
CSO126 (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



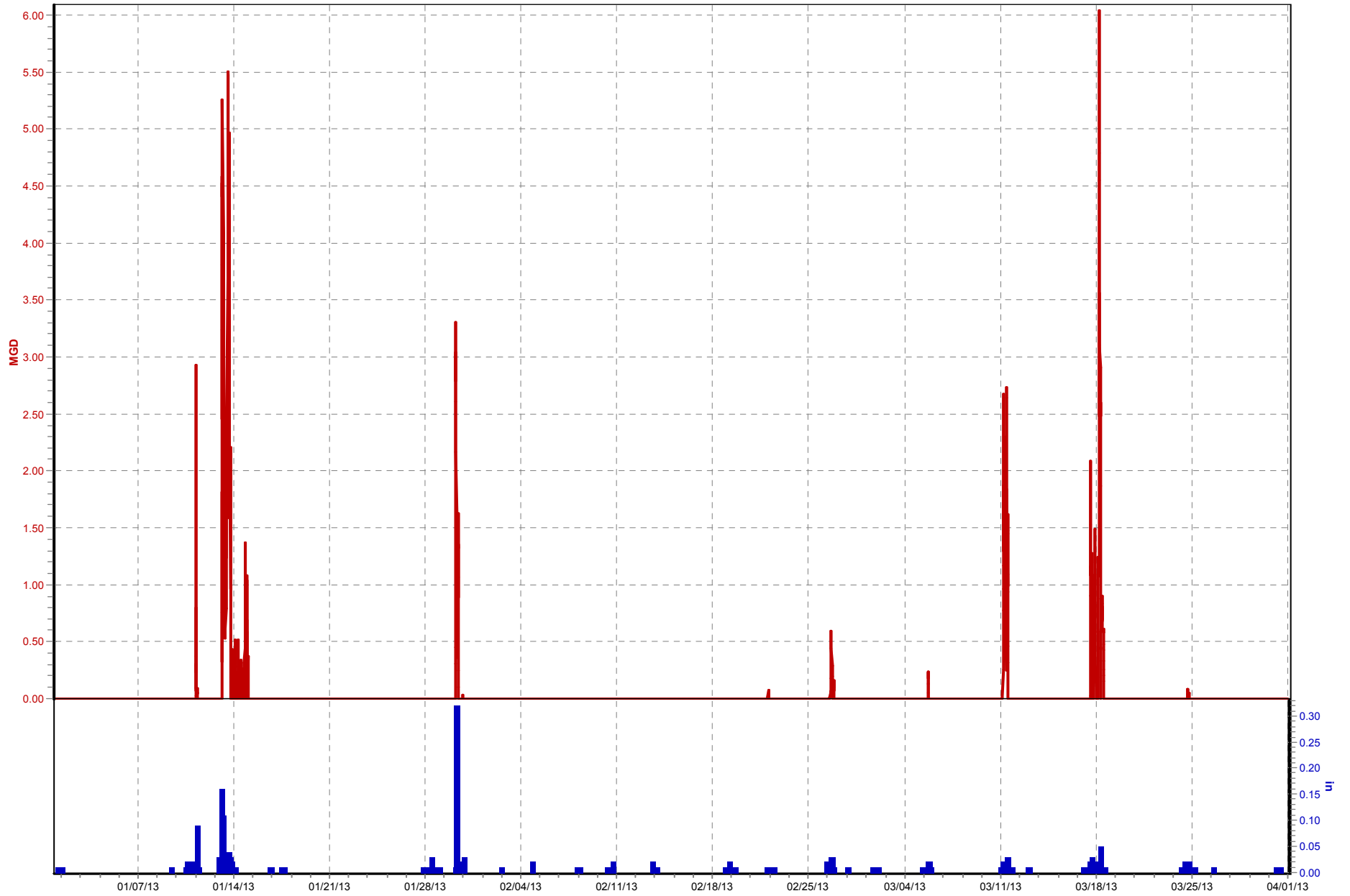
CSO127 Etle Ave and Lex Rd (01/01/13 to 04/01/13)

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



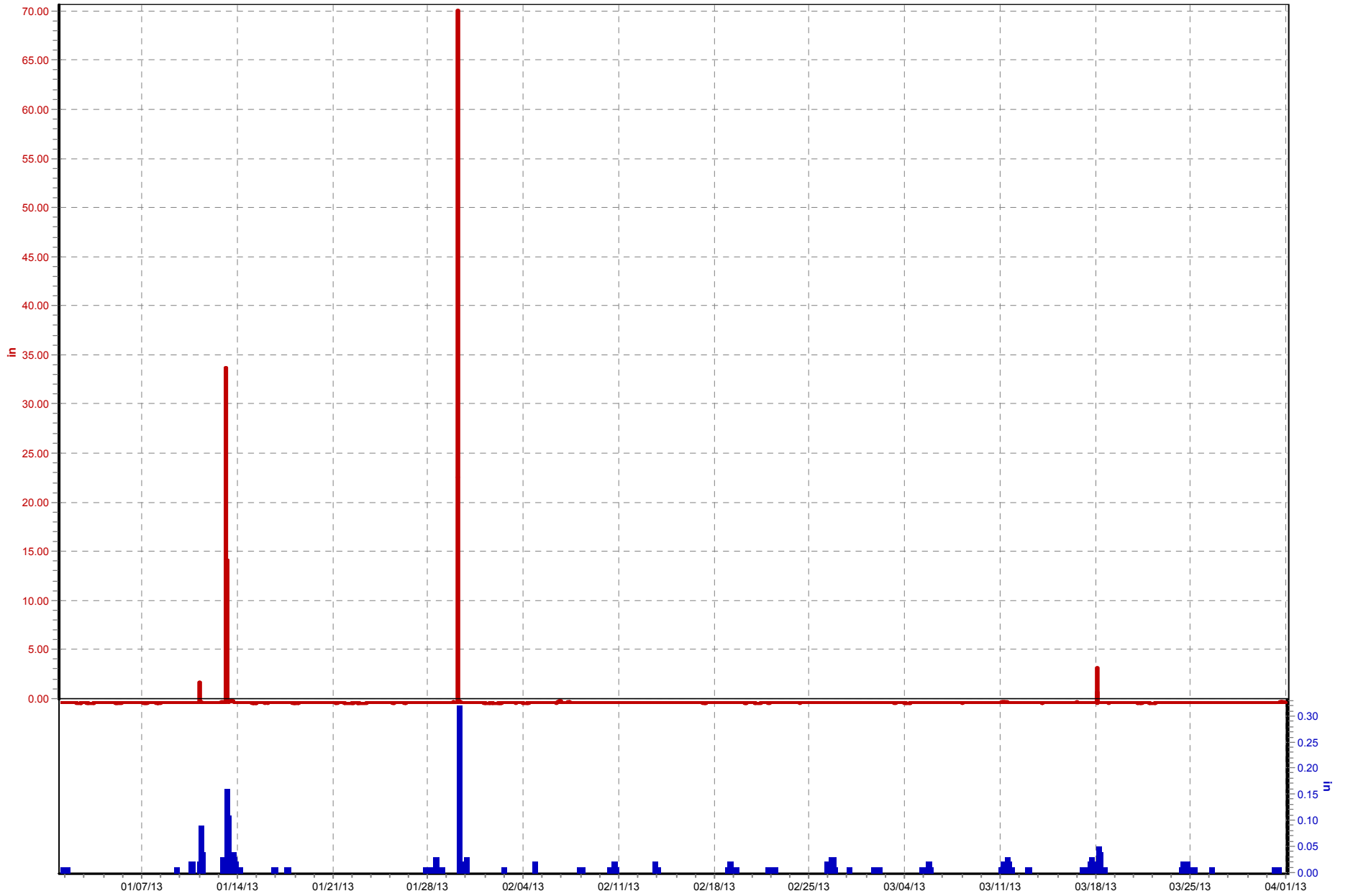
CSO130 Webster St n Story Ave (01/01/13 to 04/01/13)

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



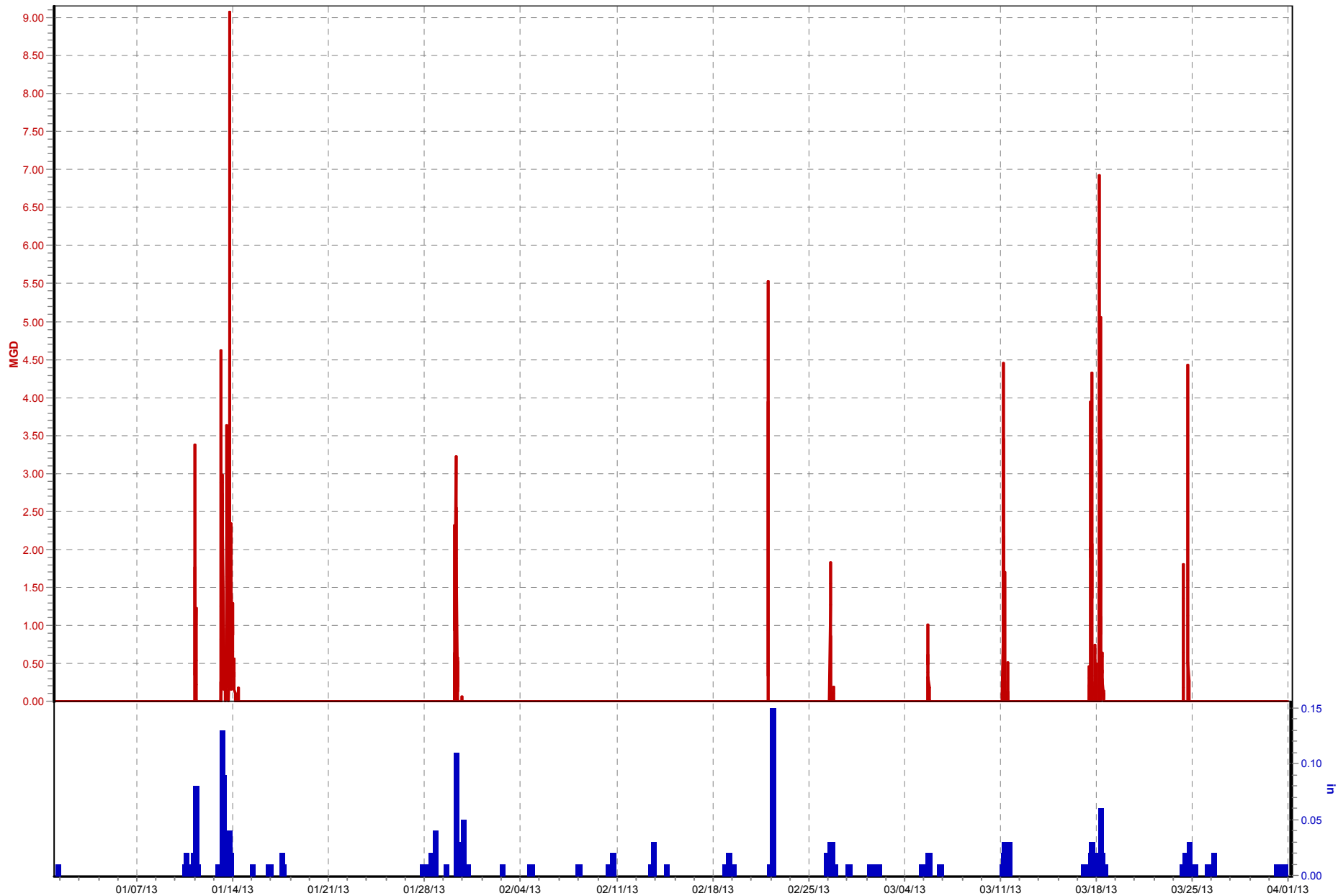
CSO131 Frankfort Ave (01/01/13 to 04/01/13)

level (in) TR05_Beargrass PS.Rain (in)



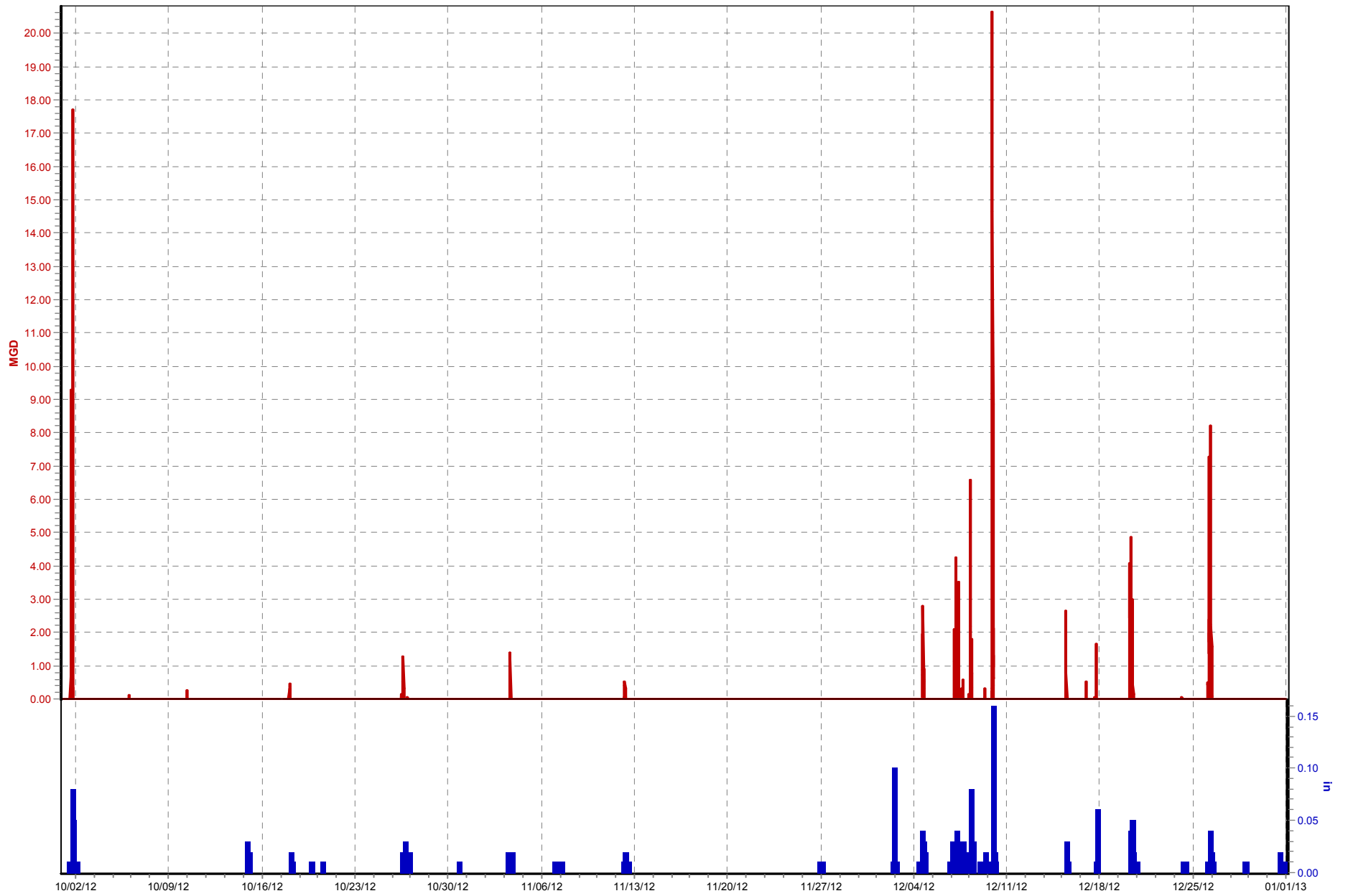
CSO132 Brownsboro Rd (01/01/13 to 04/01/13)

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



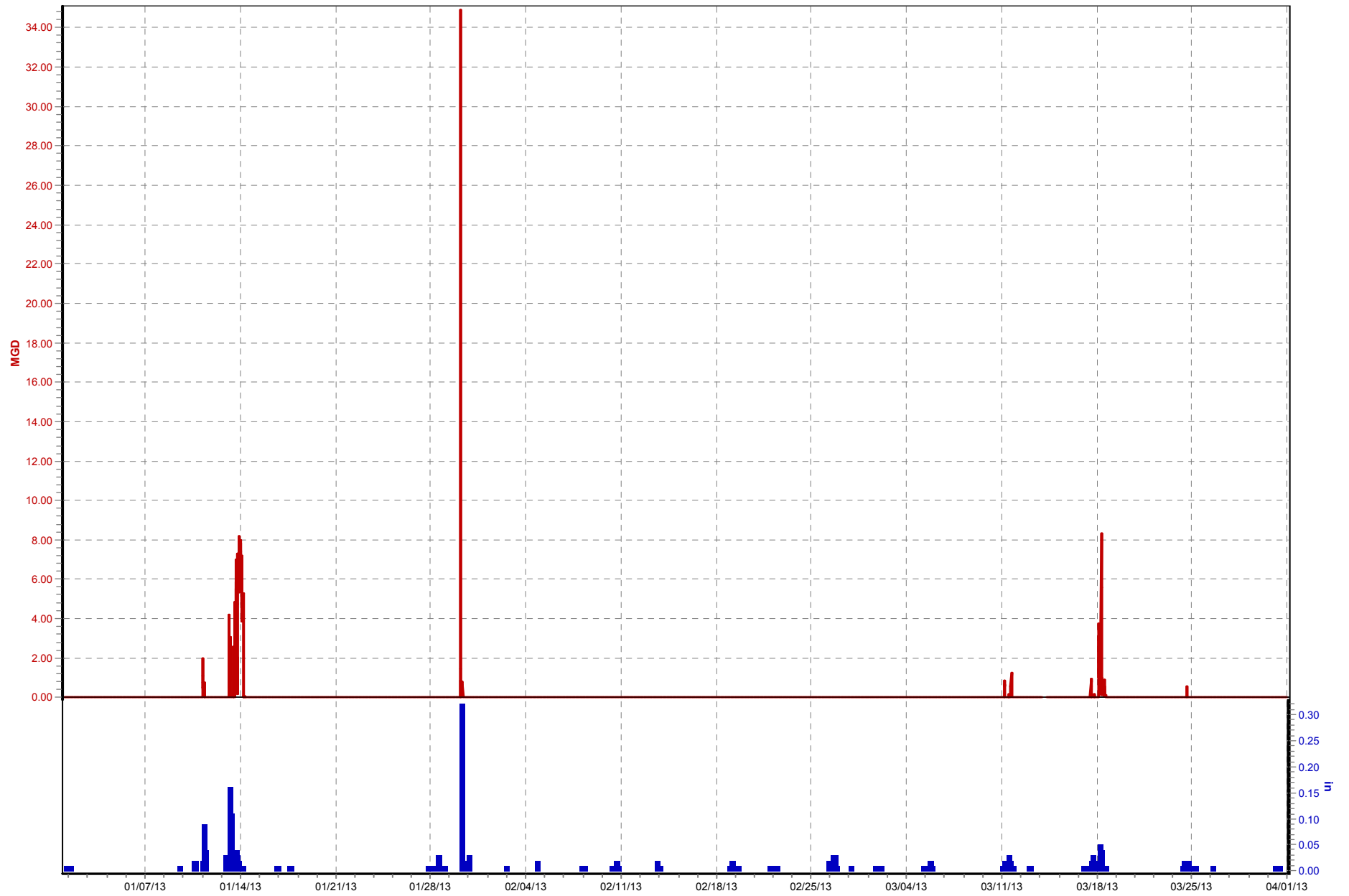
CSO137 Cavalry Cemetery (10/01/12 to 01/01/13)

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



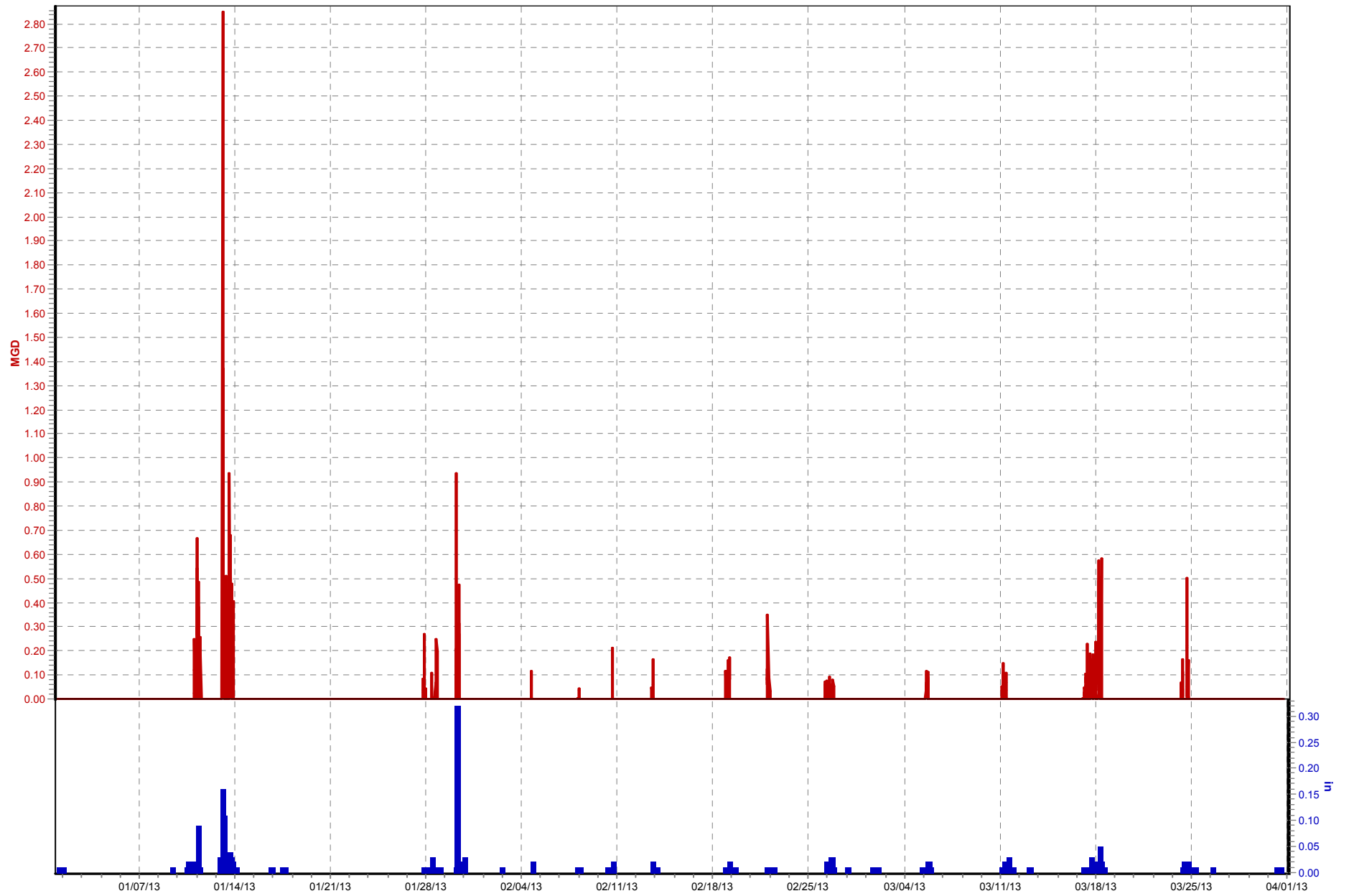
CSO140 Locust St_Lobdell Alley (01/01/13 to 04/01/13)

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



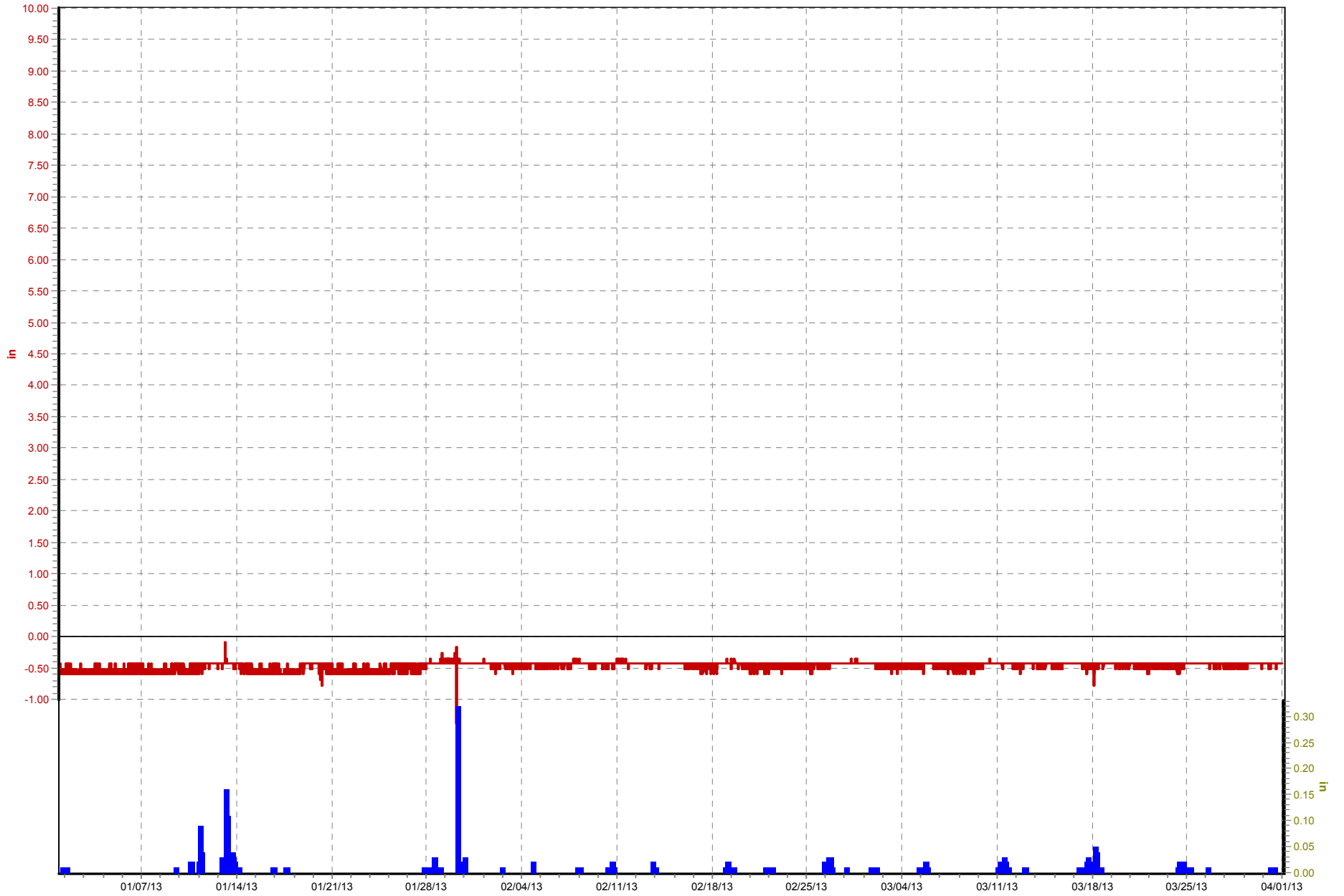
CSO141 Baxter_SF BGC (01/01/13 to 04/01/13)

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



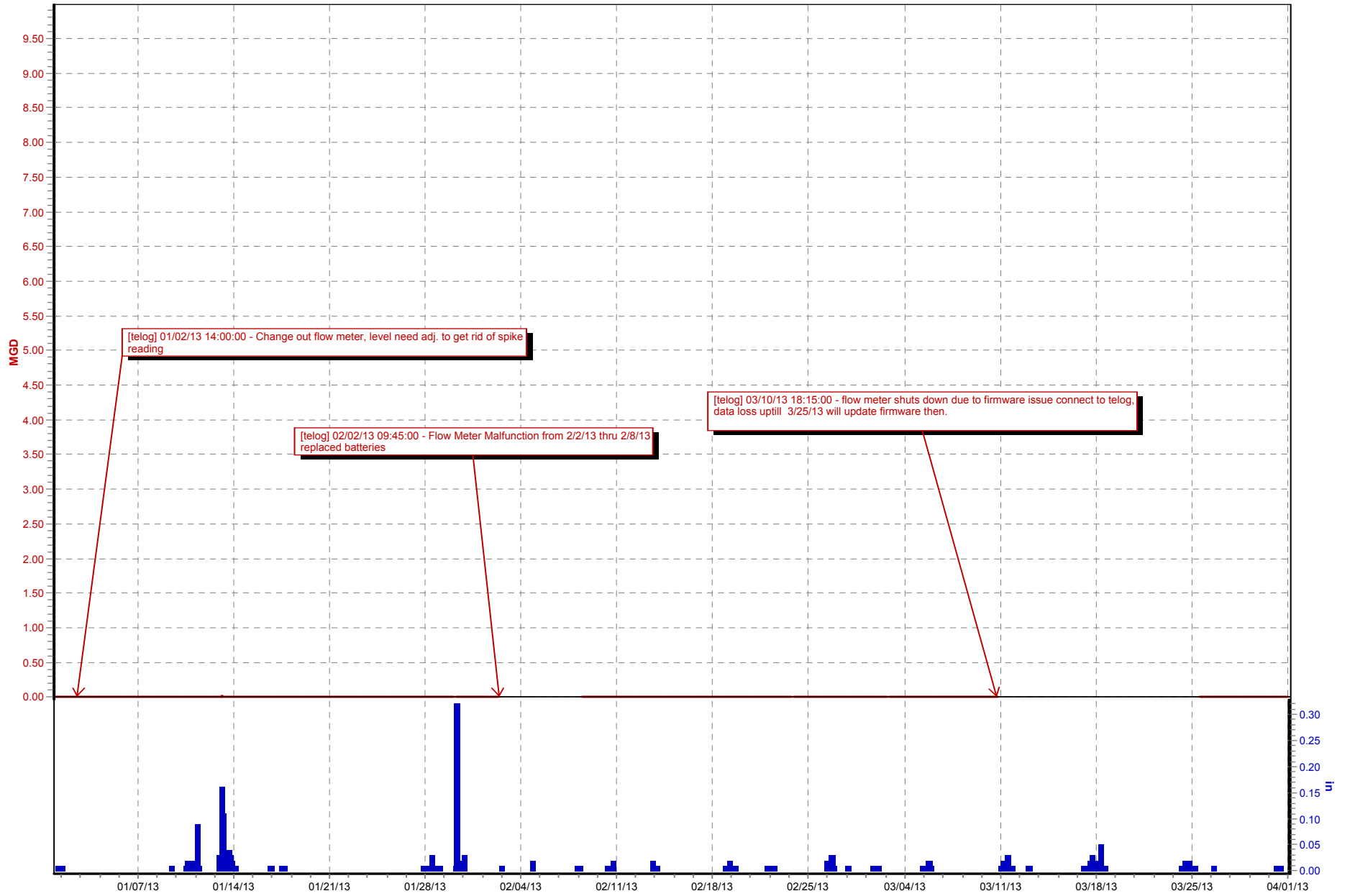
CSO142 Logan St_St Catherine (01/01/13 to 04/01/13)

Level (in) TR05_Beargrass PS.Rain (in)



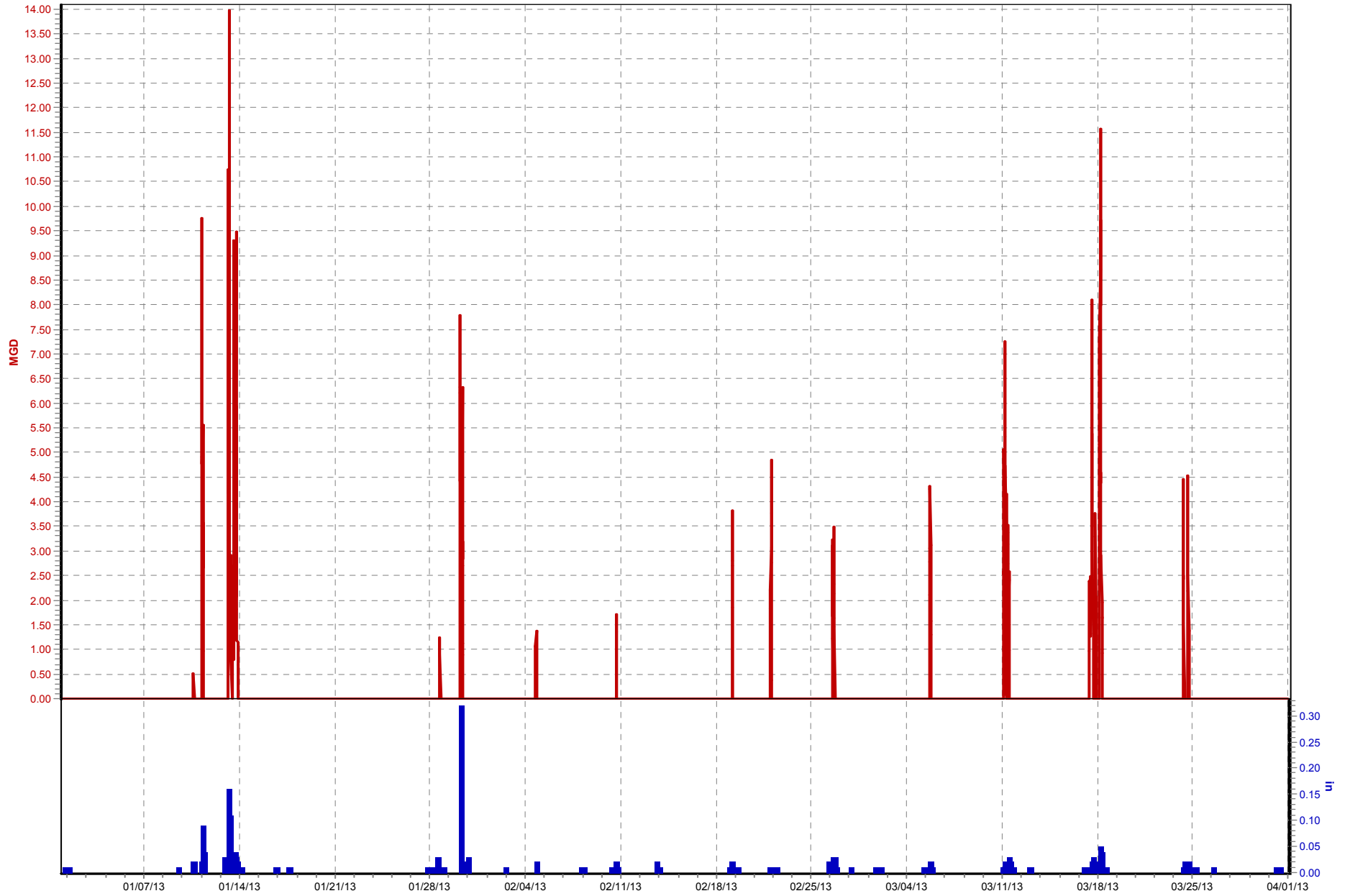
CSO144 Brauner Way (01/01/13 to 04/01/13)

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



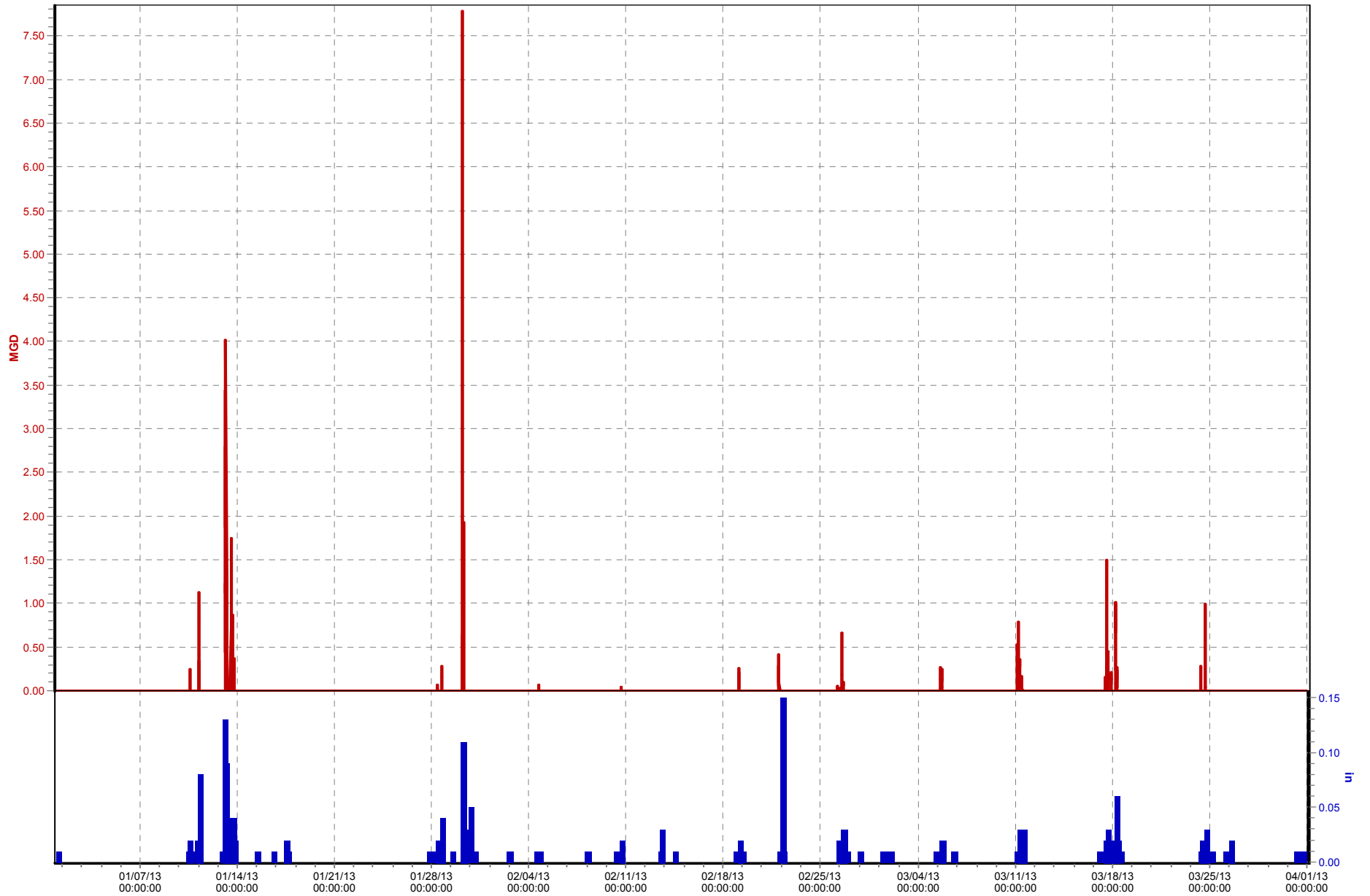
CSO146 Swan St (01/01/13 to 04/01/13)

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



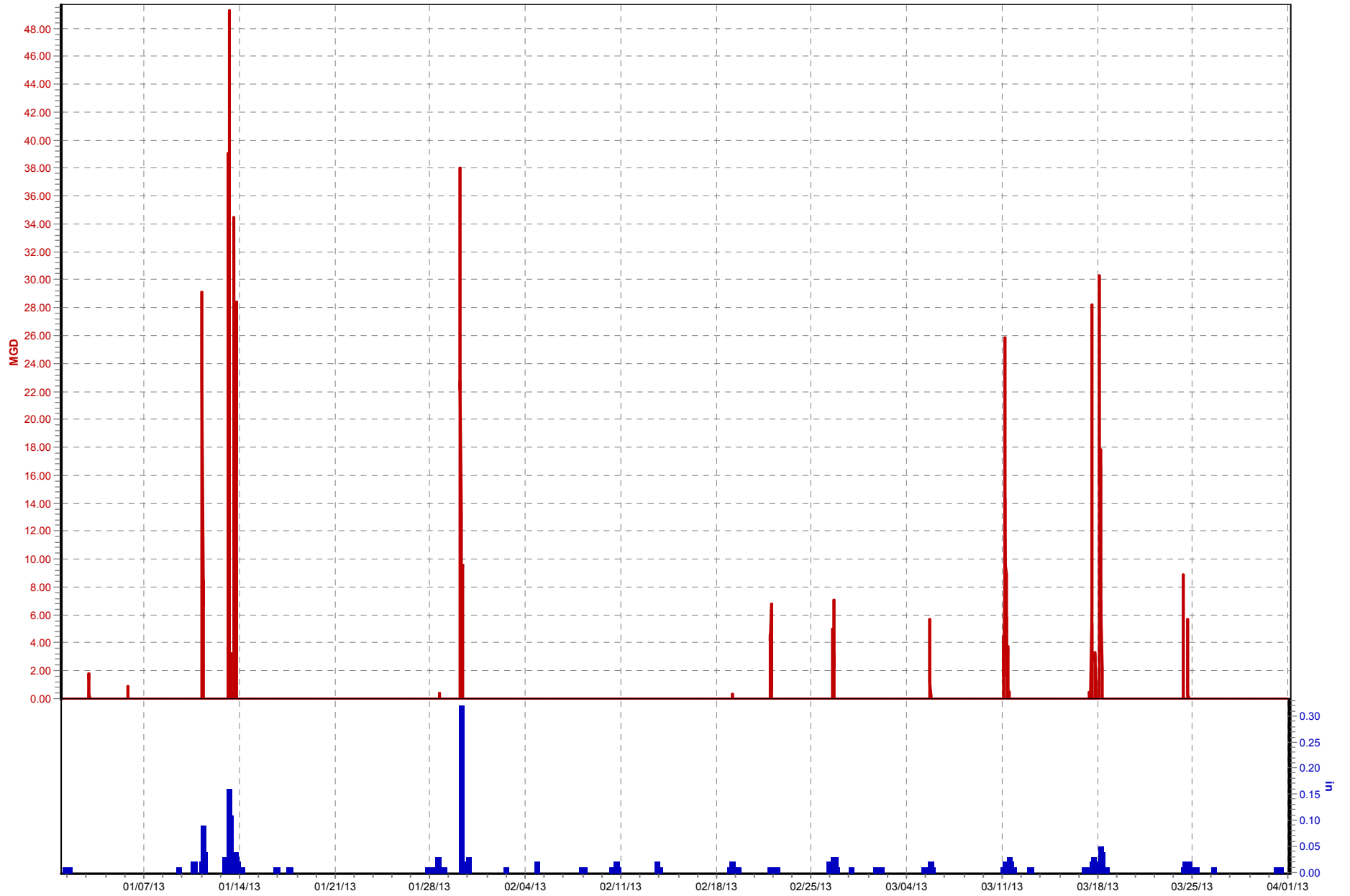
CSO148 Eastern Pkwy (01/01/13 to 04/01/13)

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



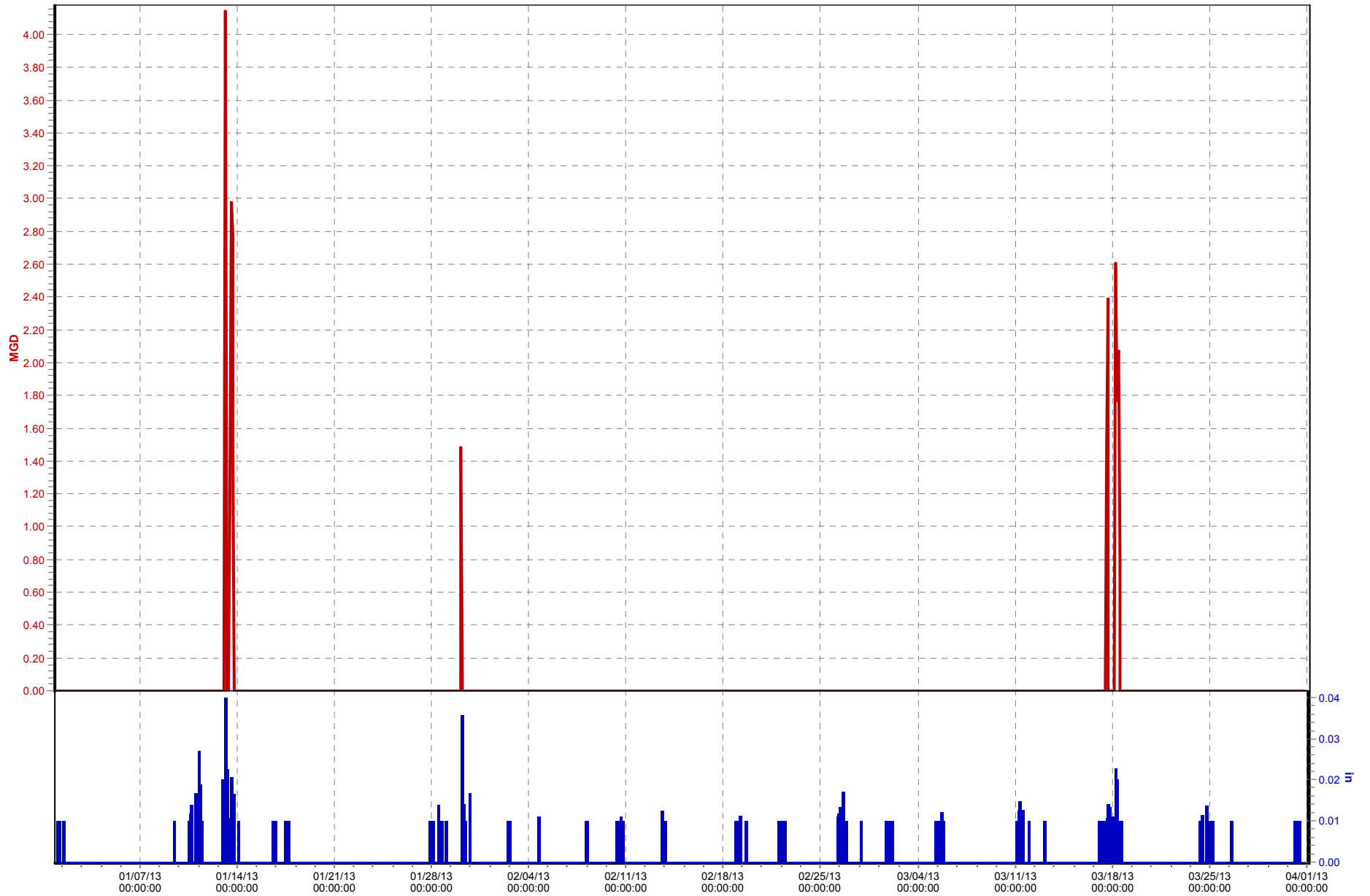
CSO149 (01/01/13 to 04/01/13)

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



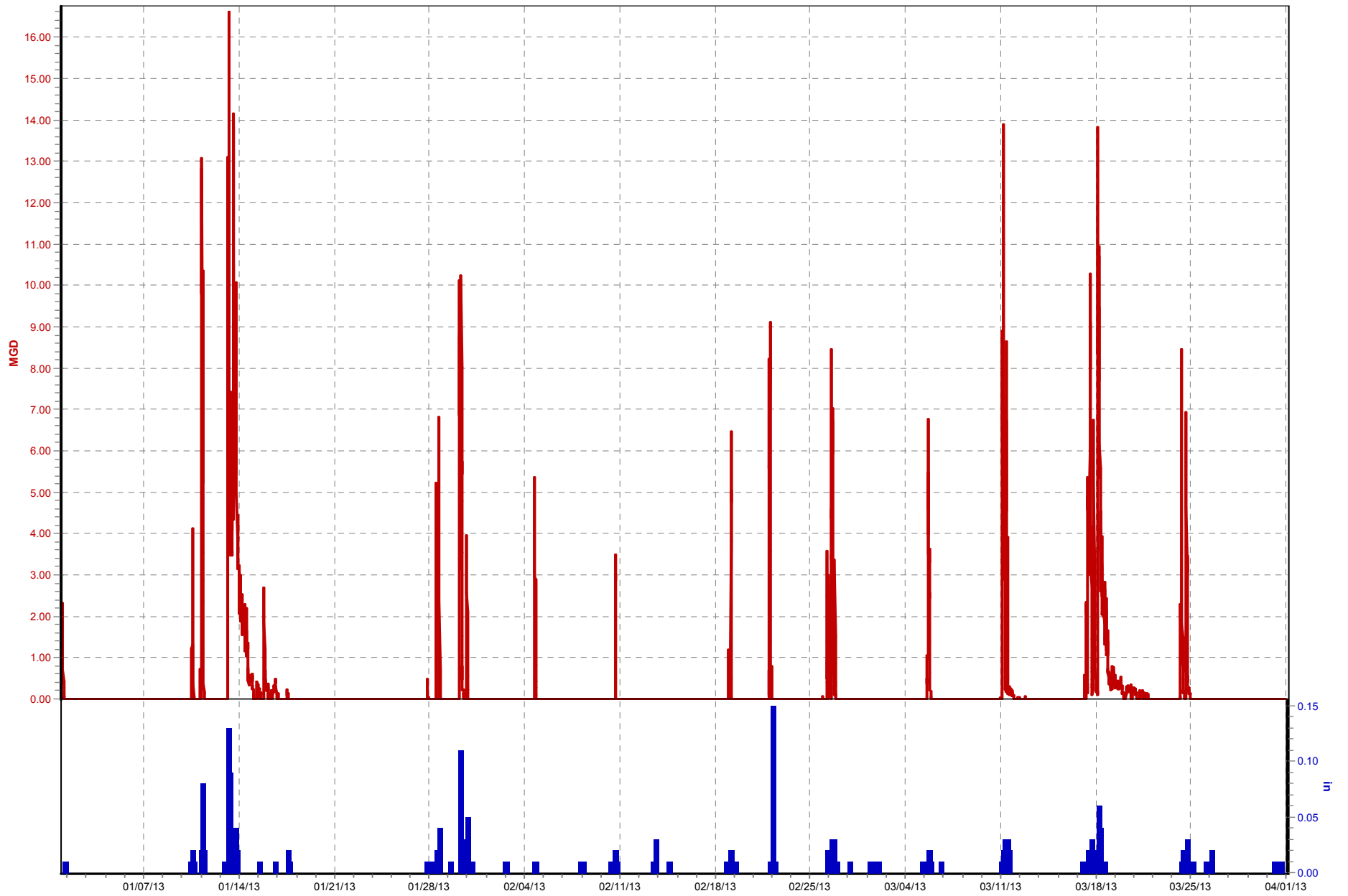
CSO150 8th St_Wash St (01/01/13 to 04/01/13)

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



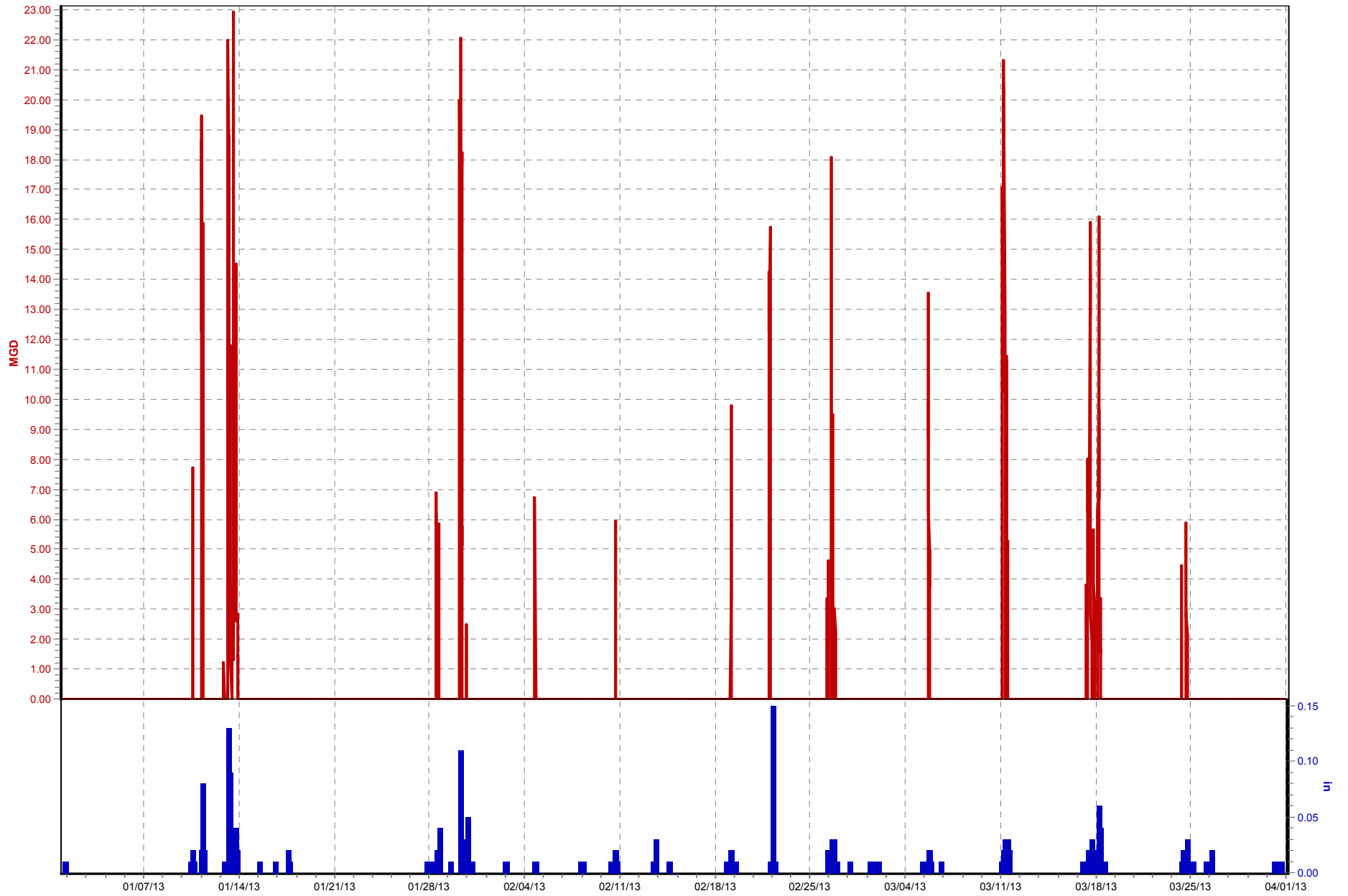
CSO151 Castlewood Dell (01/01/13 to 04/01/13)

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



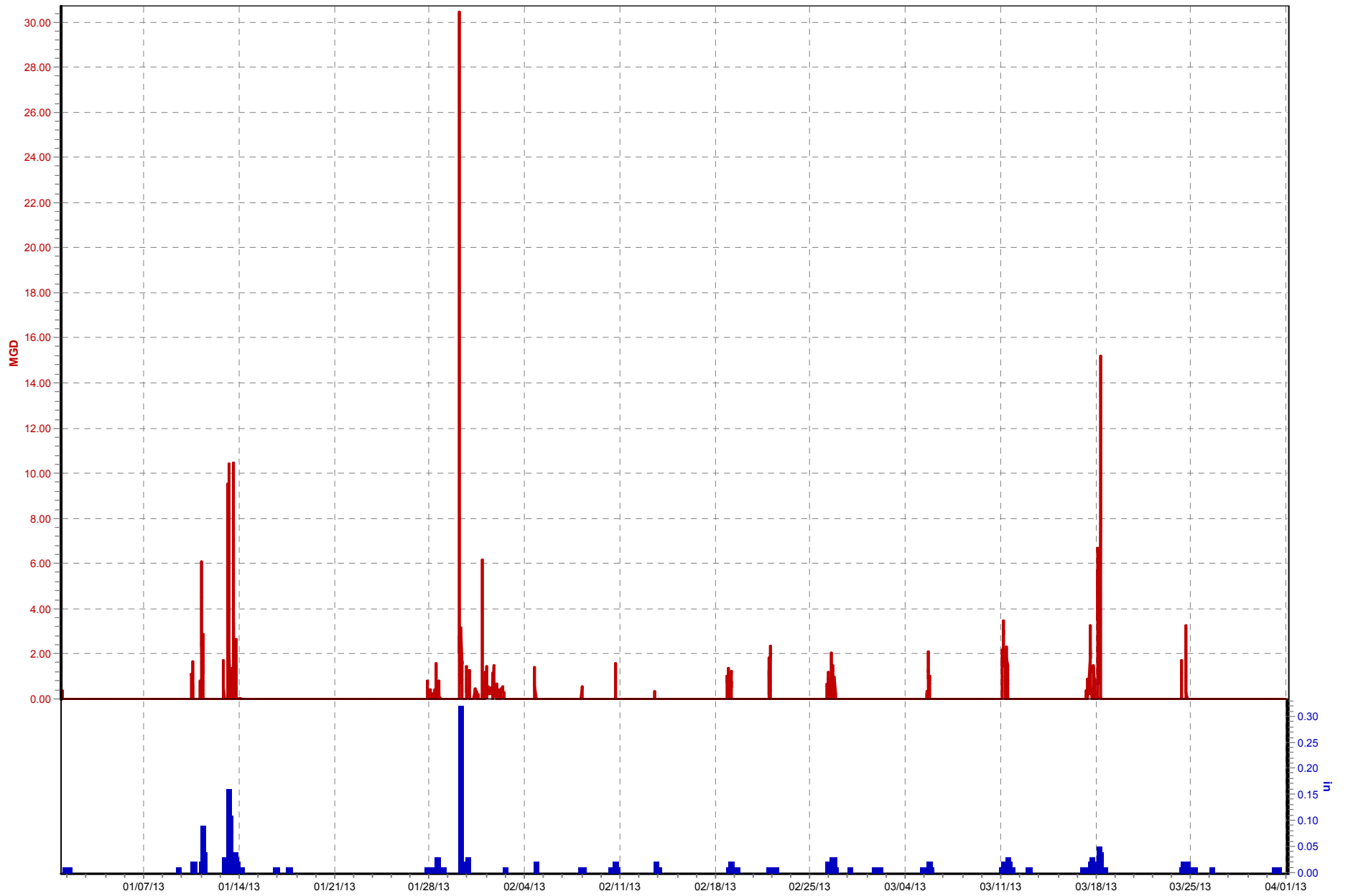
CSO152 (01/01/13 to 04/01/13)

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



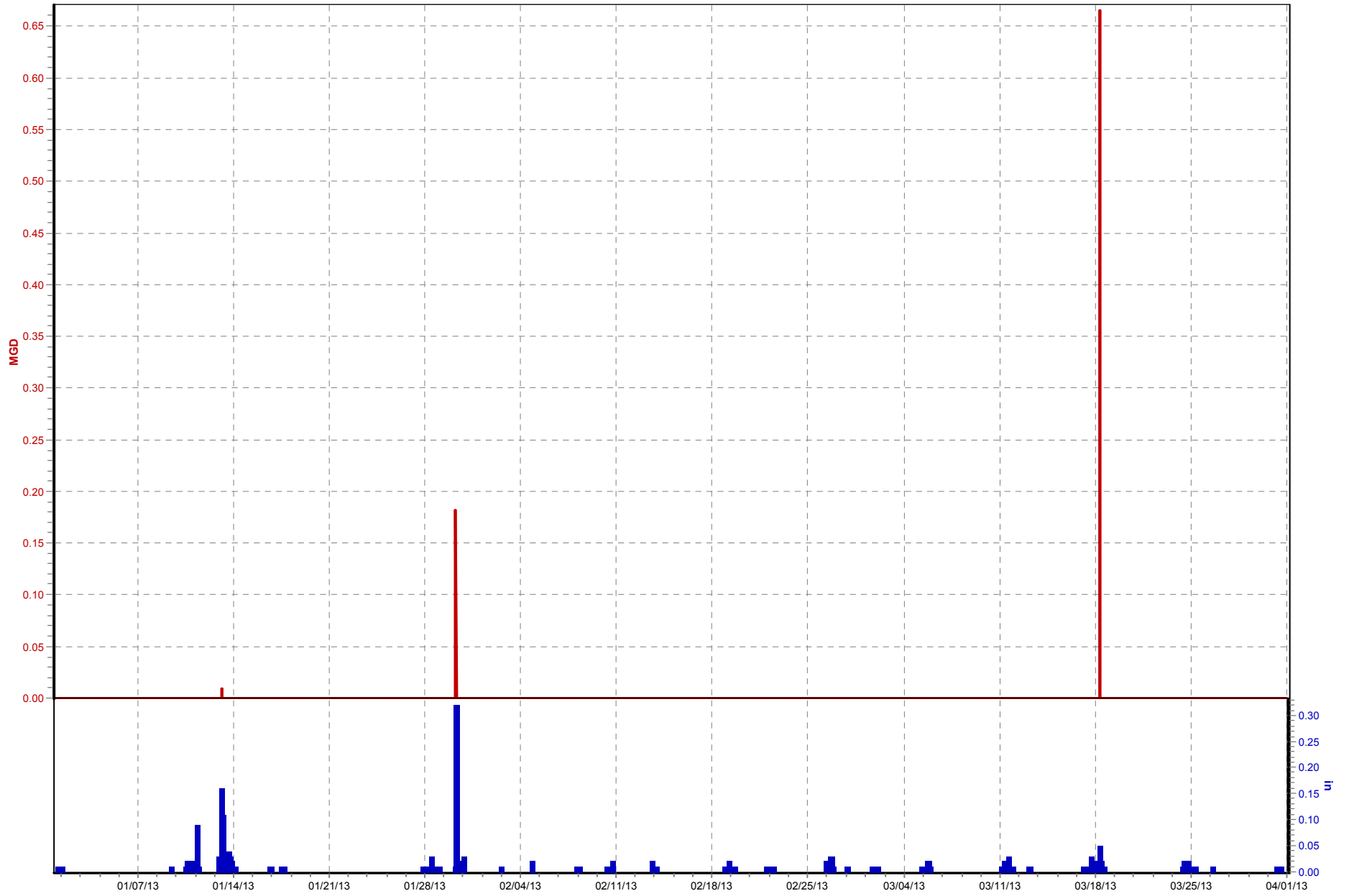
CSO153 Lex Rd (01/01/13 to 04/01/13)

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



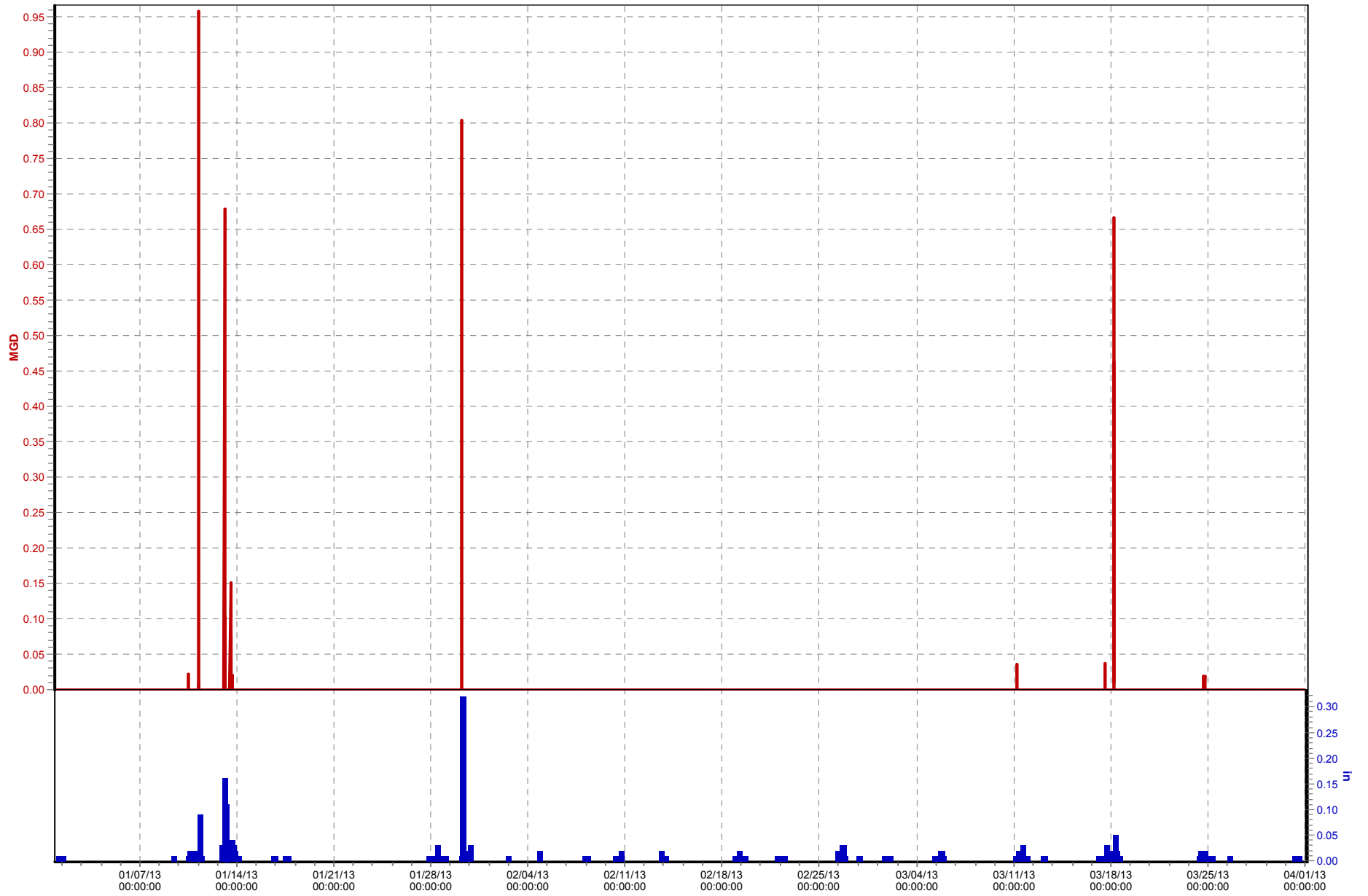
CSO154 Mellwood Ave (01/01/13 to 04/01/13)

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



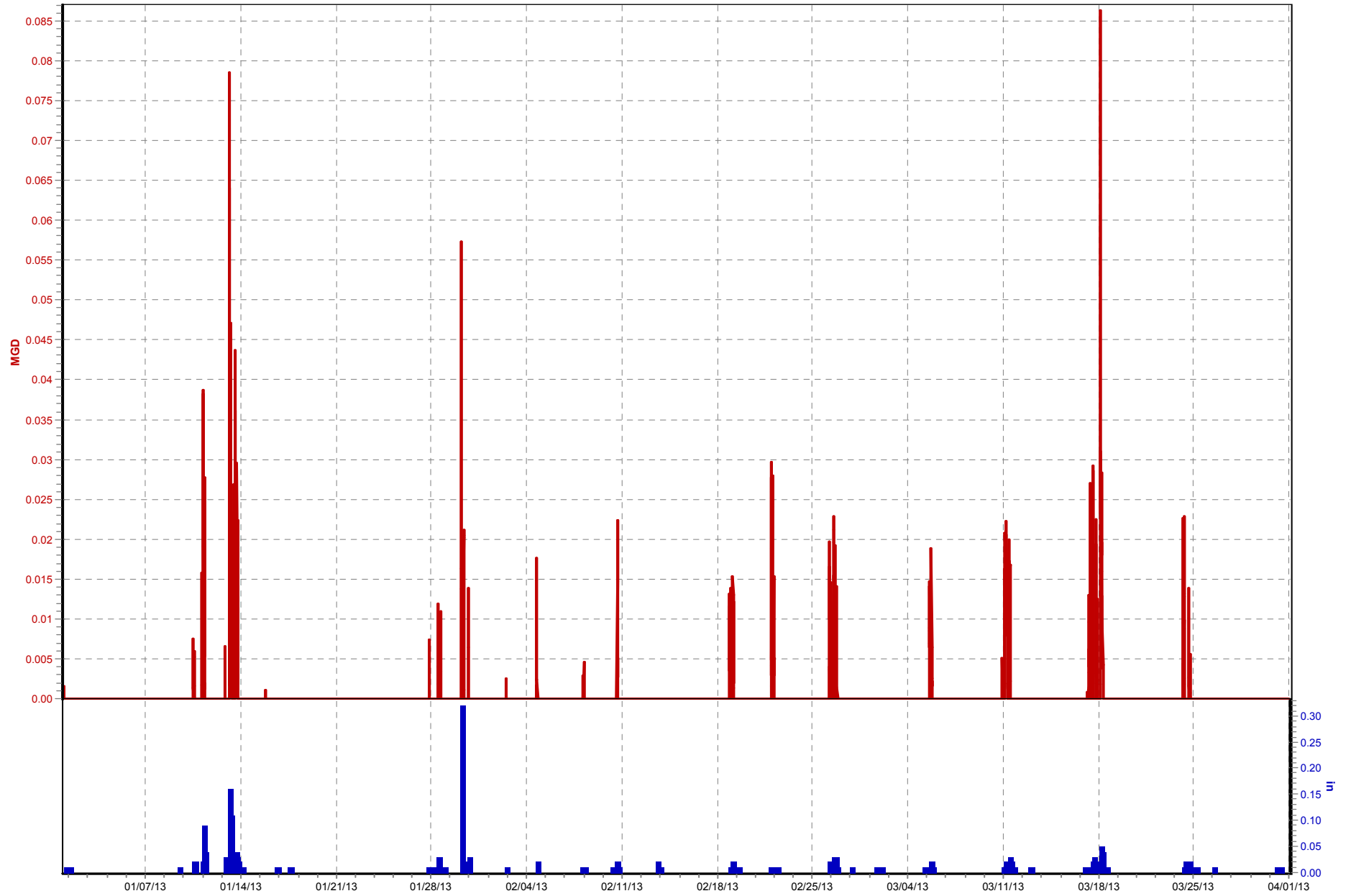
CSO155 Rowan St (01/01/13 to 04/01/13)

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



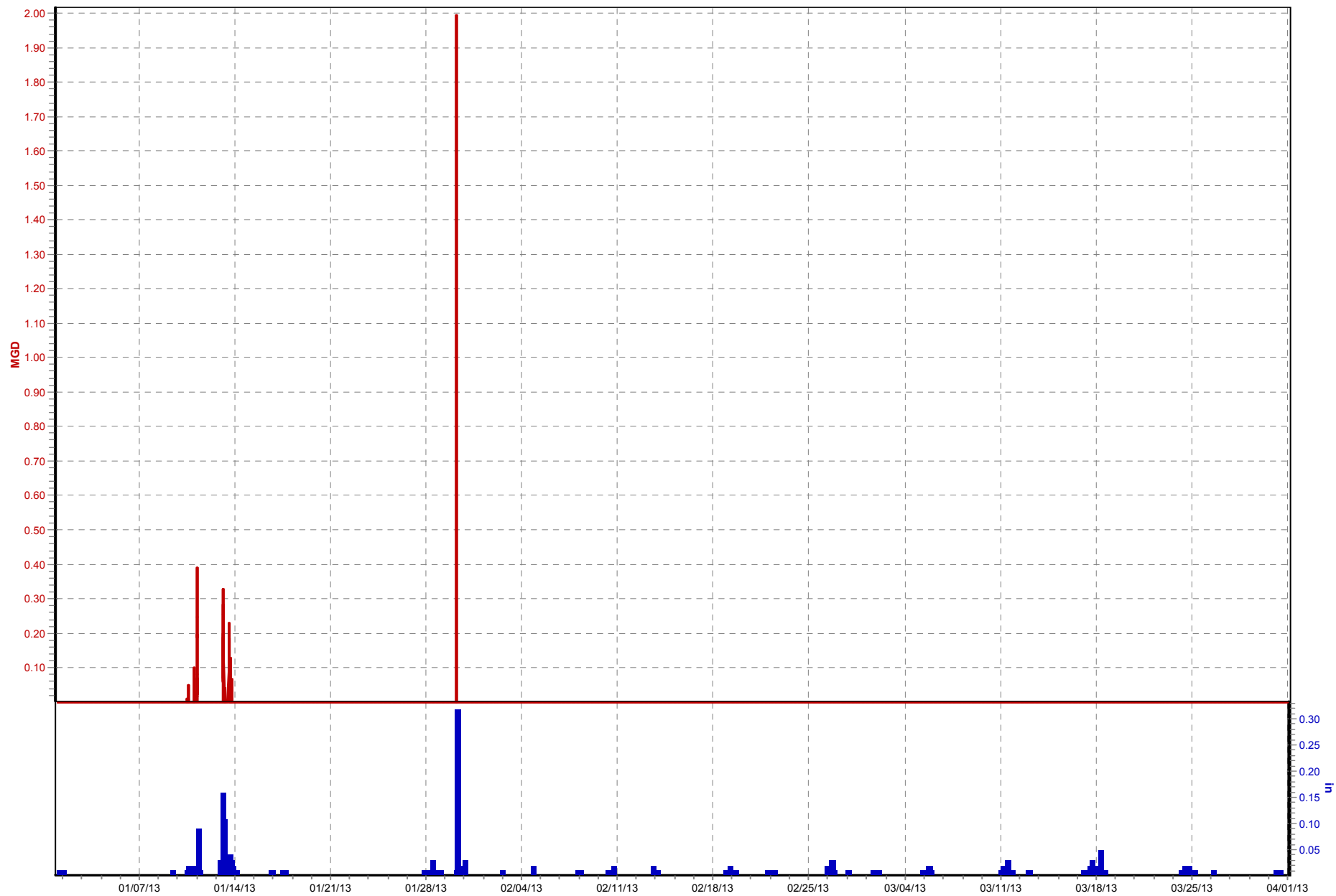
CSO160 1st St (01/01/13 to 04/01/13)

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



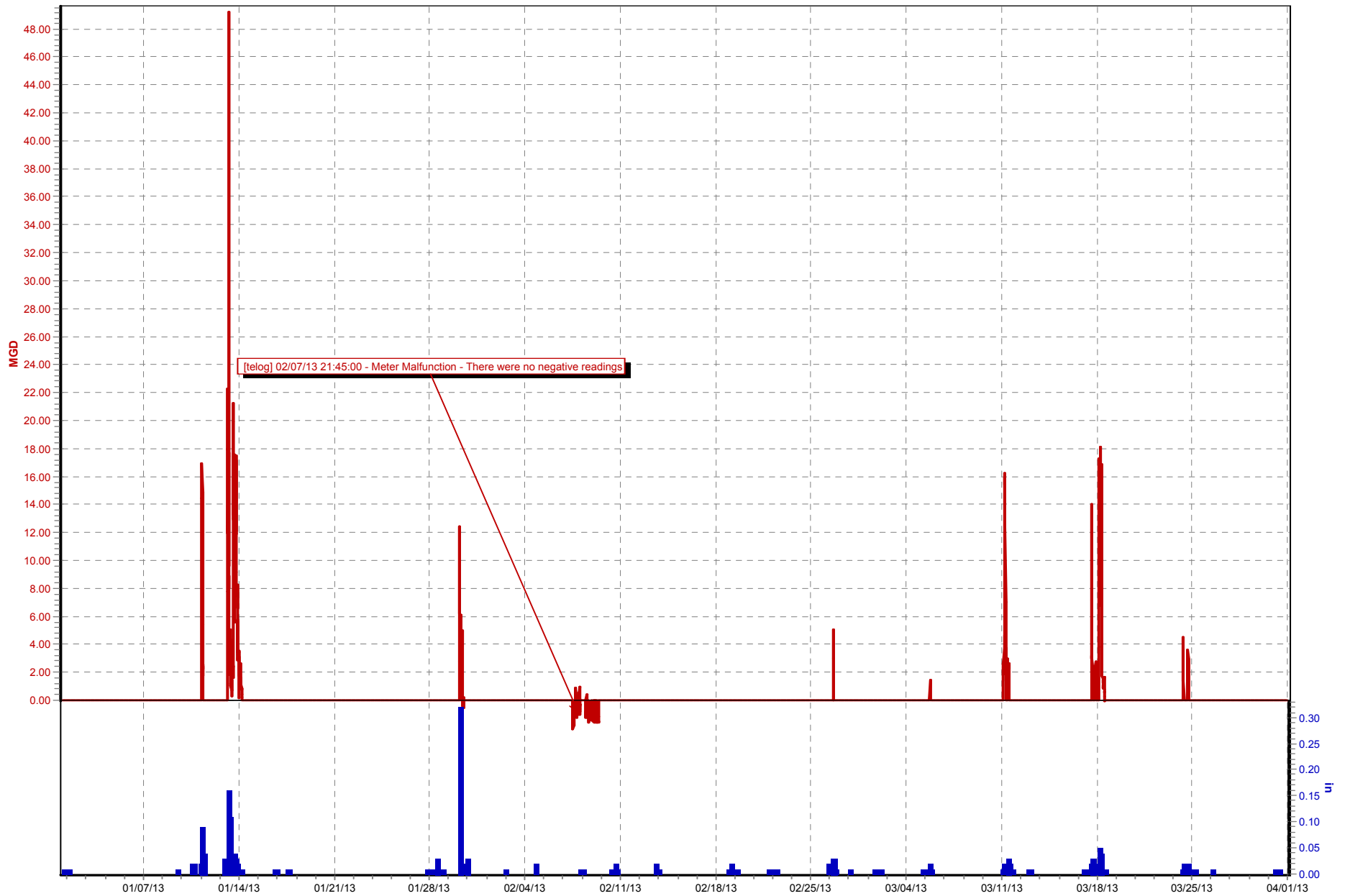
CSO161 1st and Market St (01/01/13 to 04/01/13)

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



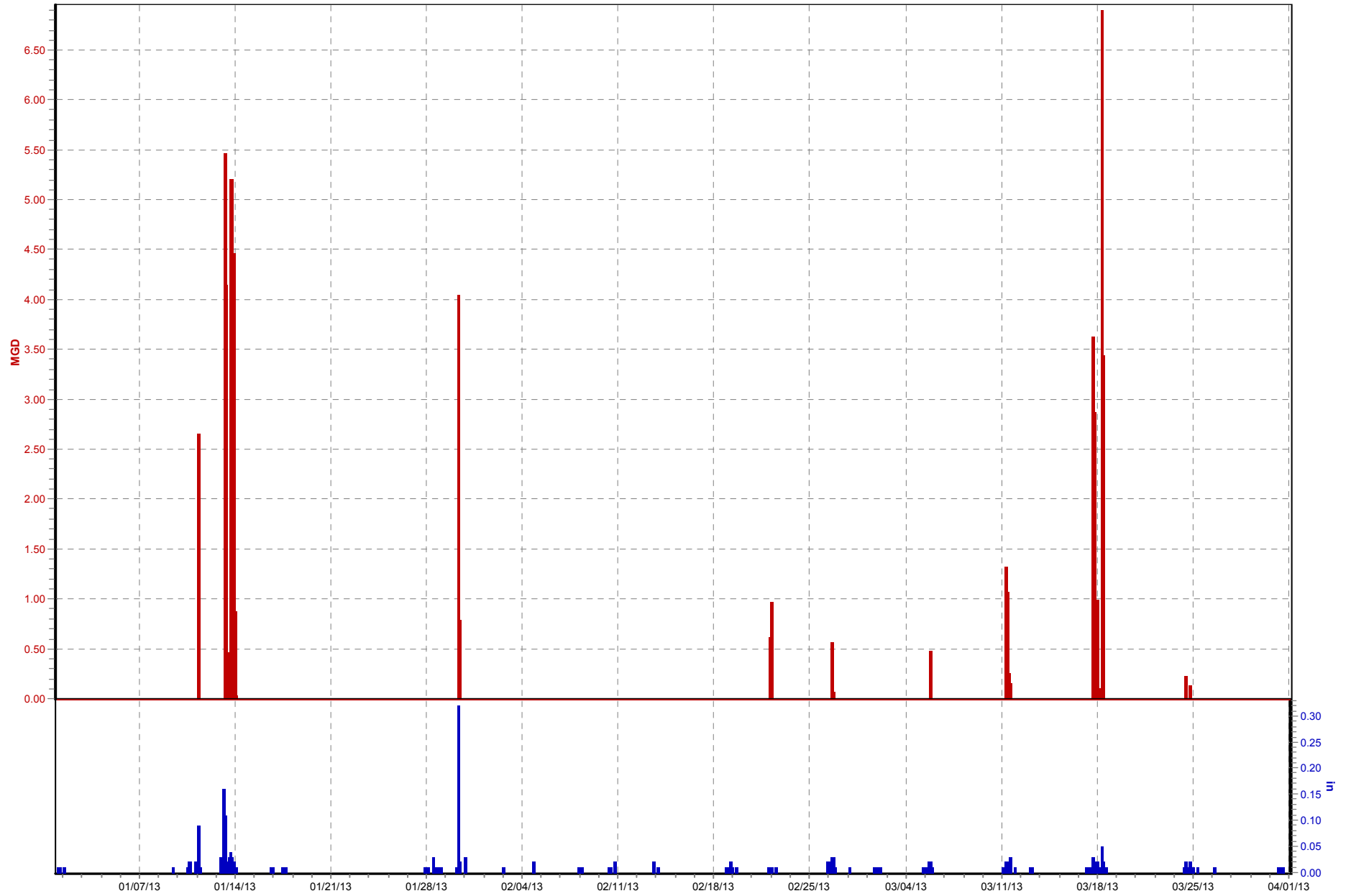
CSO166 Lex Rd (01/01/13 to 04/01/13)

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



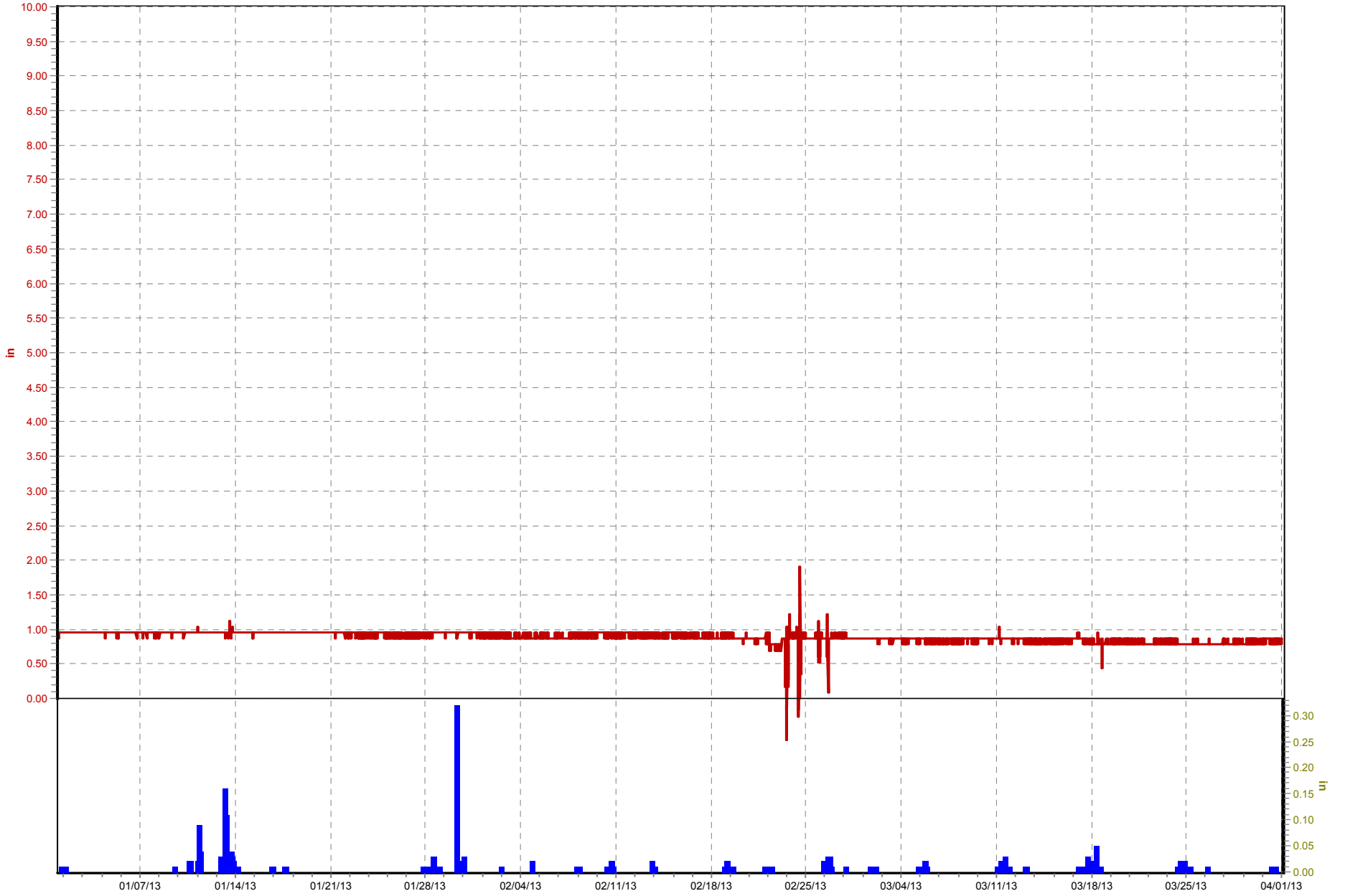
CSO167 Brownsboro Rd (01/01/13 to 04/01/13)

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



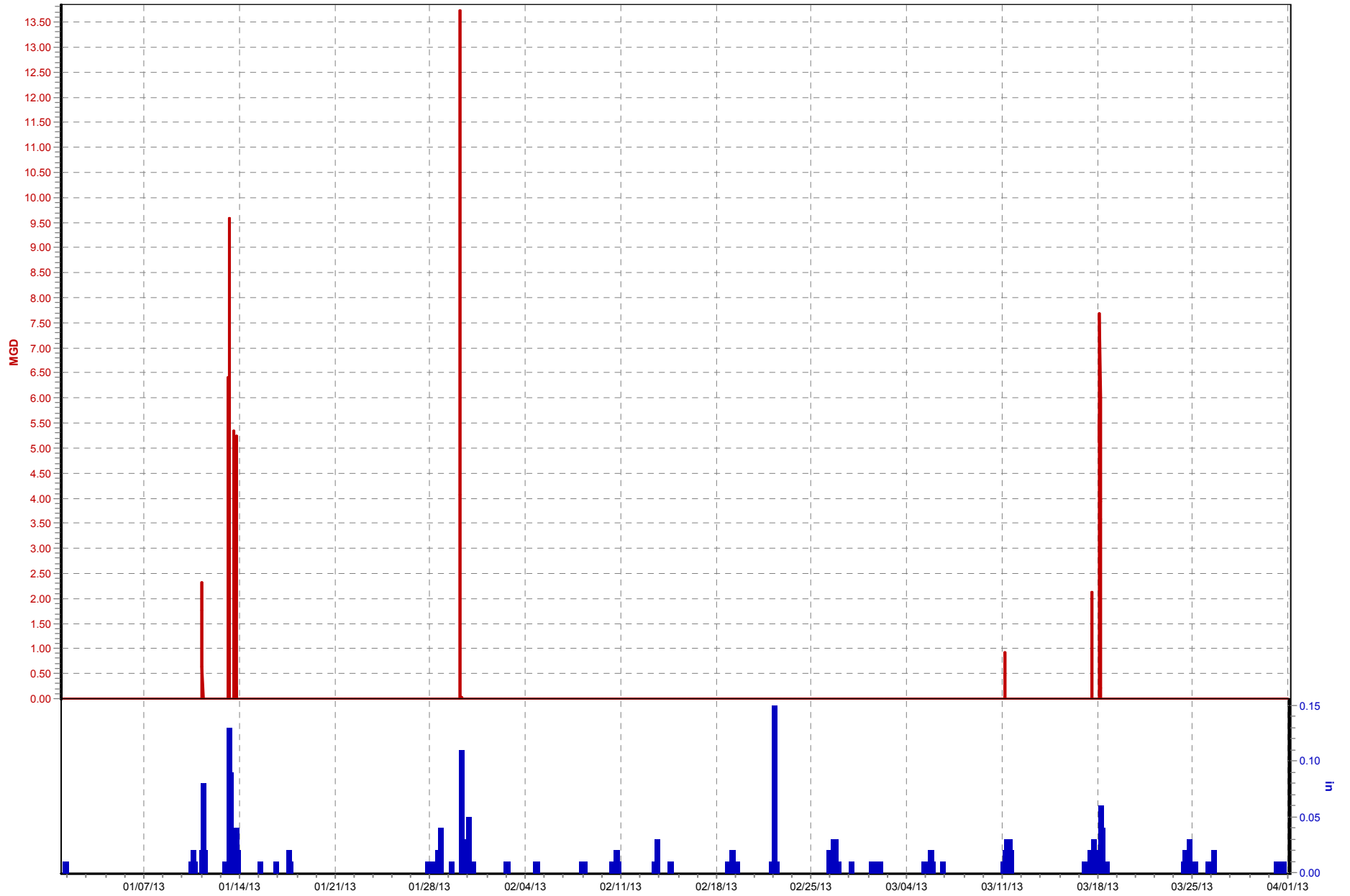
CSO172 River Road (01/01/13 to 04/01/13)

level (in) TR05_Beargrass PS.Rain (in)



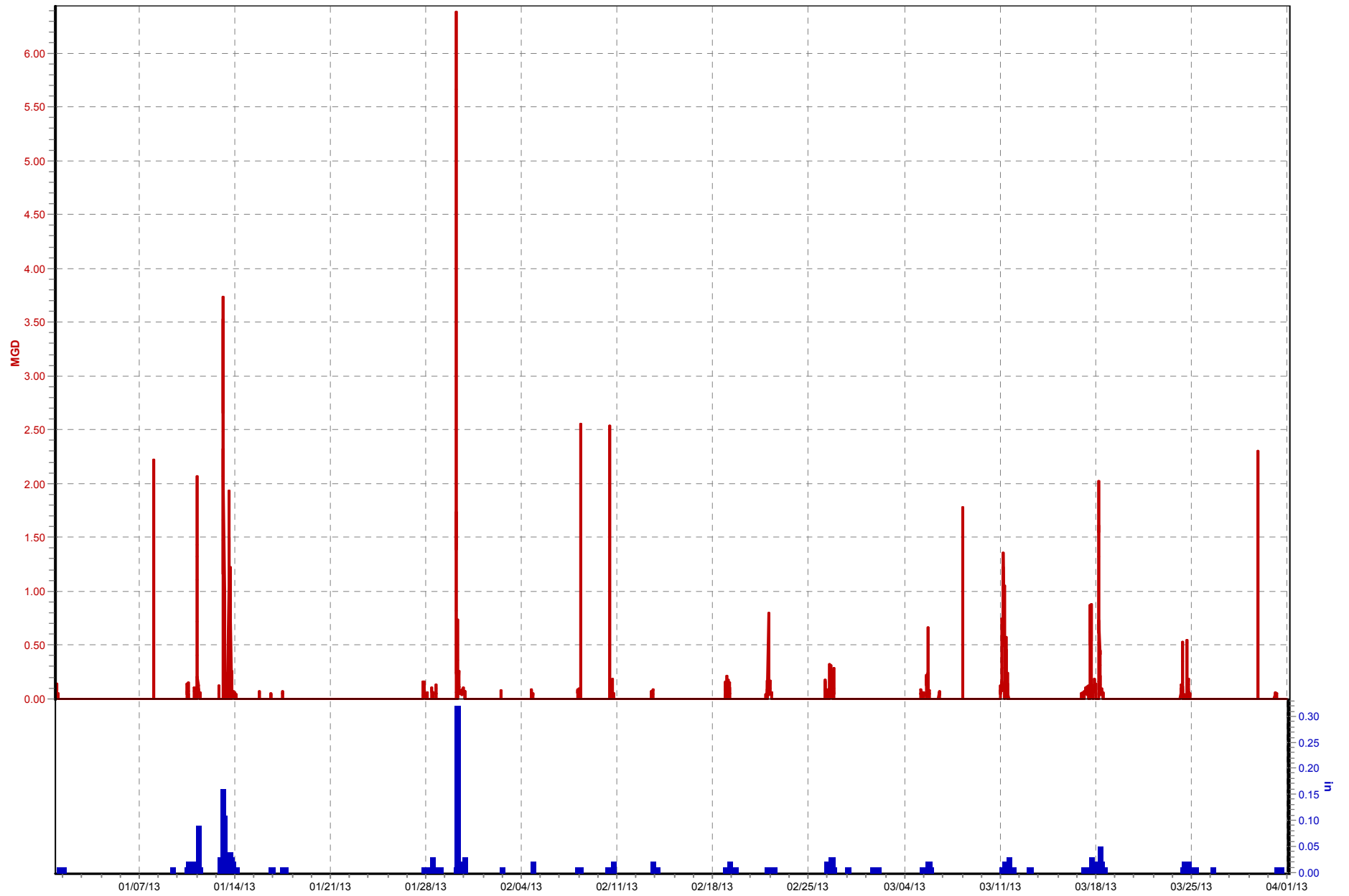
CSO174 Goss_Boyle Ave (01/01/13 to 04/01/13)

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



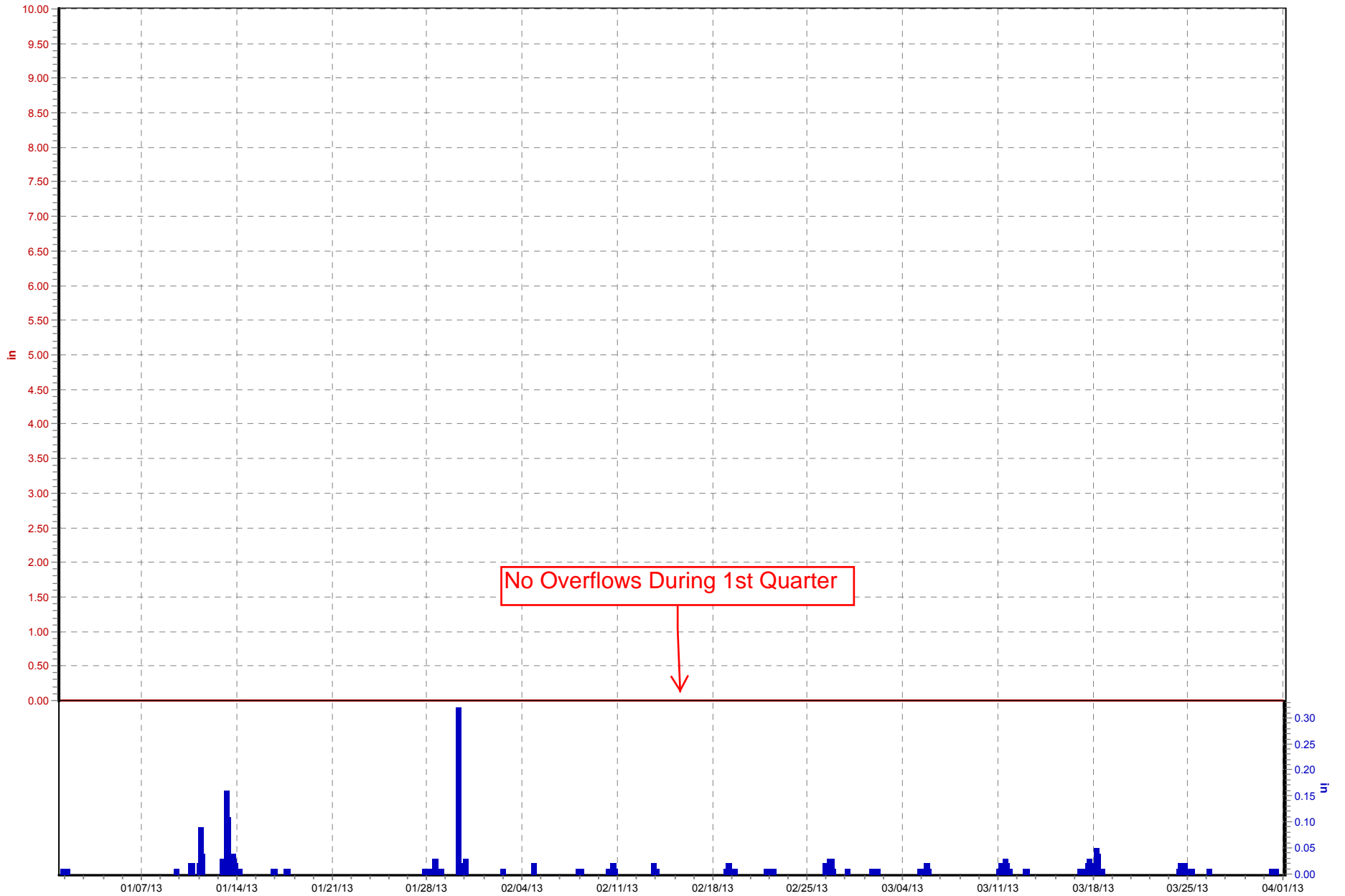
CSO178 RoyWilkins Ave (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



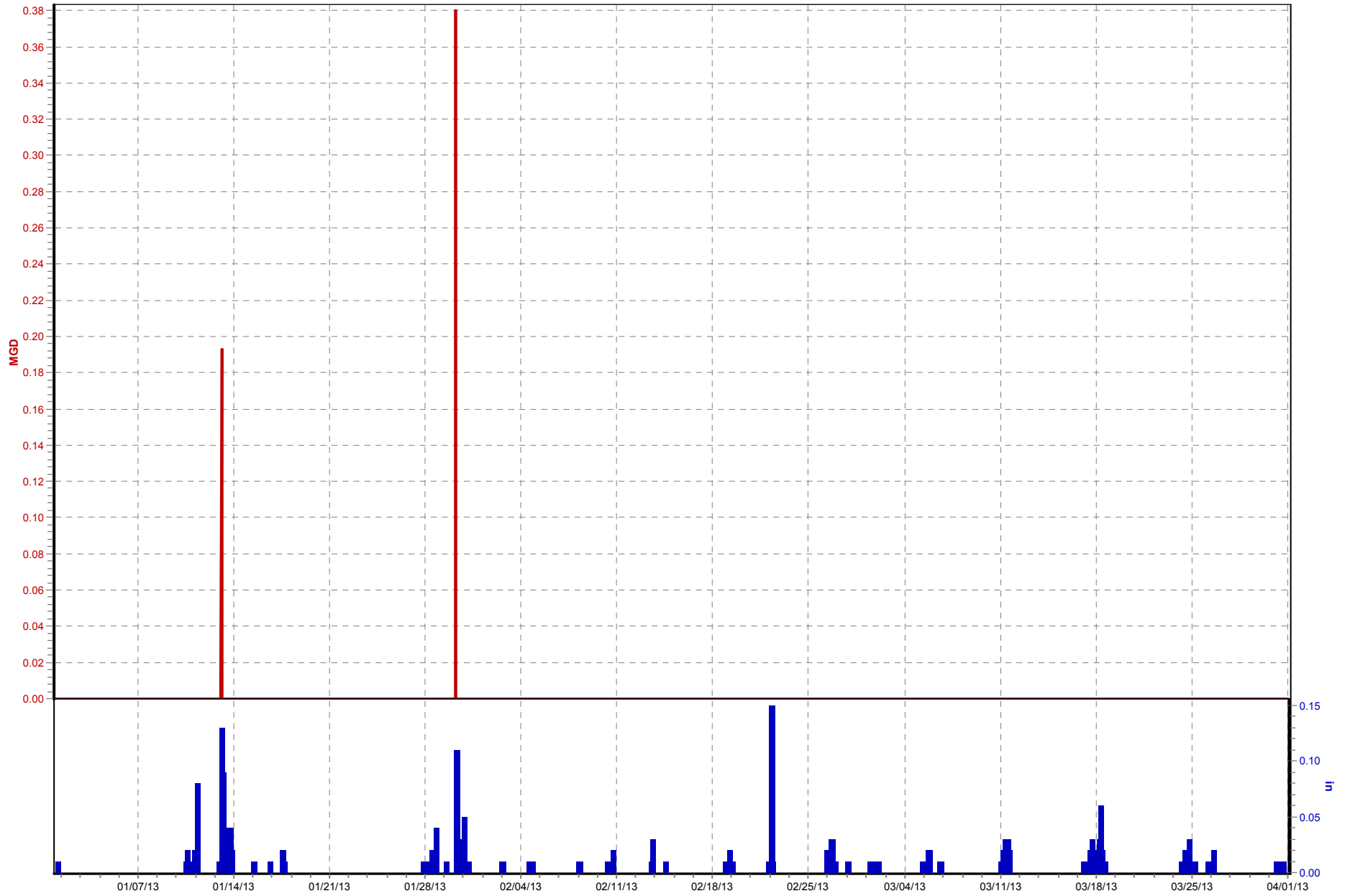
CSO179 (01/01/13 to 04/01/13)

Level 2-CSO179 (in) TR05_Beargrass PS.Rain (in)



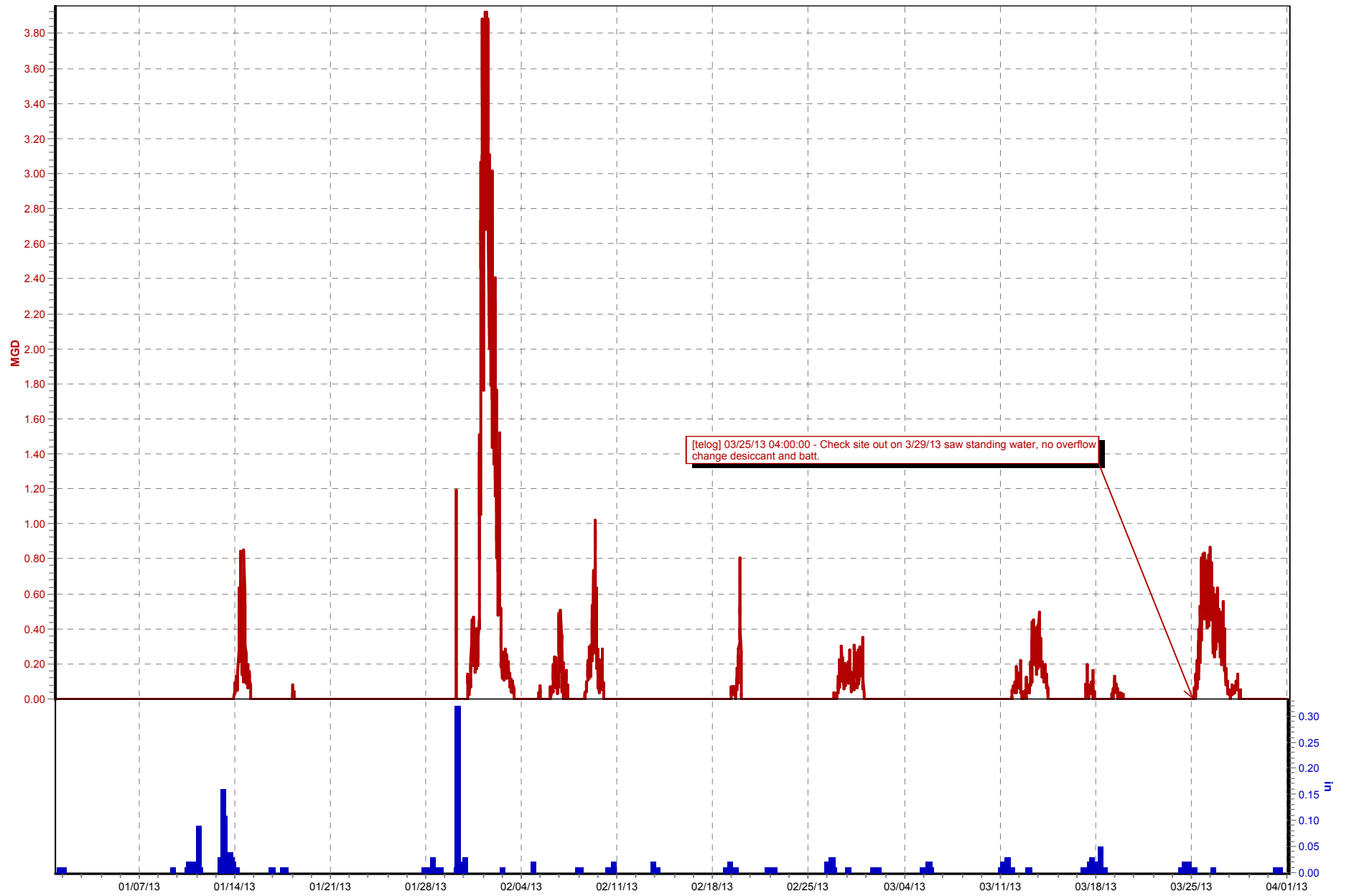
CSO180 E Ormsby_Clay St (01/01/13 to 04/01/13)

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



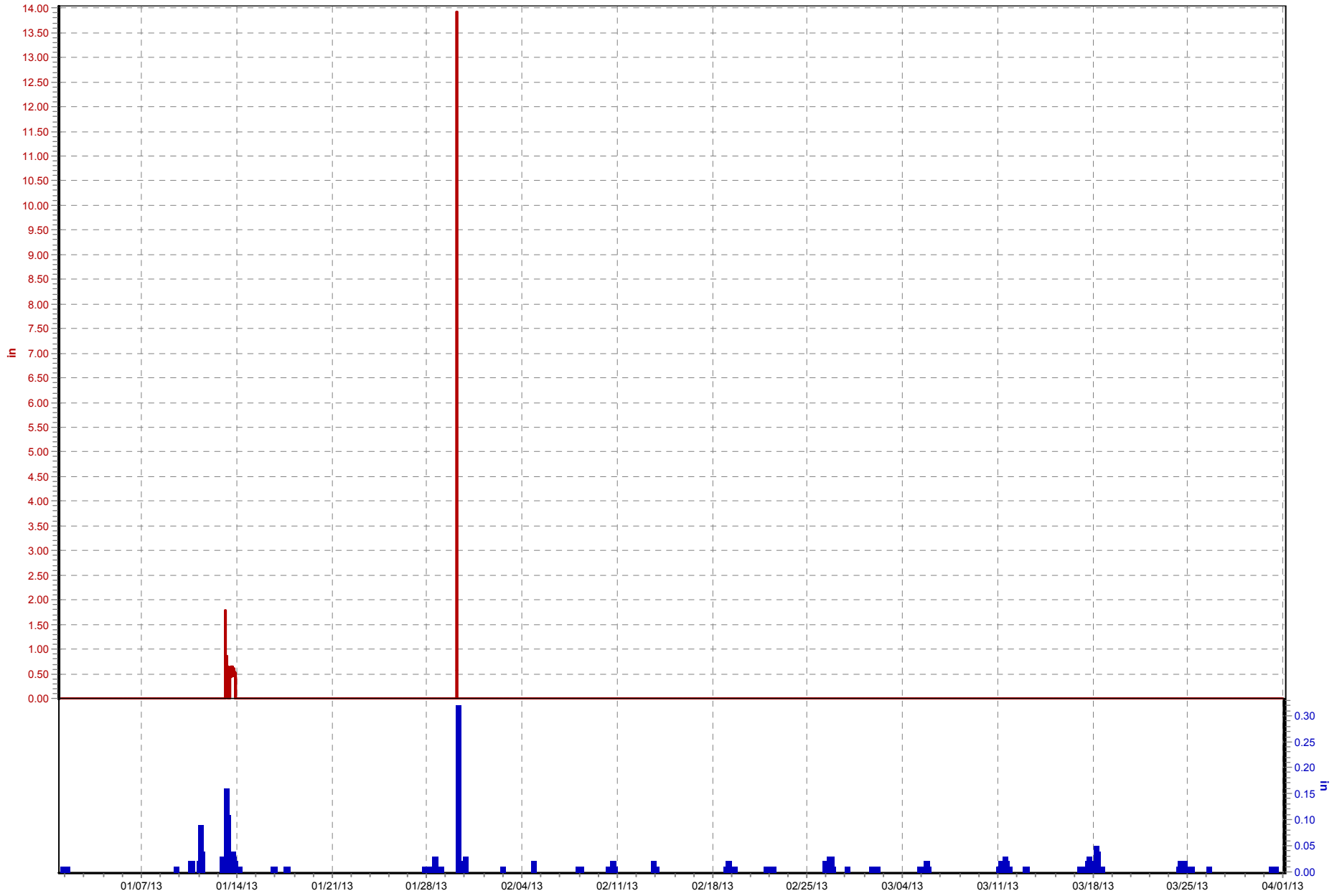
CSO035 (01/01/13 to 04/01/13)

Flow-CSO035 (MGD) TR05_Beargrass PS.Rain (in)



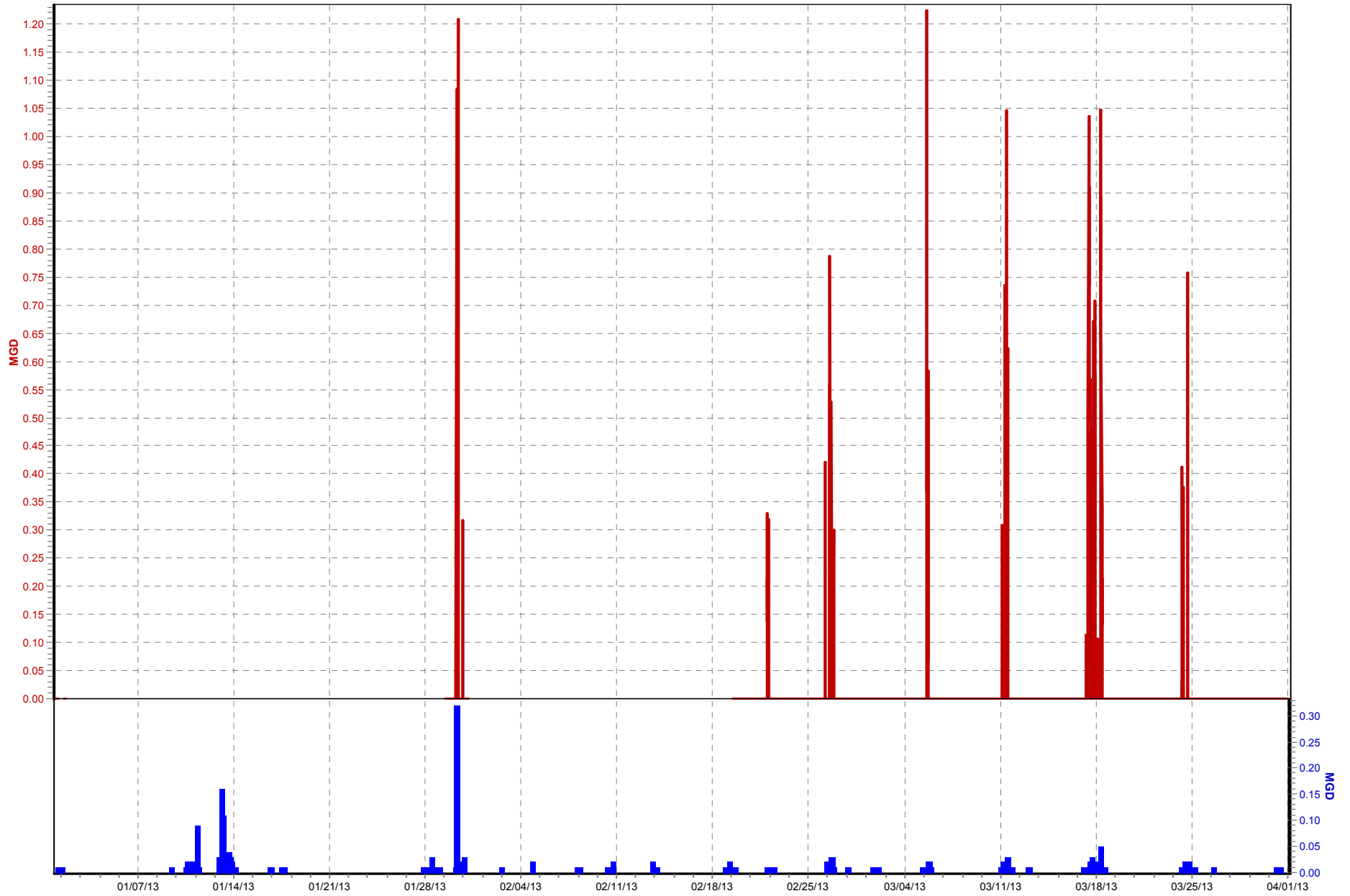
CSO181 (01/01/13 to 04/01/13)

Level-CSO181 (in) TR05_Beargrass PS.Rain (in)



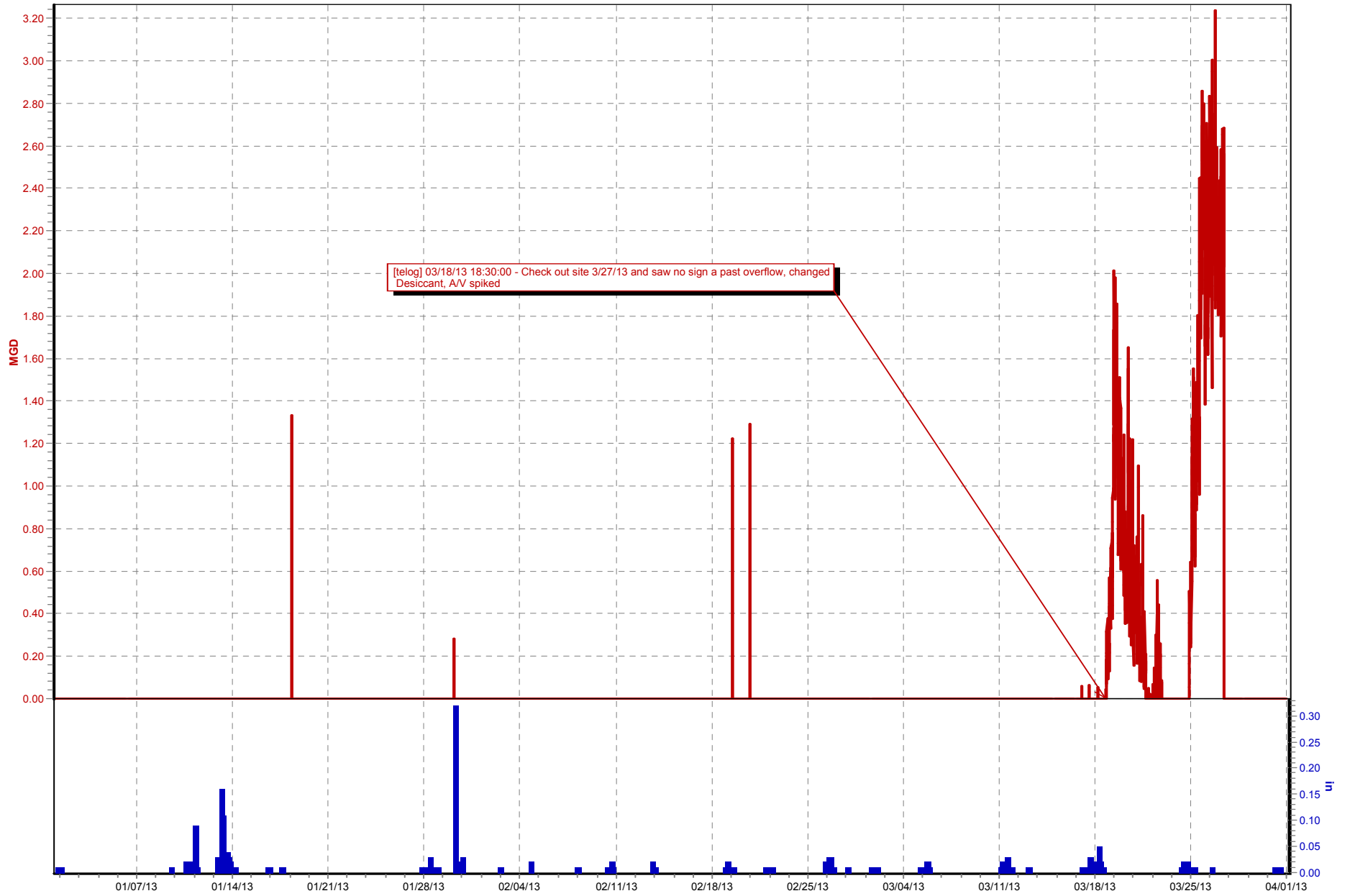
CSO182 Shelby_Burnett St (01/01/13 to 04/01/13)

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



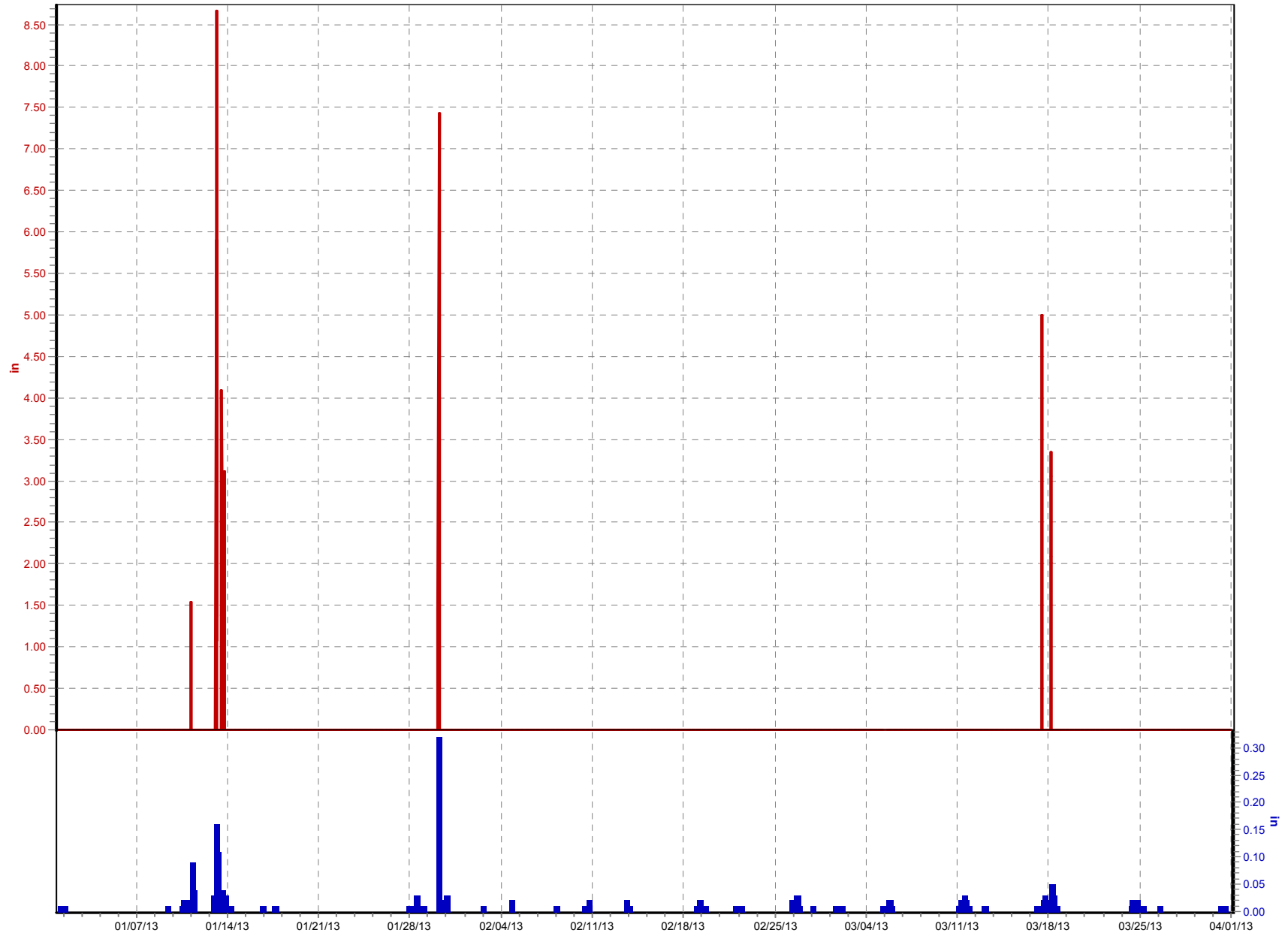
CSO183 Keswick Blvd (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



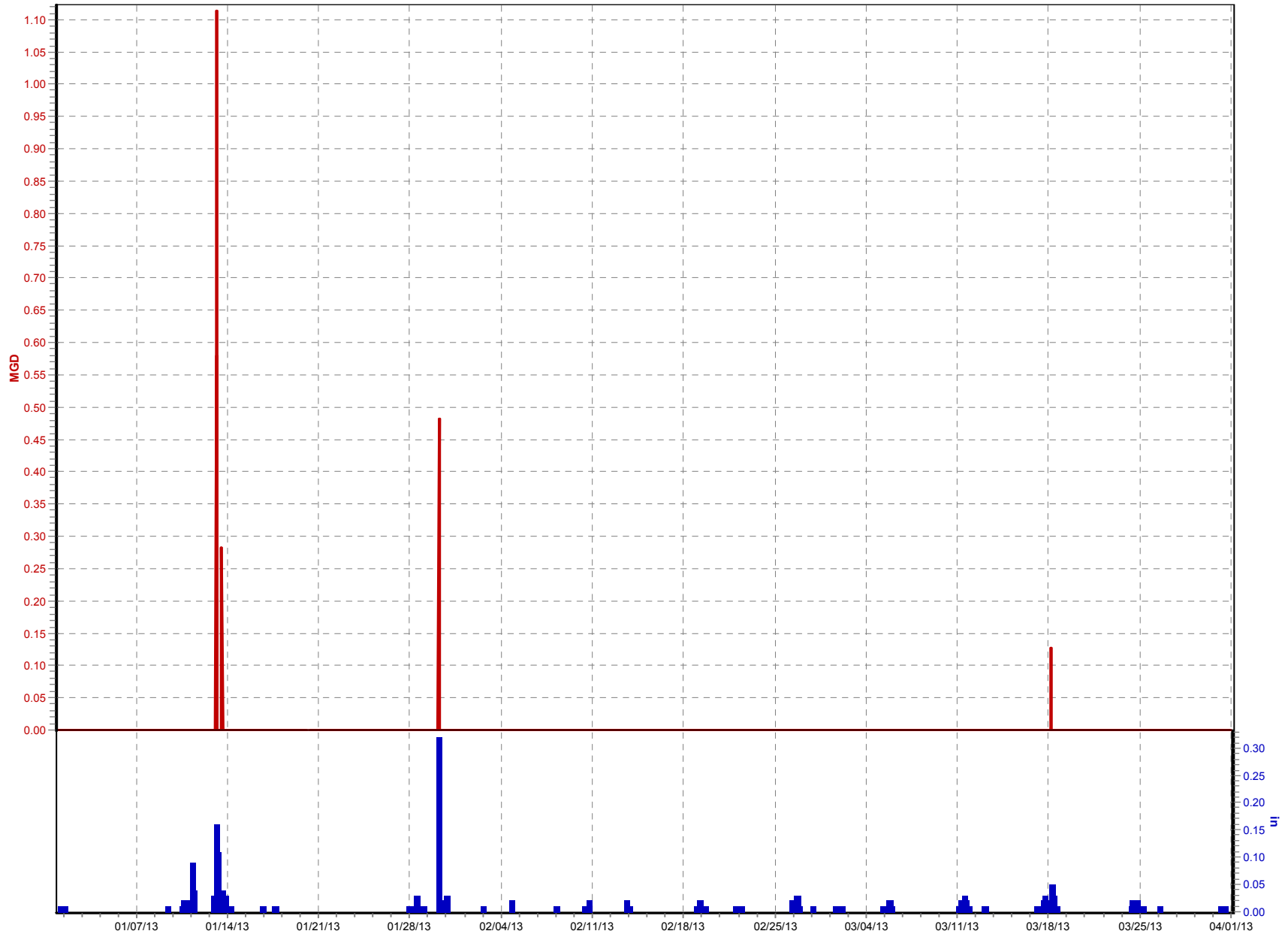
CSO185 (01/01/13 to 04/01/13)

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



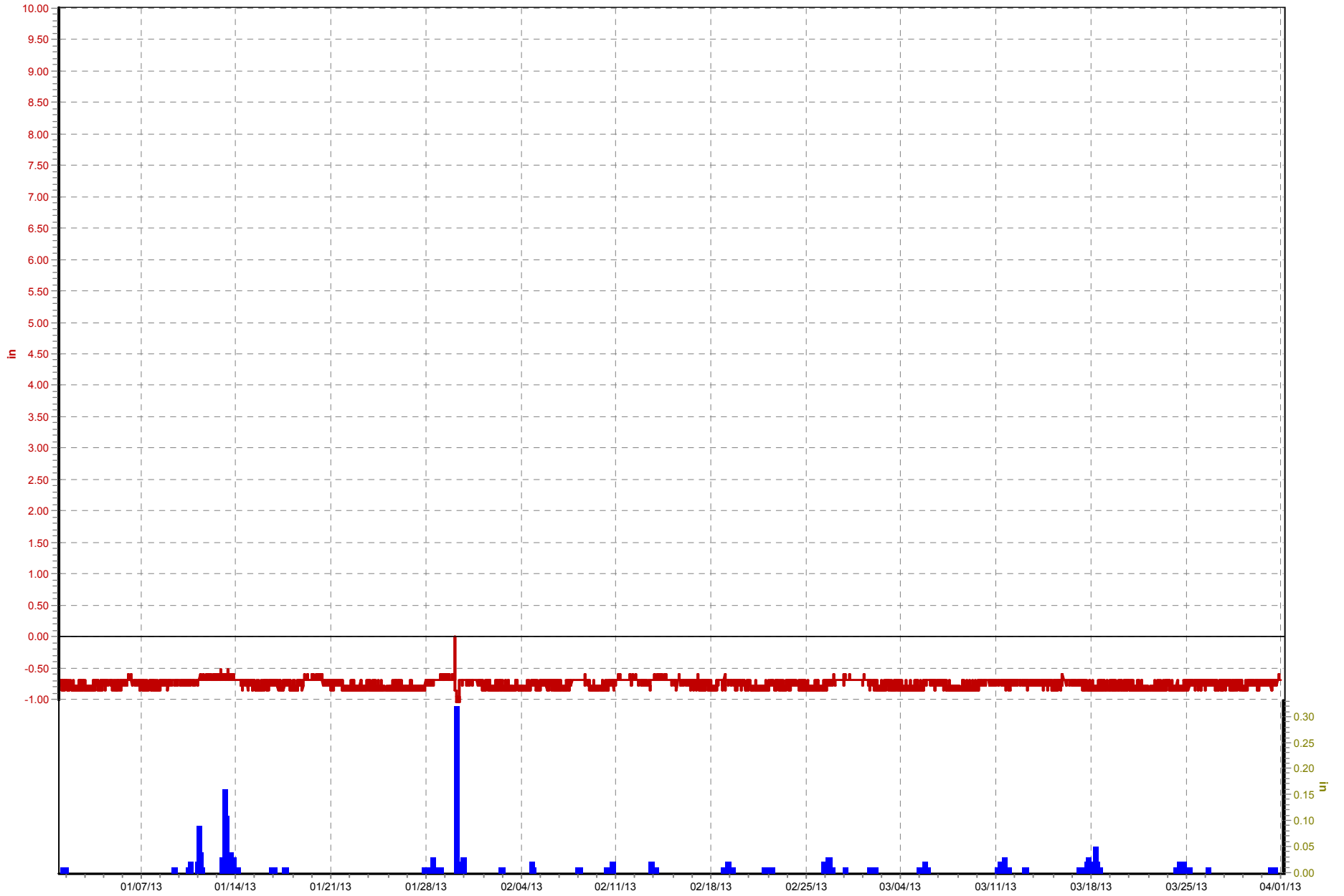
CSO184(01/01/13 to 04/01/13)

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



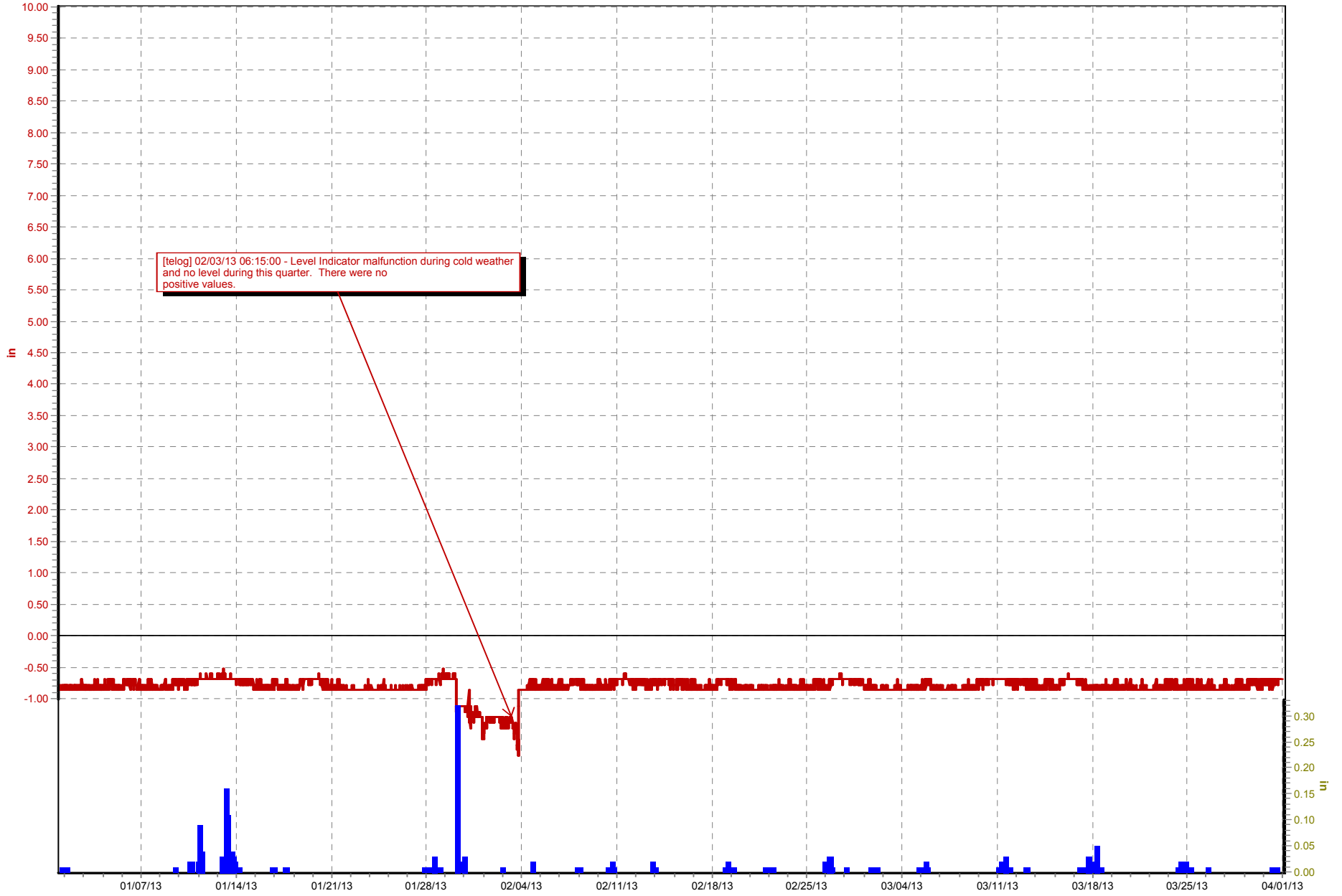
CSO186 Logan St (01/01/13 to 04/01/13)

Level (in) TR05_Beargrass PS.Rain (in)



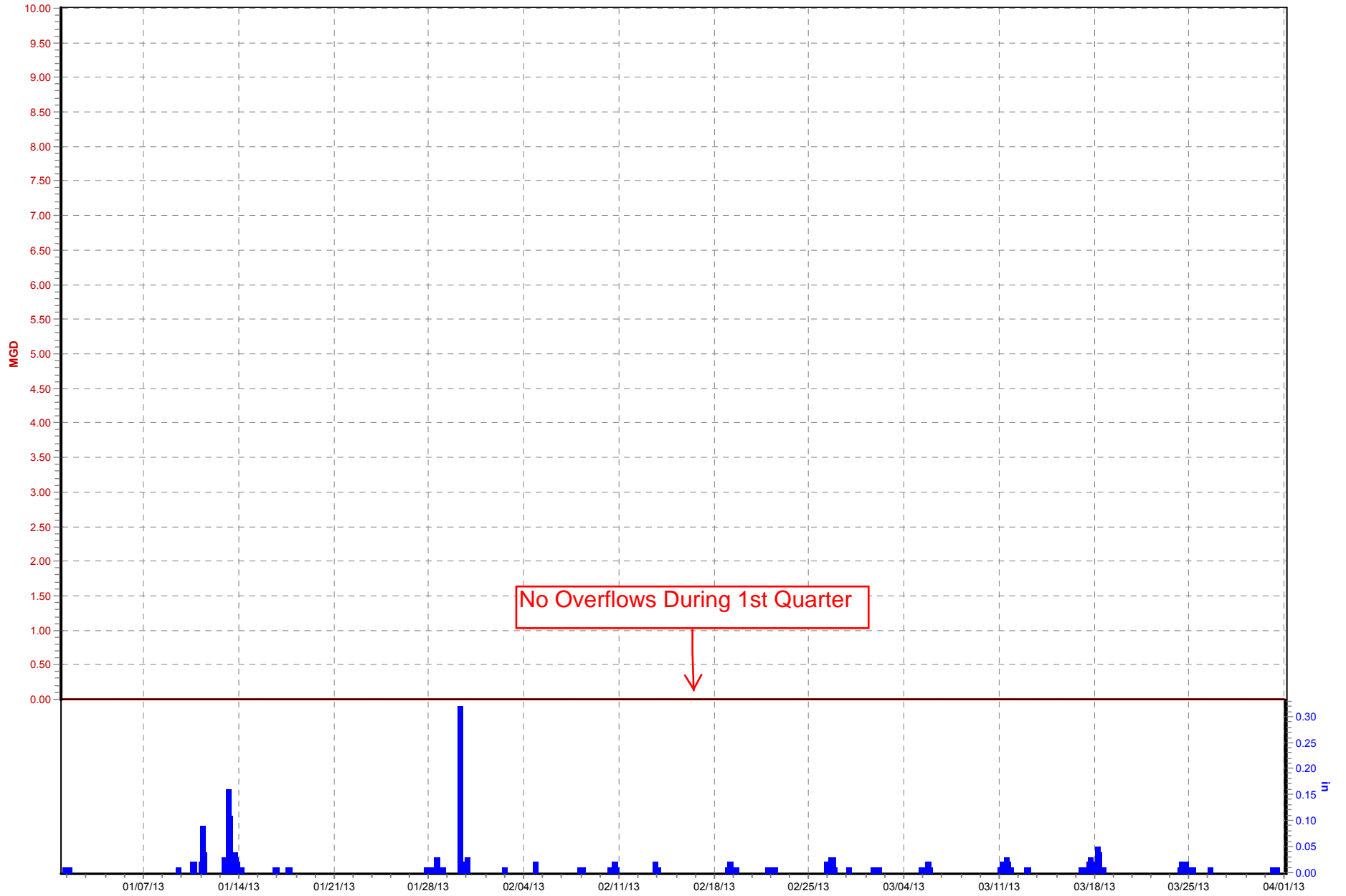
CSO187 Shelby St (01/01/13 to 04/01/13)

Level (in) TR05_Beargrass PS.Rain (in)



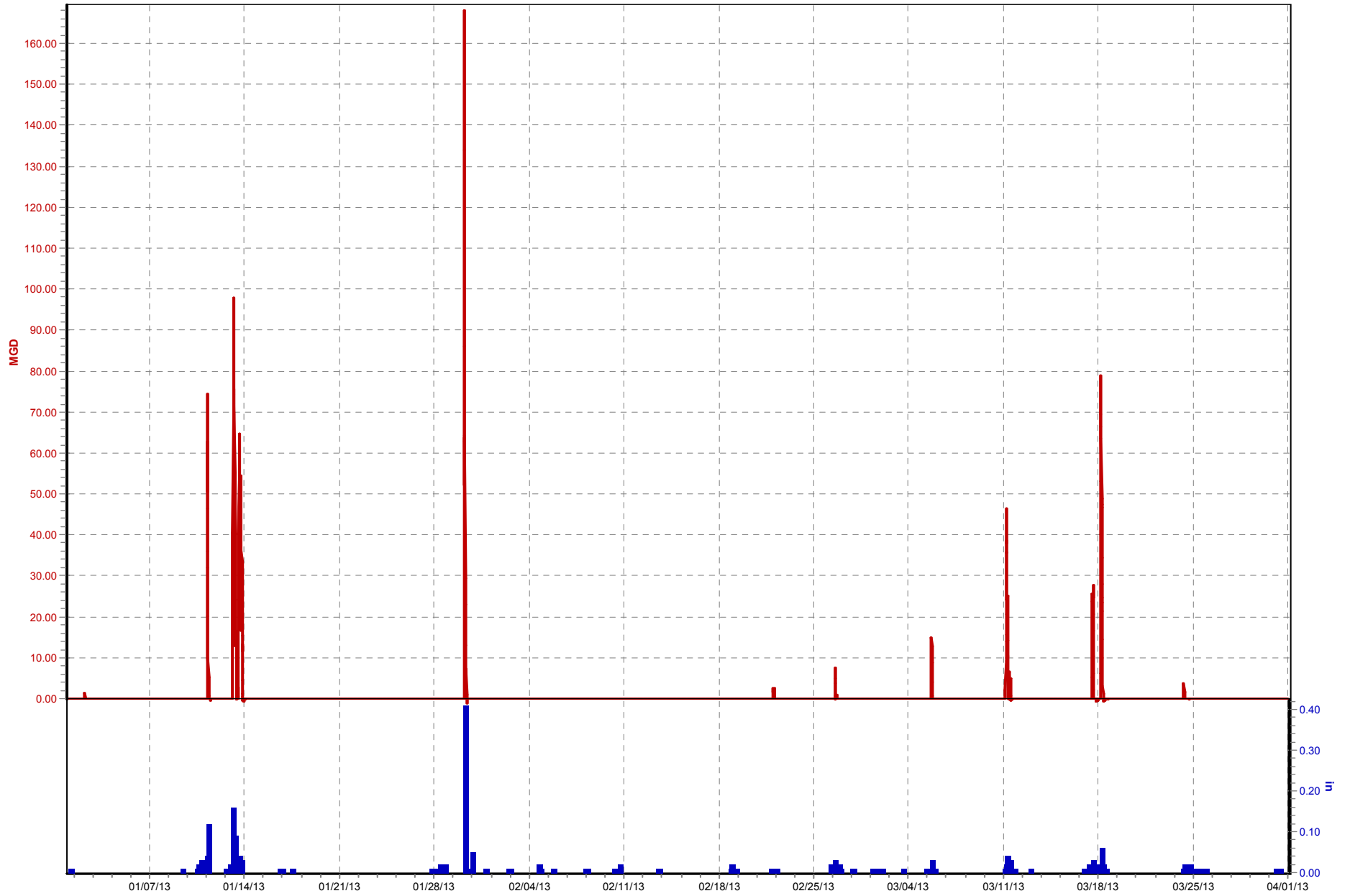
CSO188 Clay St (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



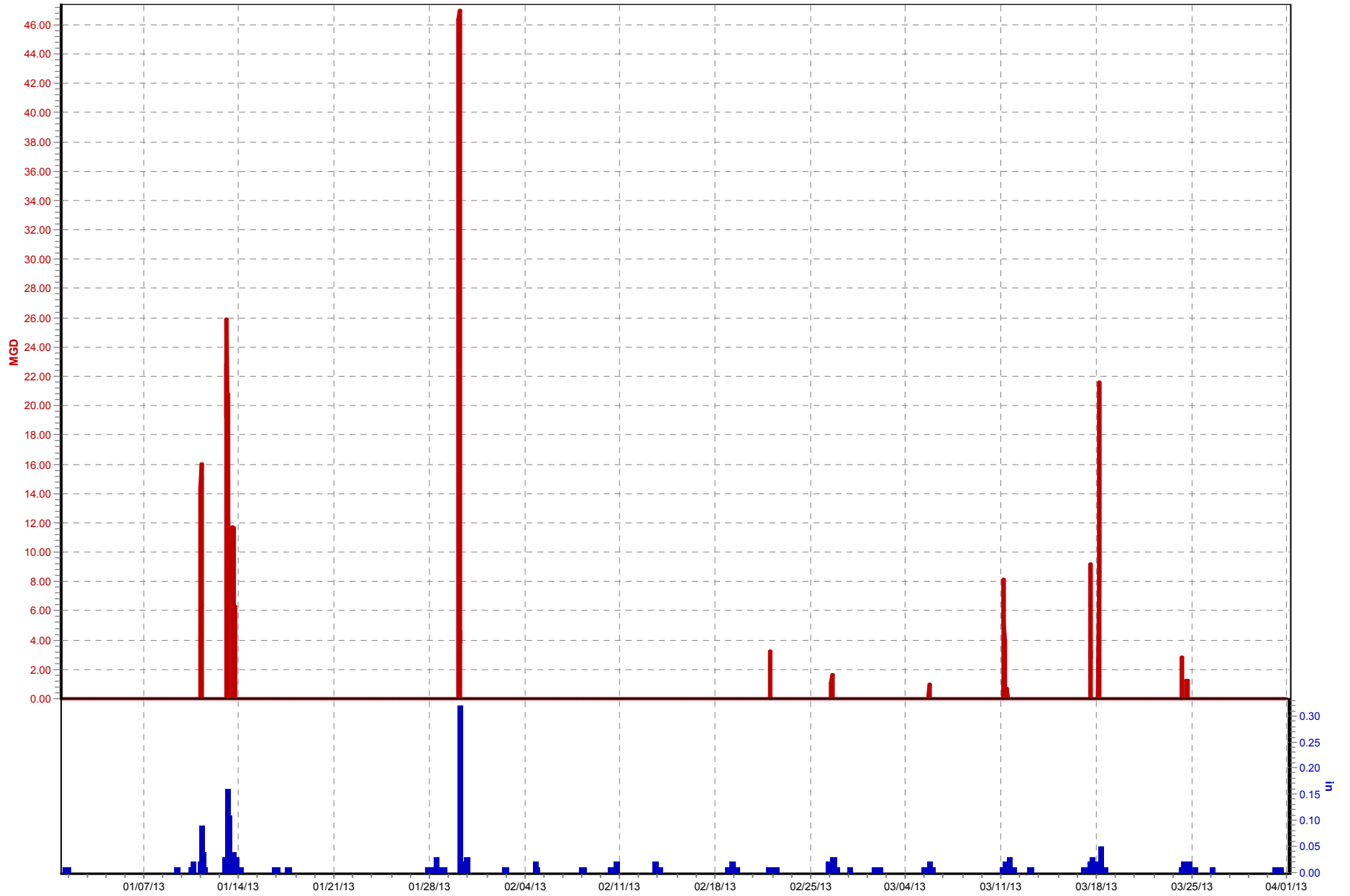
CSO189 Shawnee PK PS (01/01/13 to 04/01/13)

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



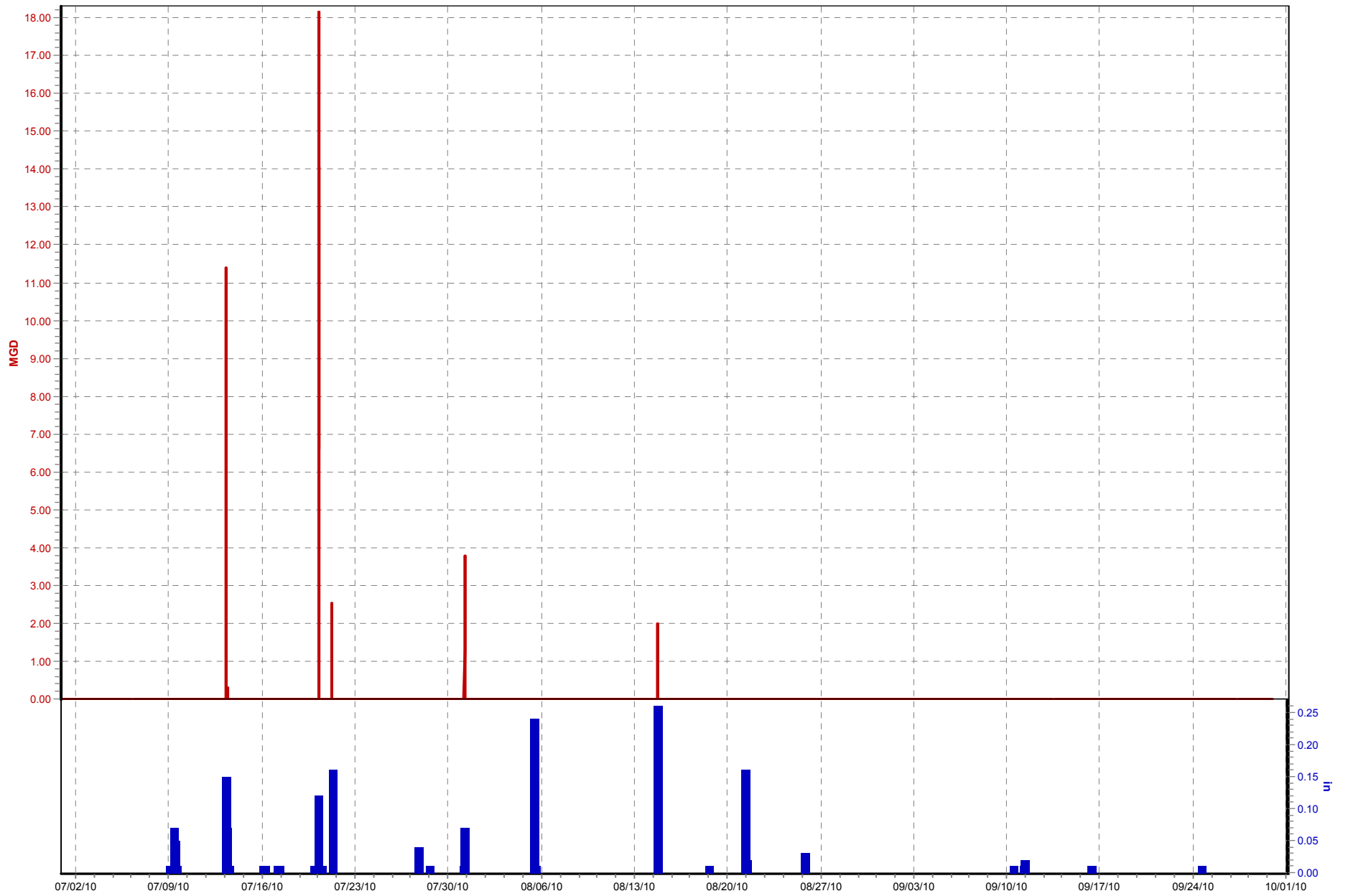
CSO190 NWest Pkwy (01/01/13 to 04/01/13)

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



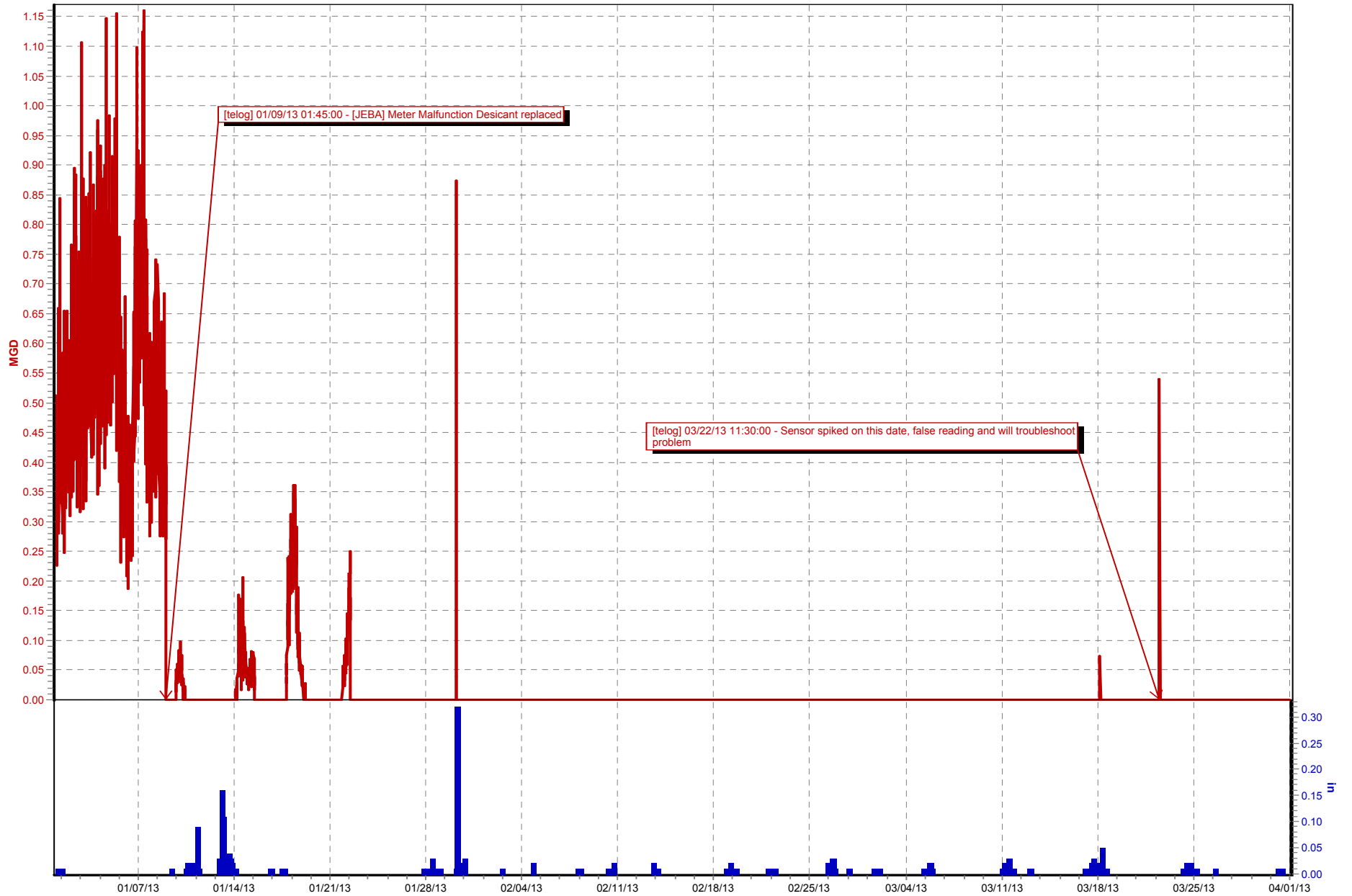
CSO191 Bells Lane PS (07/01/10 to 10/01/10)

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



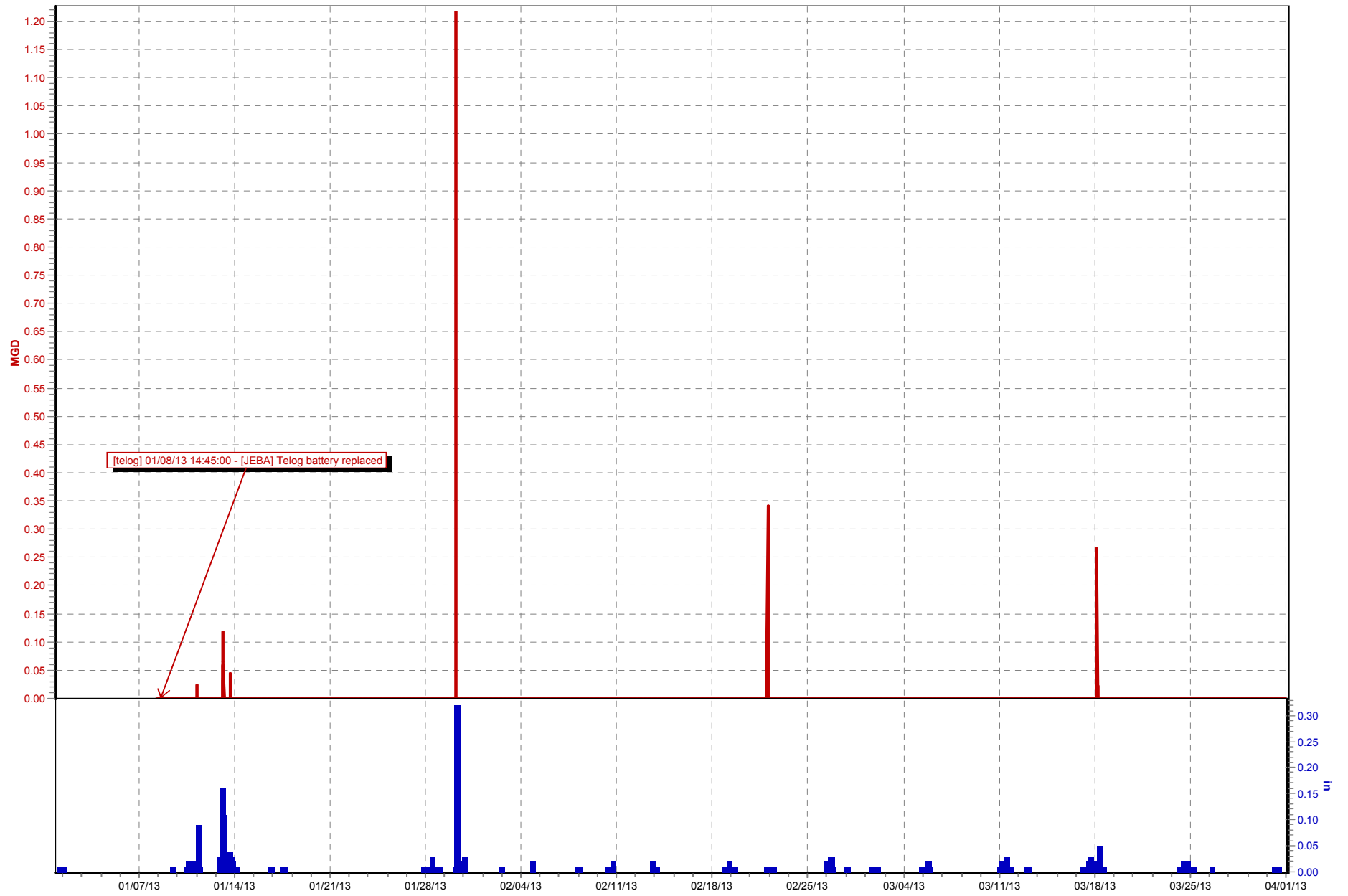
CSO193 6th and KY (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



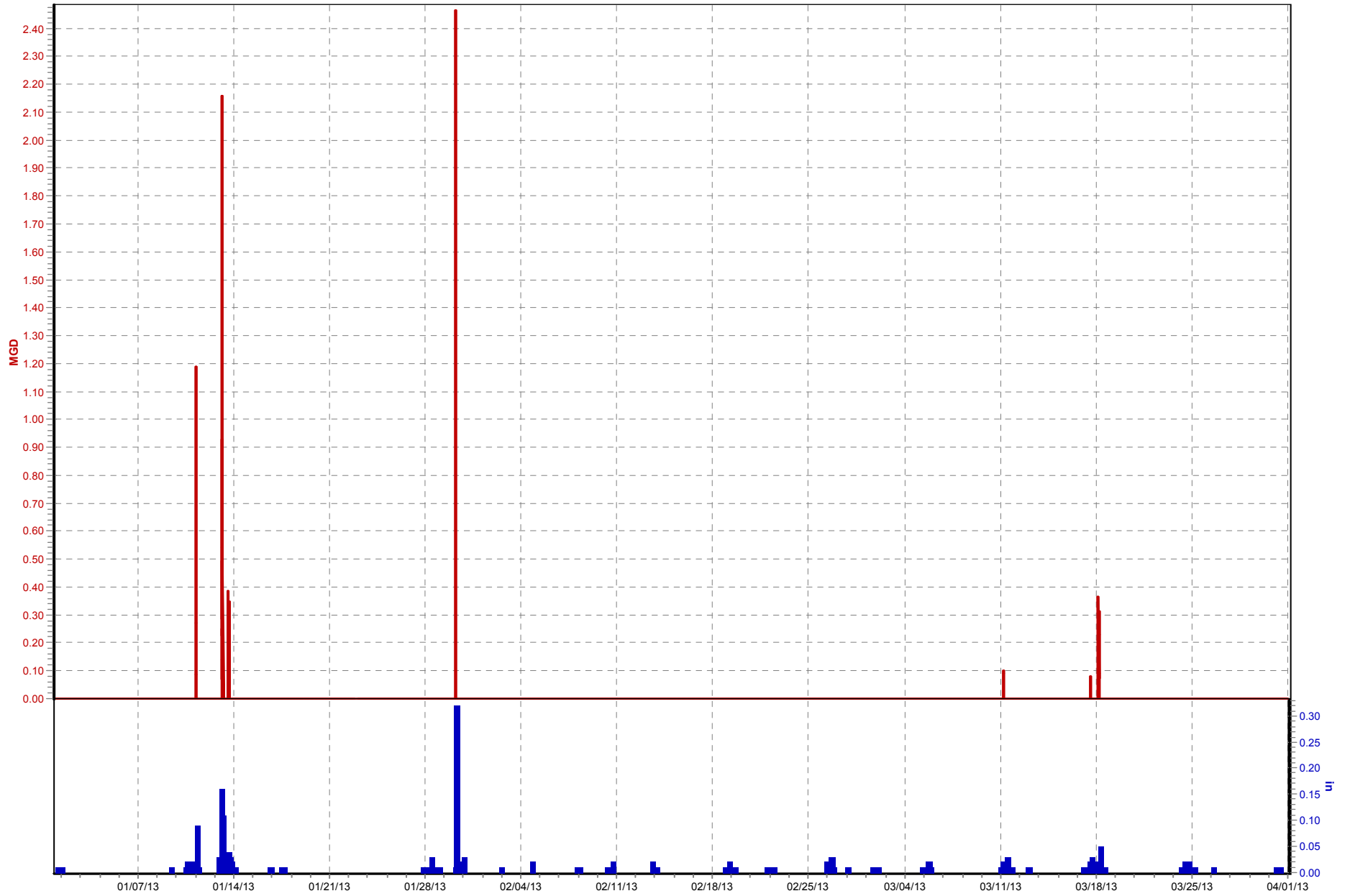
CSO195 S 4th St (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



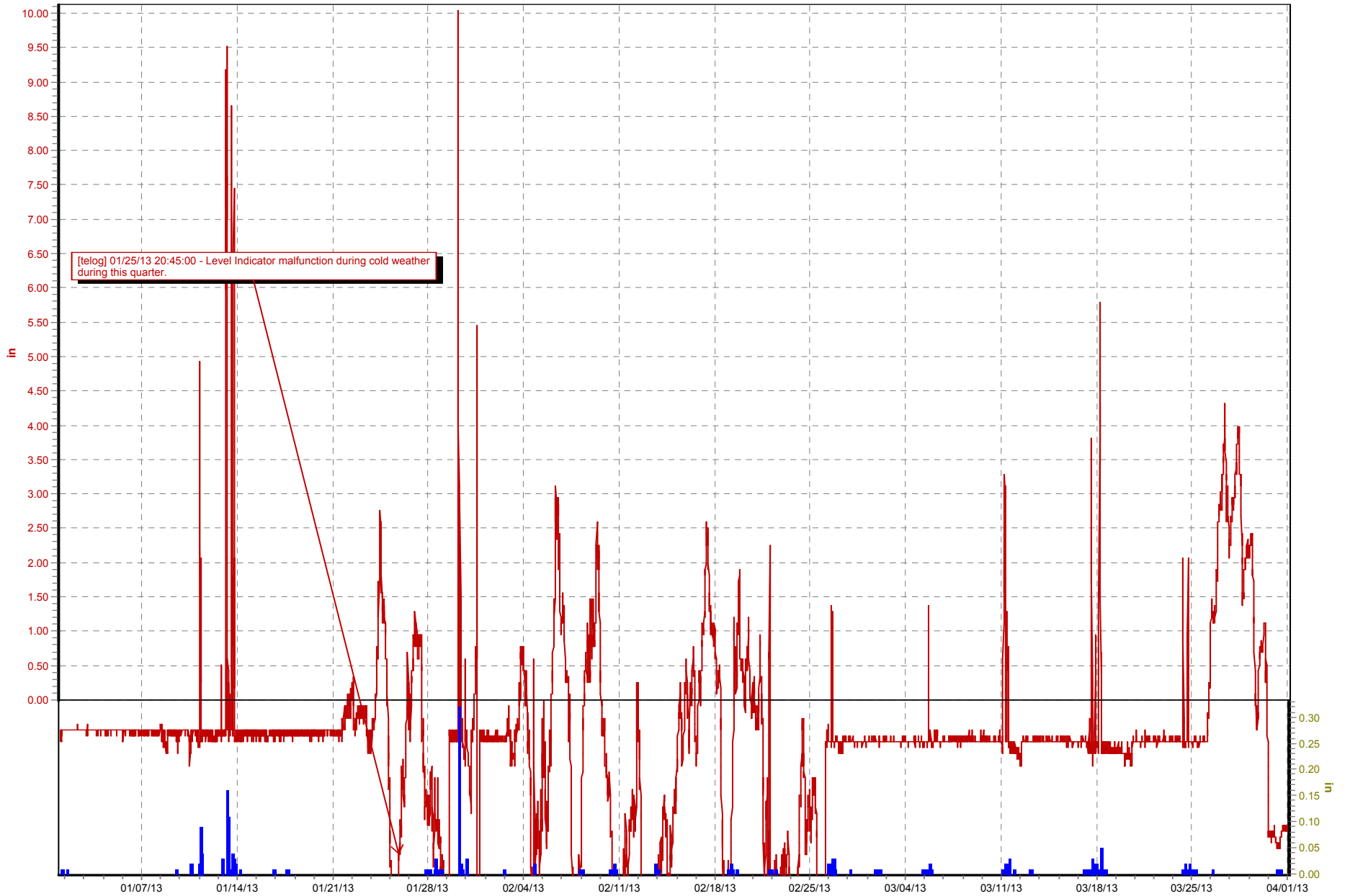
CSO196 (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



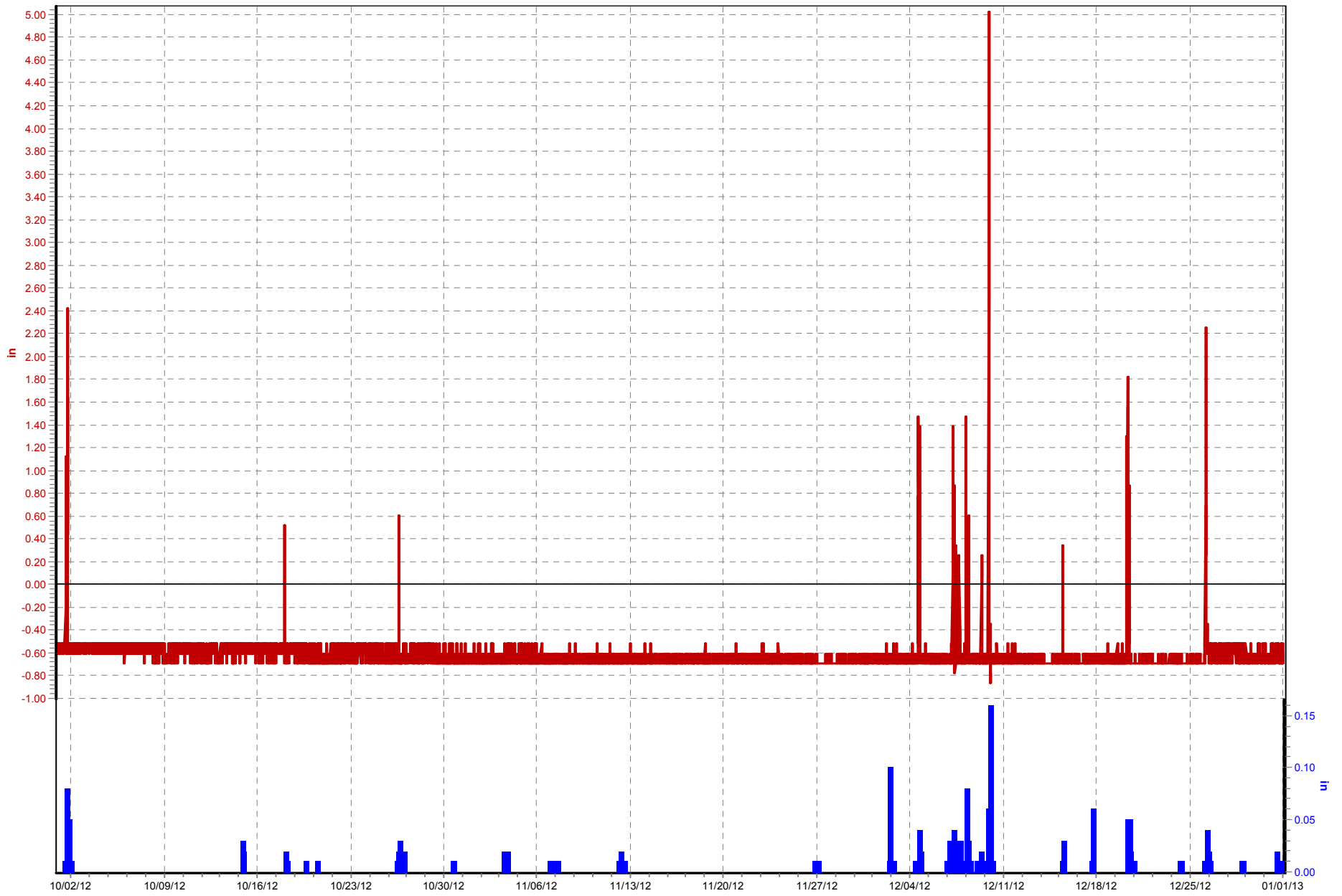
CSO197 S 3rd St (01/01/13 to 04/01/13)

Level (in) TR05_Beargrass PS.Rain (in)



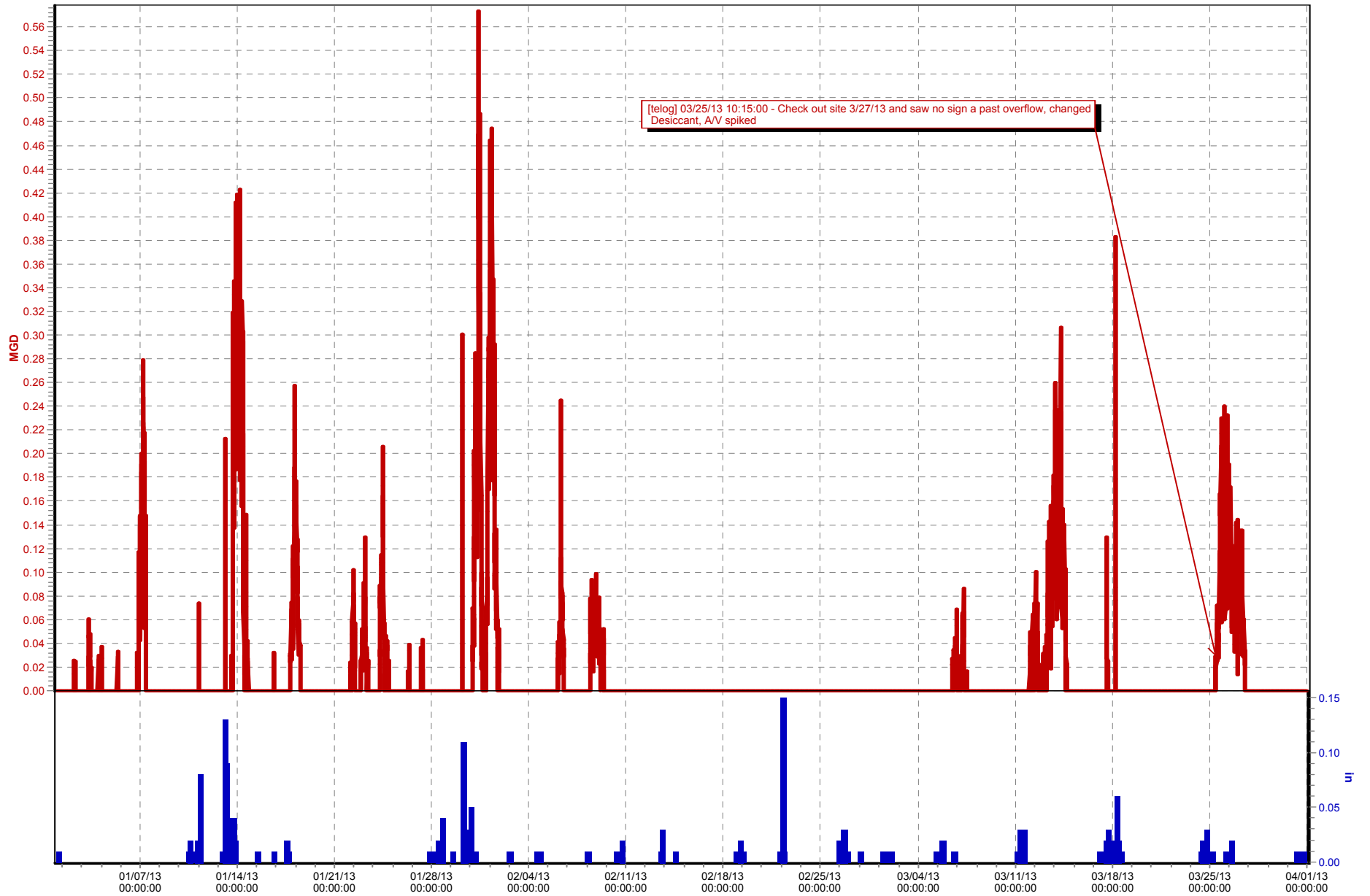
CSO198 S 3rd St (10/01/12 to 01/01/13)

Level (in) TR05_Beargrass PS.Rain (in)



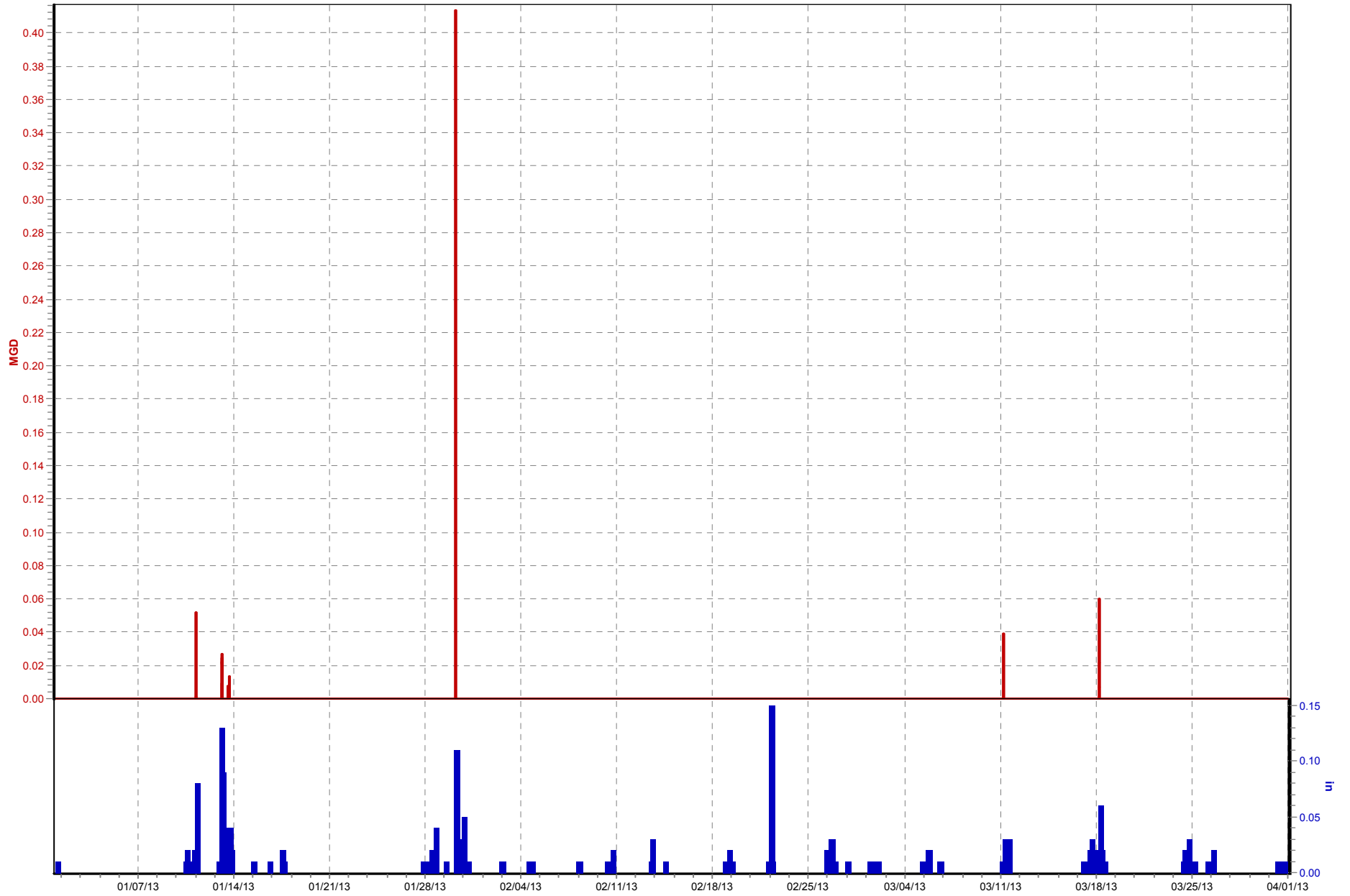
CSO199 S 3rd St (01/01/13 to 04/01/13)

Flow (MGD) CSO199_Hist.Flow 1 (MGD) TR12_Nightingale PS.Rain (in)



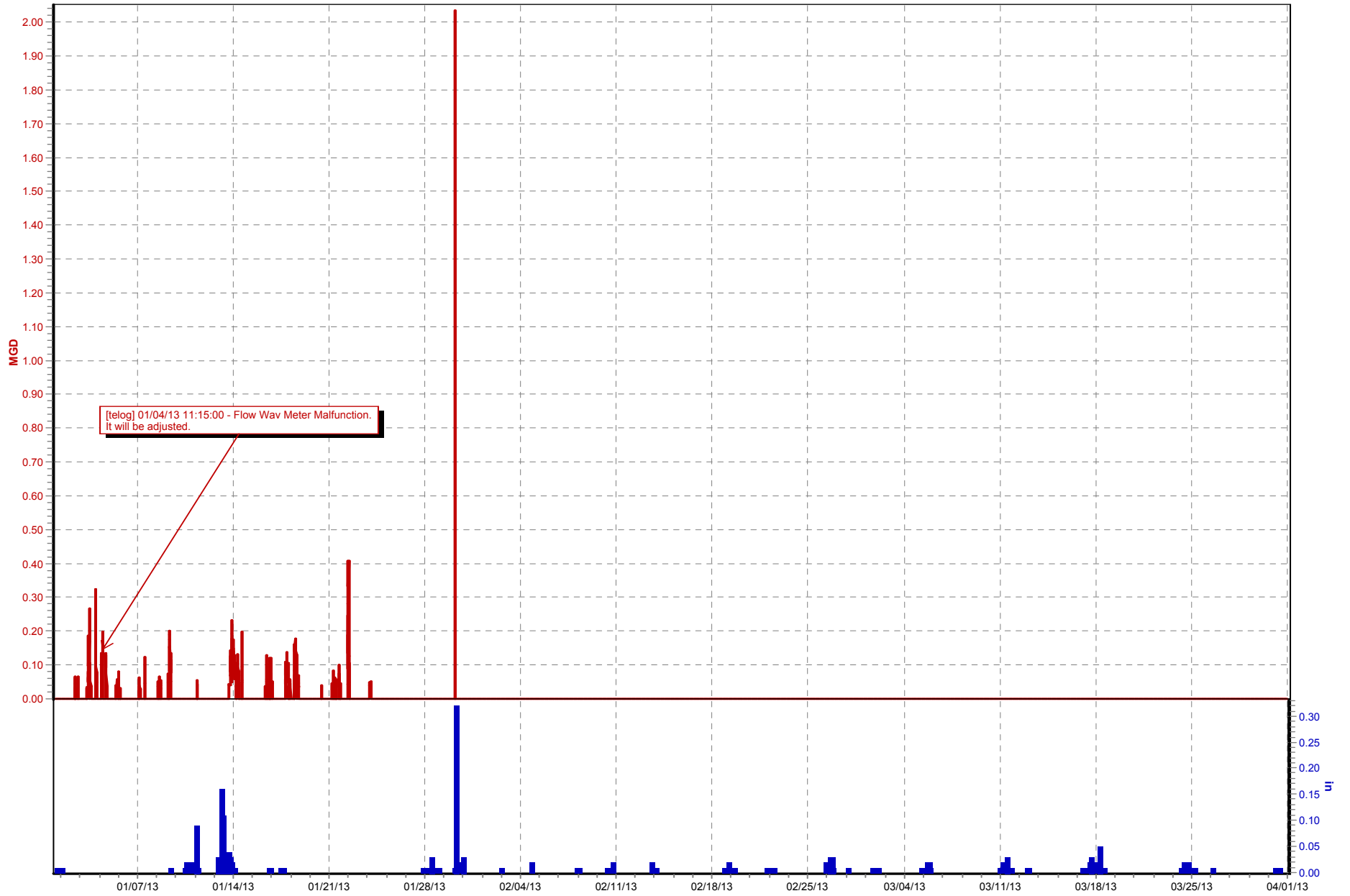
CSO200 S 3rd St (01/01/13 to 04/01/13)

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



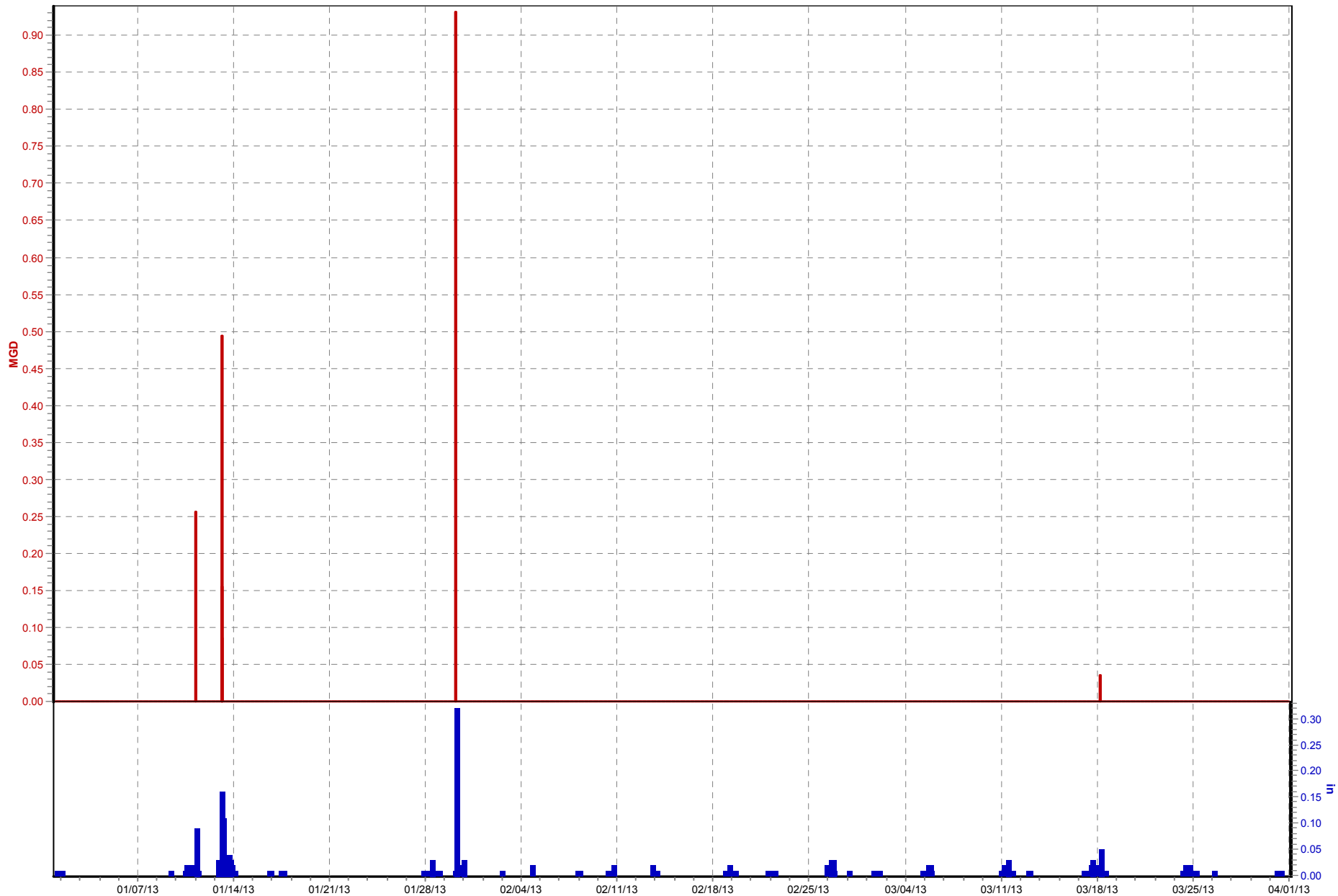
CSO201 S 5th St (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



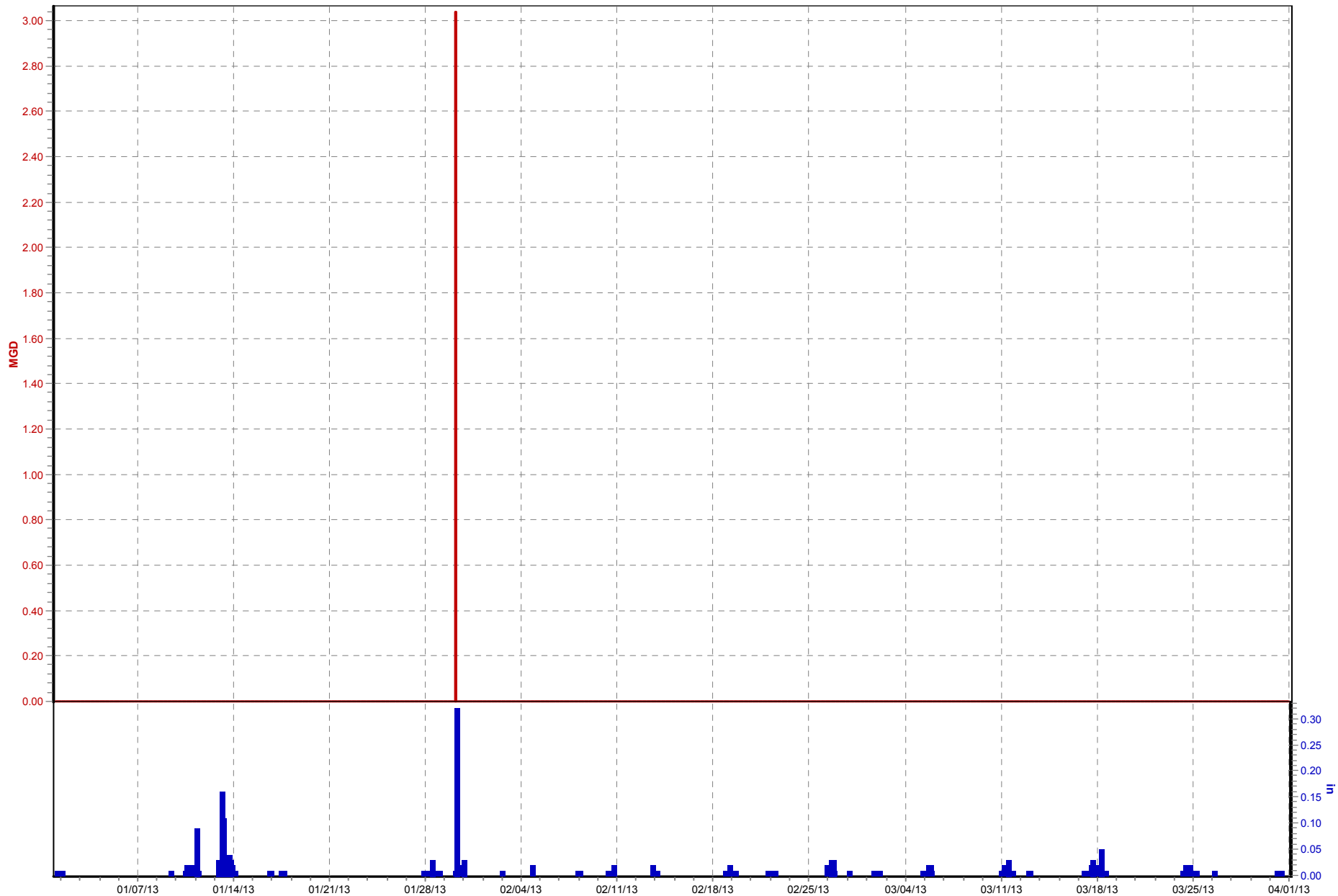
CSO202 W Ormsby Ave (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



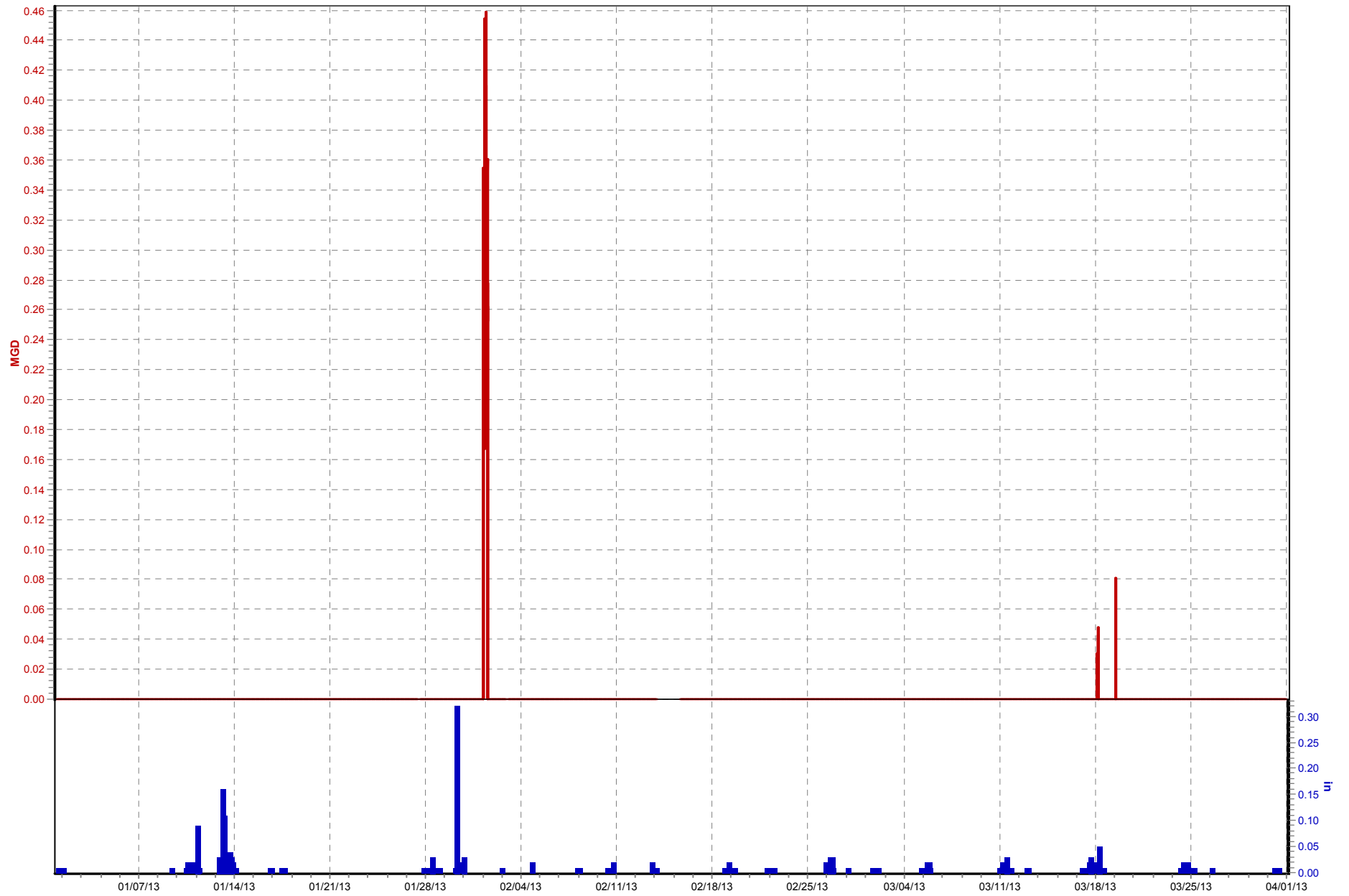
CSO203 S 4th St (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



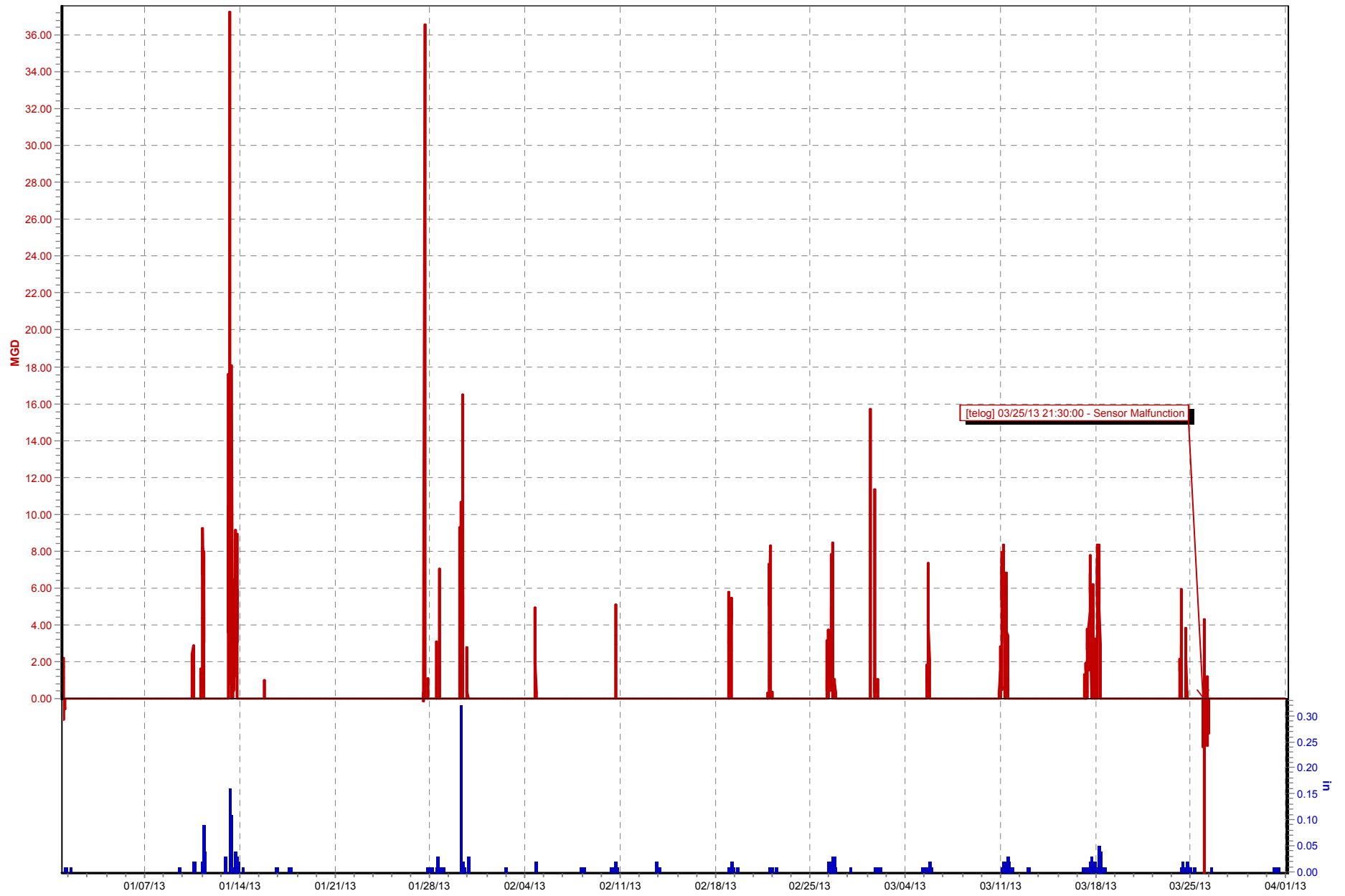
CSO205 Morgan St (01/01/13 to 04/01/13)

Flow (MGD) TR05_Beargrass PS.Rain (in)



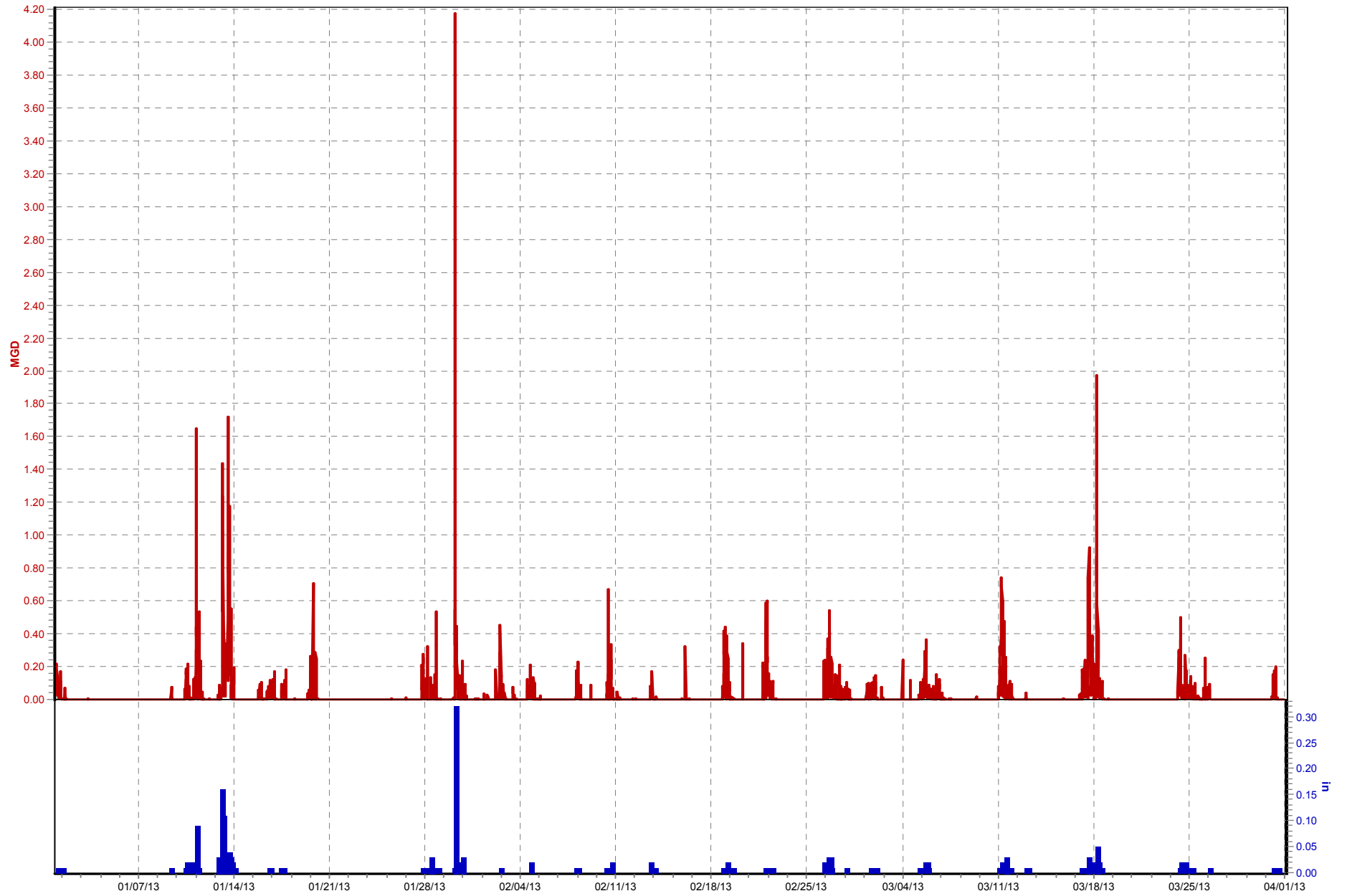
CSO206 Cherokee Park_String St (01/01/13 to 04/01/13)

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



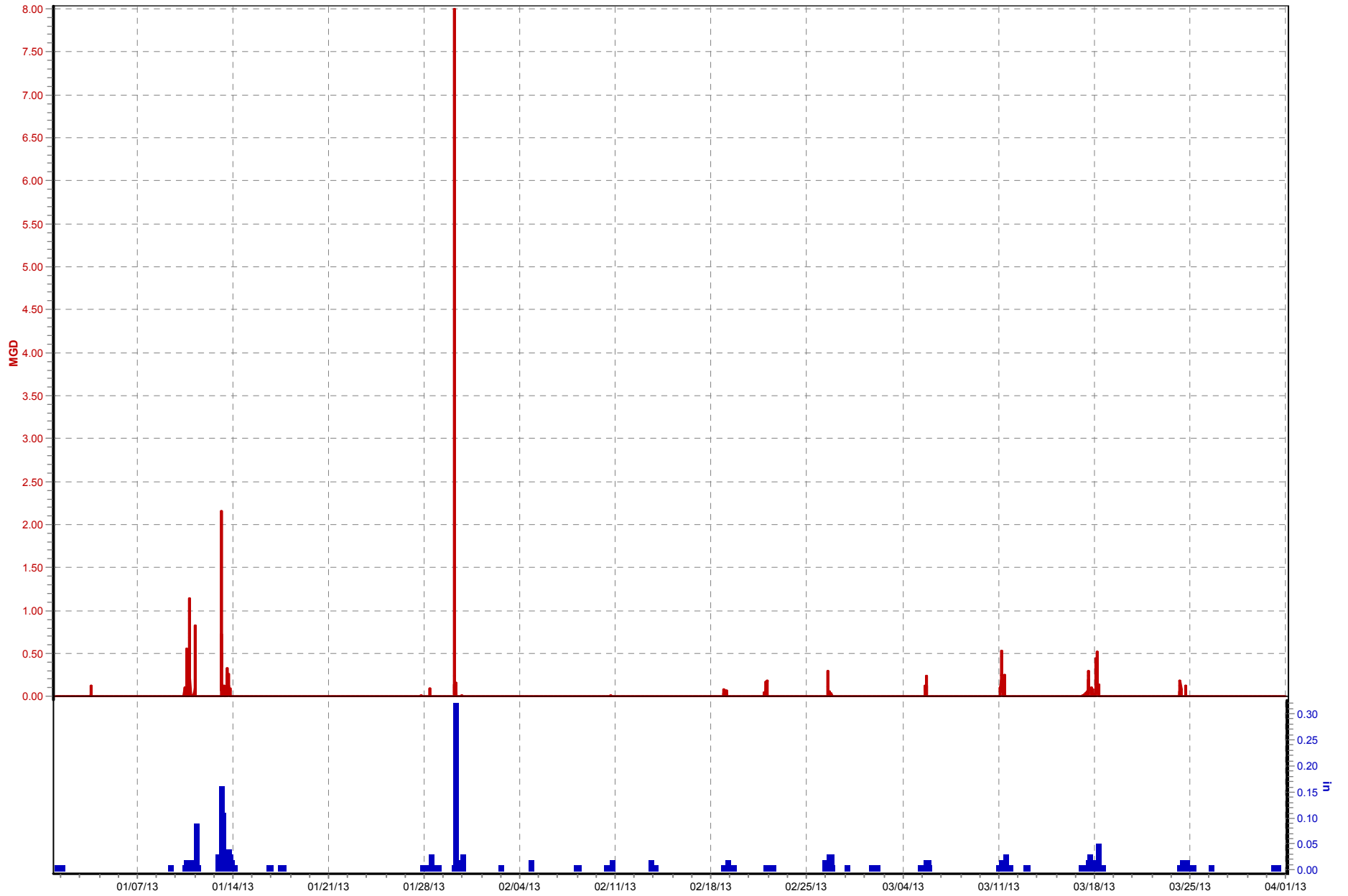
CSO207 W Jefferson St_2nd St (01/01/13 to 04/01/13)

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



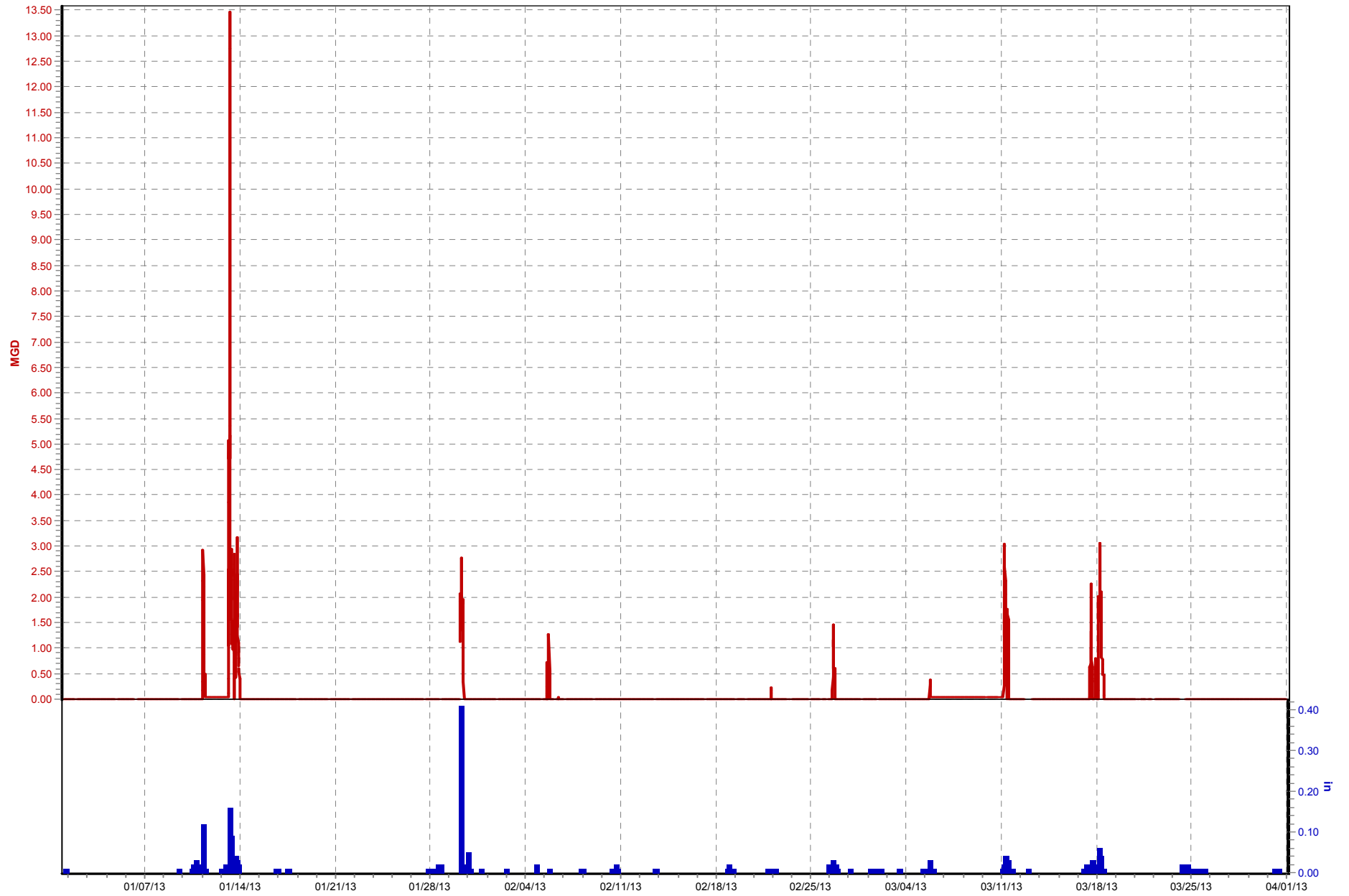
CSO208 W Jefferson St_12th St (01/01/13 to 04/01/13)

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



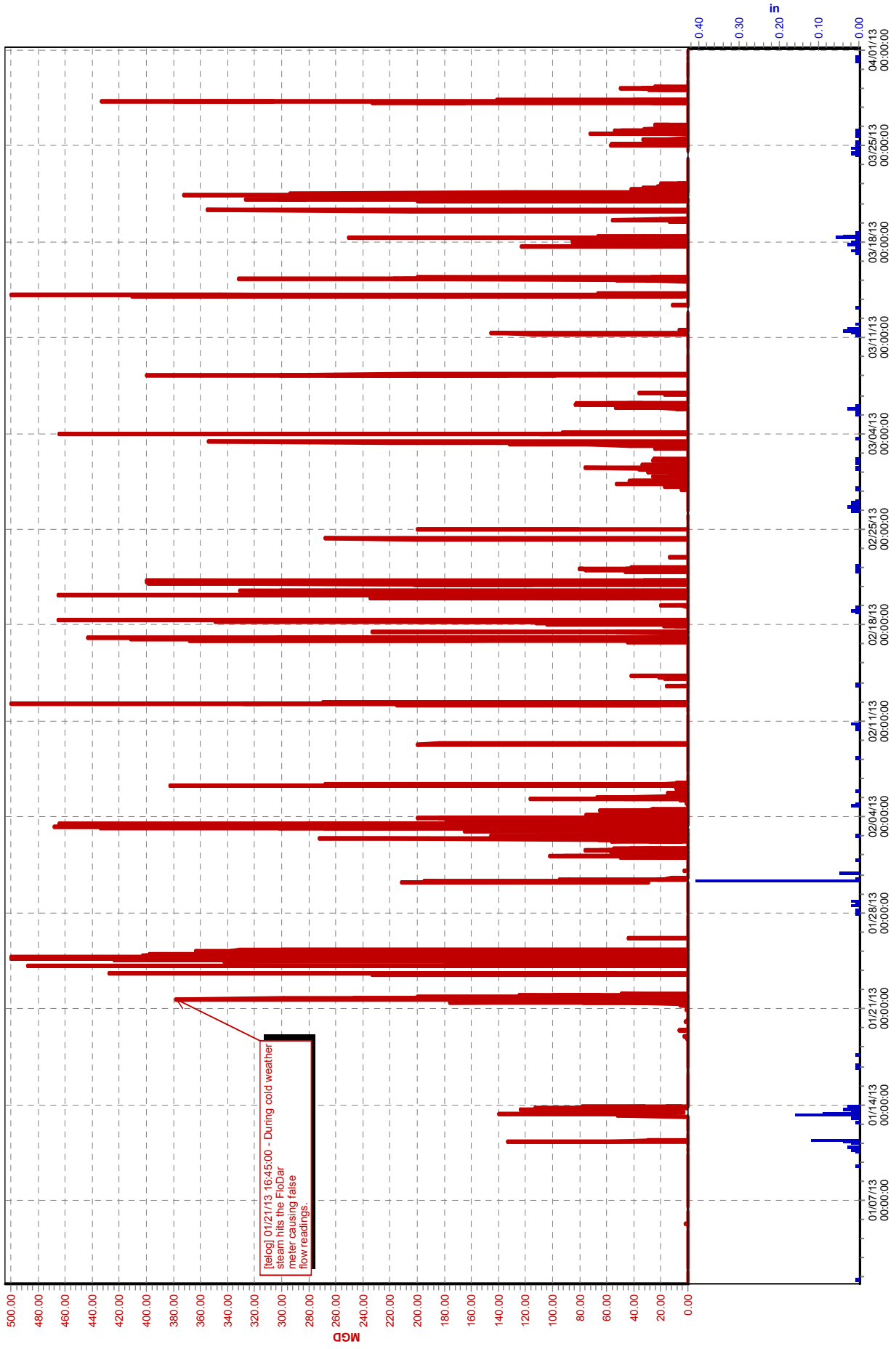
CSO210 Wayne Supply (01/01/13 to 04/01/13)

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



CSO211 Whayne Supply (01/01/13 to 04/01/13)

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