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July 31, 2015

Chief, Environmental Enforcement Section  
Environment and National Resources Division  
U.S. Department of Justice  
Box 7611 Ben Franklin Station  
Washington, D.C. 20044-7611  
Re: DOJ No. 90-5-1-1-09841

Brad Ammons  
Environmental Engineer  
Clean Water Enforcement Branch  
Municipal & Industrial Enforcement Section  
U.S. EPA Region 4  
61 Forsyth St., SW  
Atlanta, GA 30303

Karl Fingerhood  
Environmental Enforcement Section  
U.S. Department of Justice  
Box 7611 Ben Franklin Station  
Washington, D.C. 20044-7611


RI: City of Jackson, Mississippi, EPA Consent Decree  
**9<sup>th</sup> Quarterly Report, April 2015 through June 2015**  
5<sup>th</sup> Semi Annual SIP Report, January 2015 through June 2015

Dear Gentlemen:

Attached please find Quarterly Report No. 9 for the period of April 2015 through June 2015 and Supplemental Environmental Project Semi Annual Report #5. The reports were developed and submitted by the City in accordance with the EPA Consent Decree dated March 1, 2013 and your correspondence of May 31, 2013.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluated 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.

Sincerely,



Tony T. Yarber  
Mayor

cc: Les Herrington, P.E., Mississippi Department of Environmental Quality  
Gus McCoy, Chief Administrative Officer  
Monica Joiner, City Attorney  
Kishia L. Powell, P.E., Director, Department of Public Works  
Mary D. Carter, Deputy Director of Public Works  
Terry Williamson, Consent Decree Manager  
Public Depository, Eudora Welty Public Library

A large, dynamic splash of water dominates the left side of the page, extending from the top to the bottom. The water is captured in mid-air, creating a sense of movement and freshness. The background is a soft, light blue gradient.

The City *of*  
**j**ACKSON

**QUARTERLY  
REPORT NO. 9**

APRIL 2015 THROUGH JUNE 2015

Department of Public Works  
Wastewater Infrastructure Redevelopment Program



JULY 30, 2015

*City of Jackson*  
*Wastewater Infrastructure Redevelopment*  
*Program*

**Quarterly Report No. 9**  
**April 2015 through June 2015**

July 30, 2015

**Prepared for:**

City of Jackson  
Department of Public Works  
P.O. Box 17  
Jackson, MS 39205-0017

**Prepared by:**

WEI/AJA LLC  
143A LeFleurs Square  
Jackson, MS 39211

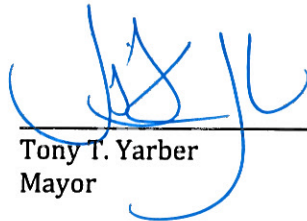
# City of Jackson, Mississippi

## Quarterly Report No. 9

### April 2015 through June 2015

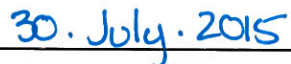
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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.



  
\_\_\_\_\_  
Tony T. Yarber  
Mayor

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Kishia L. Powell, Director  
Department of Public Works

  
\_\_\_\_\_  
Date

**Quarterly Report No. 9**  
**April 2015 through June 2015**

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## 1.0 Introduction

### 1.1 Consent Decree Overview

On March 1, 2013, the U.S. District Court for the Southern District of Mississippi entered a Consent Decree (CD) agreed to by the City of Jackson, Mississippi (City), U.S. Environmental Protection Agency (EPA), and the Mississippi Department of Environmental Quality (MDEQ,) regarding the City's wastewater collection and treatment system. Over a 17½ year timeline, the Consent Decree requires the City to:

- Develop, submit, finalize, and implement plans for the continued improvement of the Wastewater Collection and Transportation System (WCTS) and Wastewater Treatment Plants (WWTPs);
- Eliminate Sanitary Sewer Overflows (SSOs), effluent limit violations (including any violations of the new effluent limits for nutrients), and reporting violations, and
- Minimize Prohibited Bypasses.

One of the ongoing requirements of the EPA Consent Decree is to submit periodic reports to demonstrate continuing compliance. The specific reporting requirements of the CD are described below.

### 1.2 Authority to Promulgate

The City of Jackson Public Works Department (JPWD) established the Wastewater Infrastructure Redevelopment Program in 2004. The Waggoner Engineering/AJA Management and Technical Services joint venture company, WEI/AJA LLC, was retained to assist the City in addressing the requirements of the Consent Decree under the existing Program Management contract for the Wastewater Infrastructure Redevelopment Program. Accordingly, the Program Management team compiled this Quarterly Report from information provided by the City and its contractors to fulfill the requirements of Section IX ¶ 57 (a) set forth in the CD.

### 1.3 Consent Decree Requirements for Quarterly Report

As stated in the Consent Decree Section IX ¶ 57 (a), the Quarterly Report shall be submitted beginning thirty (30) Days after the first full three (3)-month period following the Date of Entry of this Consent Decree, and thirty (30) Days after each subsequent three (3)-month period until termination of the Consent Decree and shall contain the following, at a minimum:

Quarterly Reports. Beginning thirty (30) Days after the first full three (3) month period following the Date of Entry of this Consent Decree, and thirty (30) Days after each subsequent three (3)-month period thereafter until termination of the Consent Decree, the City shall submit to EPA for review and approval a Quarterly Report that shall include the following:

- (i) the date, time, location, source, estimated duration, estimated volume, receiving water (if any), and cause of all SSOs occurring in the applicable three (3)-month period in a tabulated electronic format; and
- (ii) (ii) the date, time, estimated duration, estimated volume, and cause of all Prohibited Bypasses occurring in the applicable three (3)-month period in a tabulated electronic format.

The listing and graphical summaries of the SSOs and prohibited bypasses for April - June 2015 are presented in Section 2 of this report.

#### 1.4 Other Requirements for Quarterly Report

EPA approved the CMOM Training Program, subject to comments, on April 25, 2014. One comment requested that the City include in its quarterly reports its efforts to fill the Training Coordinator position.

A status update for filling the Training Coordinator position is included in Section 3 of this report.

## 2.0 Summary of SSOs and Prohibited Bypasses

SSOs are divided into three elements of the wastewater system: the collection system, pump stations, and West Bank Interceptor. Prohibited bypasses at the Savanna Street Wastewater Treatment Facility (SSWWTF), in periods when they occur, are listed separately.

### 2.1 Collection System SSOs

**Table 1** lists SSOs in the collection system for April through June 2015. Each day of a multiple day event is considered as a separate SSO, in accordance with penalties in the CD.

One SSO from March 2015 is included in Table 1. This SSO was not included in Quarterly Report No. 8. The statistics for this SSO will be included with the monthly statistics in Annual Report No. 3.

**Figure 1** shows SSO events by month as a result of the following reported causes:

- Grease
- Roots
- Solids
- Collapsed Pipe
- Pump Station Failure
- Excessive Flow
- Undersized Line
- Other

Some SSO events had multiple causes. In these instances, each cause was assigned a fractional value, adding up to a total of one cause for each event.

**Figure 2** shows percentages of collection system SSOs for the quarter by cause. **Figure 3** shows total volume of SSOs for each month. Volumes are plotted on a logarithmic scale because of the large monthly variations. **Figure 4** shows total duration of SSOs for each month.



**Table 1**  
**City of Jackson, Mississippi**  
**Quarterly Report No. 9 - April 2015 through June 2015**  
**Collection System SSOs**

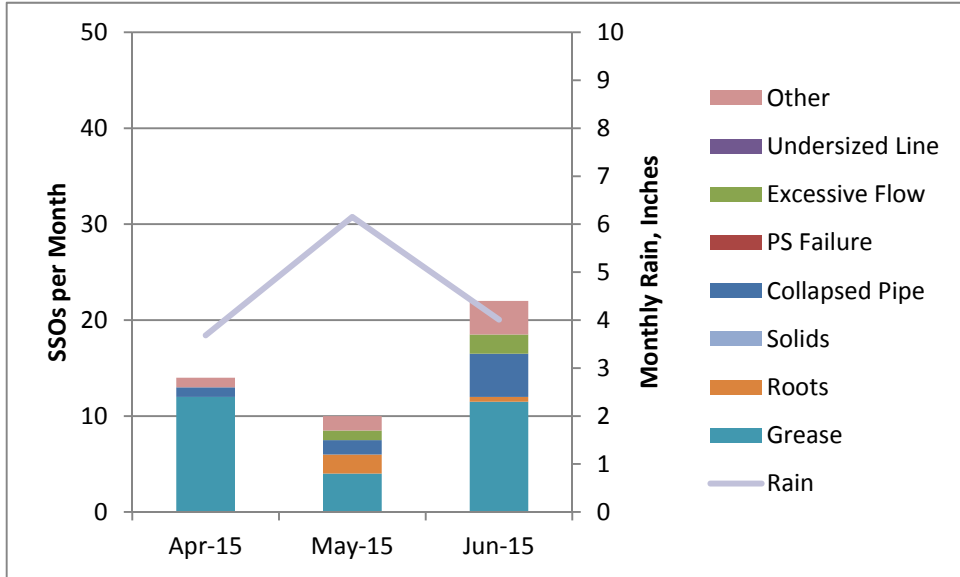
Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
3/10/2015*	4:00 PM	540 FORD AVE	Cleanout	0.50	50	Cany	Grease. Solids. Choked main line.
4/3/2015	9:20 AM	145 LORENZ BLVD	Manhole	2.67	800	Town	Grease.
4/3/2015	2:00 PM	LORENZ BLVD MILL ST	Manhole	1.17	120	Town	Grease.
4/8/2015	10:15 AM	5554 DECKARD DR	Cleanout	2.20	20	Lynch	Grease.
4/9/2015	12:20 PM	4044 W CAPITOL ST	Cleanout	0.17	20	Lynch	Grease.
4/9/2015	4:10 PM	205 MAYWOOD CIR	Other	2.07	20	Eastover	Grease.
4/9/2015	6:14 PM	316 COLONIAL CIR	Ground Surface (defective pipe underground)	1.03	40	White Oak	Collapsed Pipe. Defective Pipes.
4/13/2015	11:33 AM	2117 OAKHURST DR	Manhole	1.45	750	Three Mile	Grease.
4/14/2015	9:00 AM	936 SUMMER ST	Cleanout	3.42	200	Lynch	Grease.
4/17/2015	4:20 PM	301 MCTYERE AVE	Manhole	2.23	400	Town	Grease.
4/21/2015	12:41 PM	3704 N STATE ST	Manhole	1.47	90	Eubanks	Grease.
4/21/2015	2:08 PM	2050 LONDON AVE	Manhole	2.38	500	Eastover	Grease.
4/23/2015	10:37 AM	3704 N STATE ST	Manhole	2.23	40	Eubanks	Grease.
4/27/2015	3:05 PM	749 MONTCLAIR PL	Cleanout	0.95	200	Eubanks	Grease.
4/28/2015	8:10 AM	1404 WINCHESTER ST	Ground Surface (defective pipe underground)	2.57	50	Hanging Moss	Collapsed Pipe. Cave-in over main line.
5/1/2015	9:32 AM	4150 CRANE BLVD	Ground Surface (defective pipe underground)	2.23	40	Eubanks	Grease.
5/3/2015	12:55 PM	4625 HERITAGE PL	Manhole	0.67	200	Trahan	Grease.
5/4/2015	10:35 AM	5406 I 55 N	Manhole	1.23	400	Hanging Moss	Roots.
5/5/2015	9:49 AM	3611 N STATE ST	Manhole	0.93	100	Eubanks	Main Line is broken down.
5/5/2015	10:54 AM	222 MCTYERE AVE	Cleanout	0.23	70	Town	Grease.
5/6/2015	12:54 PM	330 NORTHPOINTE PKWY	Manhole	1.23	85	Purple	Roots.
5/24/2015	9:24 AM	3929 ARCHER AVE	Cleanout	0.90	250	Cany	Excessive Flow.
5/27/2015	1:48 PM	535 INDUSTRIAL DR	Ground Surface (defective pipe underground)	10.18	400	Town	Collapsed Pipe. Pipe crack at the bottom 1 ft outside manhole.
5/27/2015	3:47 PM	5754 I 55 N	Manhole	1.85	125	Hanging Moss	Grease.
5/31/2015	10:02 AM	4634 TENNYSON ST	Ground Surface (defective pipe underground)	2.12	60	Eubanks	Collapsed Pipe.
6/2/2015	3:54 PM	MEADOW HEIGHTS DR	Manhole	2.13	250	Eubanks	Grease. Rags.
6/3/2015	9:18 AM	4380 BROOK DR	Manhole	0.65	250	Eubanks	Grease. Rags.
6/4/2015	10:55 AM	316 COLONIAL CIR	Manhole	6.27	75	White Oak	Grease. Rags.
6/4/2015	2:45 PM	448 CAMBRIDGE LANE	Manhole	3.75		Trahan	Grease. Roots.
6/4/2015	5:44 PM	805 HICKORY RIDGE DR	Ground Surface (defective pipe underground)	1.42	40	Eubanks	Grease.
6/12/2015	8:20 AM	202 E RIDGEWAY ST	Ground Surface (defective pipe underground)	5.17	340	Town	Collapsed Pipe.
6/12/2015	2:17 PM	MEADOWBROOK ROAD WEST ST	Manhole	2.37	40	Eubanks	Grease. Rags.
6/18/2015	12:34 PM	134 IRIS AVE	Manhole	0.73	10	Eubanks	Grease.
6/18/2015	3:18 PM	132 HICKORY CV	Manhole	2.03	130	Big Creek	Grease.
6/18/2015	3:58 PM	761 KENSINGTON PL	Ground Surface (defective pipe underground)	2.78	75	Eubanks	Collapsed Pipe.
6/19/2015	11:13 AM	308 MELBA ST	Manhole	1.67	250	Lynch	Grease.
6/19/2015	3:37 PM	1951 WINGFIELD CIR	Manhole	2.35	100	Lynch	Grease.
6/20/2015	3:04 PM	202 E RIDGEWAY ST	Manhole	1.72	220	Town	Grease.
6/21/2015	10:20 AM	212 PIMLICO PL	Manhole	2.27	120	Hanging Moss	Excessive Flow.

**Table 1**  
**City of Jackson, Mississippi**  
**Quarterly Report No. 9 - April 2015 through June 2015**  
**Collection System SSOs**

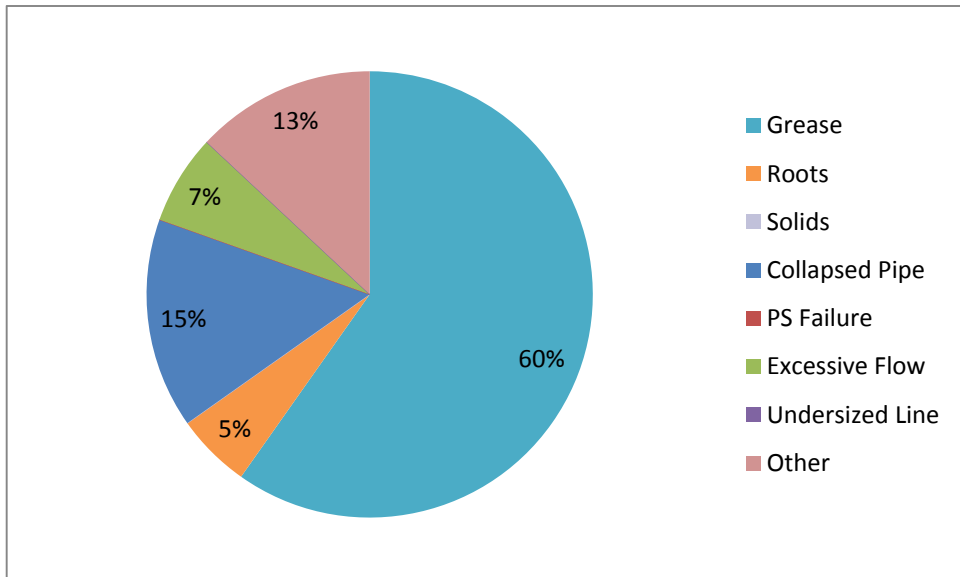
Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Receiving Water	Reported Cause
6/23/2015	2:55 PM	1317 COLLIER AVE	Cleanout	0.93	35	Town	Owner states that it's a broke service line..
6/23/2015	4:55 PM	105 ELCREST ST	Ground Surface (defective pipe underground)	0.38	40	Lynch	Collapsed Pipe.
6/26/2015	1:01 PM	114 WAYLAWN CT	Cleanout	1.63	20	Hanging Moss	Collapsed Pipe. Service Line.
6/27/2015	2:45 PM	1114 LYNCREST AVE	Ground Surface (defective pipe underground)	4.25	750	Belhaven	Collapsed Pipe.
6/28/2015	6:30 PM	316 ELM ST	Manhole	1.85	60	Town	Grease.
6/30/2015	10:32 AM	837 BROOKWOOD DR	Cleanout	2.28	80	Eubanks	Excessive Flow.
6/30/2015	1:21 PM	2124 EASTOVER DR	Manhole	2.28	180	Eastover	Grease.
6/30/2015	4:16 PM	3430 ALBERMARLE ROAD	Manhole	1.68	300	Town	Grease.

\* SSO on March 10 was not included in the Quarterly Report No. 8 for January - March 2015. This SSO will be included in monthly statisttic in Annual Report No. 3.

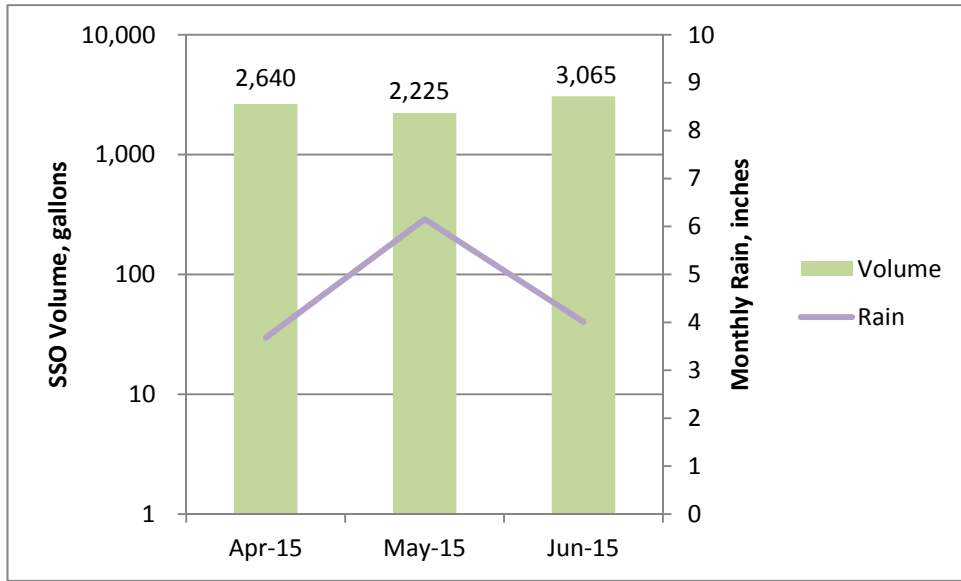
**Figure 1: Collection System SSOs by Cause**



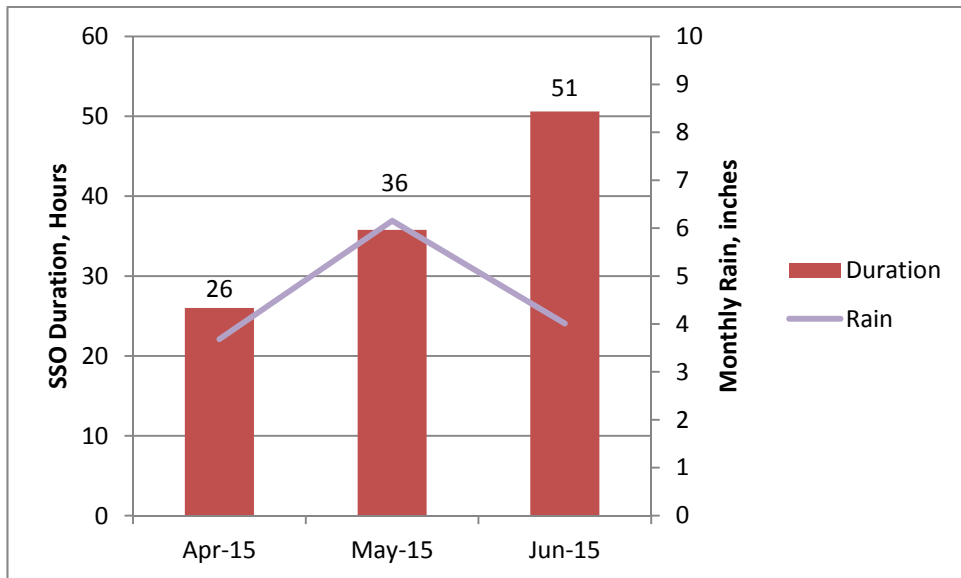
1.0	1.5	3.5	Other
0.0	0.0	0.0	Undersized Line
0.0	1.0	2.0	Excessive Flow
0.0	0.0	0.0	PS Failure
1.0	1.5	4.5	Collapsed Pipe
0.0	0.0	0.0	Solids
0.0	2.0	0.5	Roots
12.0	4.0	11.5	Grease
14.0	10.0	22.0	Total



**Figure 3: Collection System SSO Volume**



**Figure 4: Collection System SSO Duration**



## 2.2 Pump Station SSOs

**Table 2** lists pump station SSOs for the quarter. No SSOs were reported in April.

**Figure 5** shows pump station SSO events by month by reported cause, as listed above, as well as monthly rainfall.

**Figure 6** shows percentage of SSOs by cause for the quarter. Note that one SSO had two causes; each cause was computed as one-half to determine the percentage.

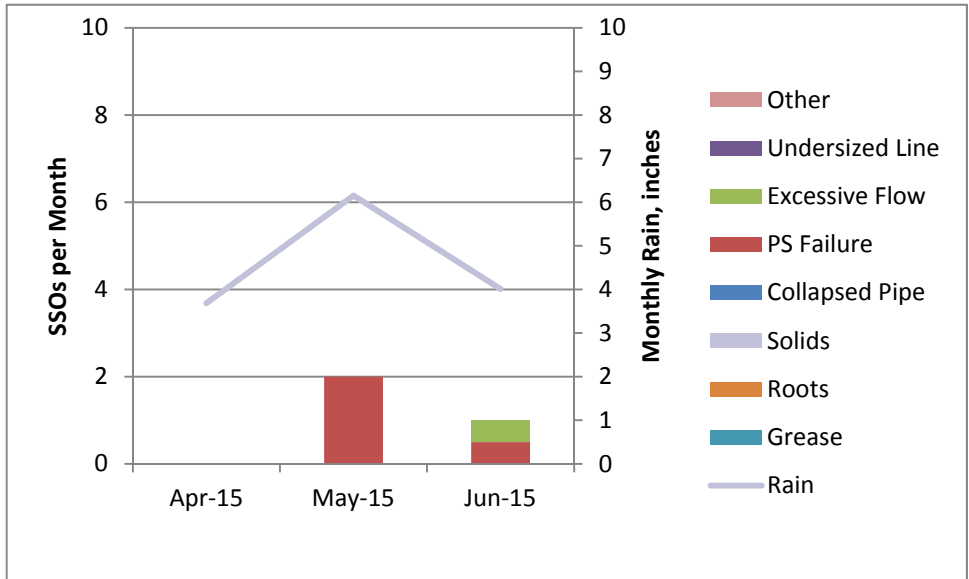
**Figure 7** logarithmically plots total volume of pump station SSOs for each month, along with monthly rainfall.

**Figure 8** shows total duration of pump station SSOs for each month, as well as rainfall.

**Table 2**  
**City of Jackson, Mississippi**  
**Quarterly Report No. 9 - April 2015 through June 2015**  
**Pump Station SSOs**

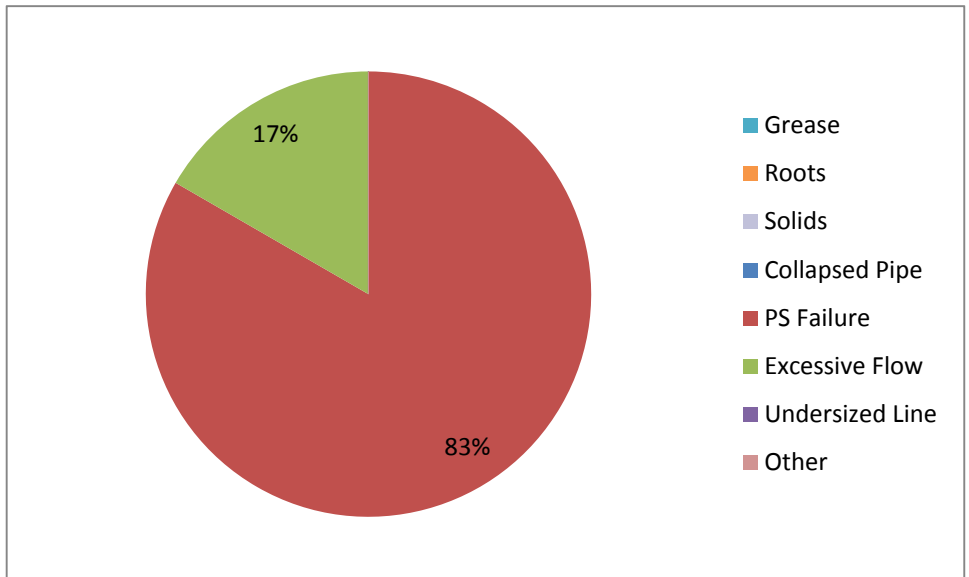
<b>Date Began</b>	<b>Time Began</b>	<b>Location</b>	<b>Source</b>	<b>Estimated Duration, Hours</b>	<b>Estimated Volume, Gallons</b>	<b>Receiving Water</b>	<b>Reported Cause</b>
5/24/2015	4:00 PM	1851 FOREST AVE	Pump Station	8.00	42,000	Eubanks	Pump Station Failure.
5/25/2015	12:00 AM	1851 FOREST AVE	Pump Station	1.50	8,000	Eubanks	Pump Station Failure.
6/30/2015	11:30 AM	4210 CHURCH CIR	Pump Station	0.25	1,000	Lynch	Pump Station Failure.

**Figure 5: Pump Station SSOs by Cause**

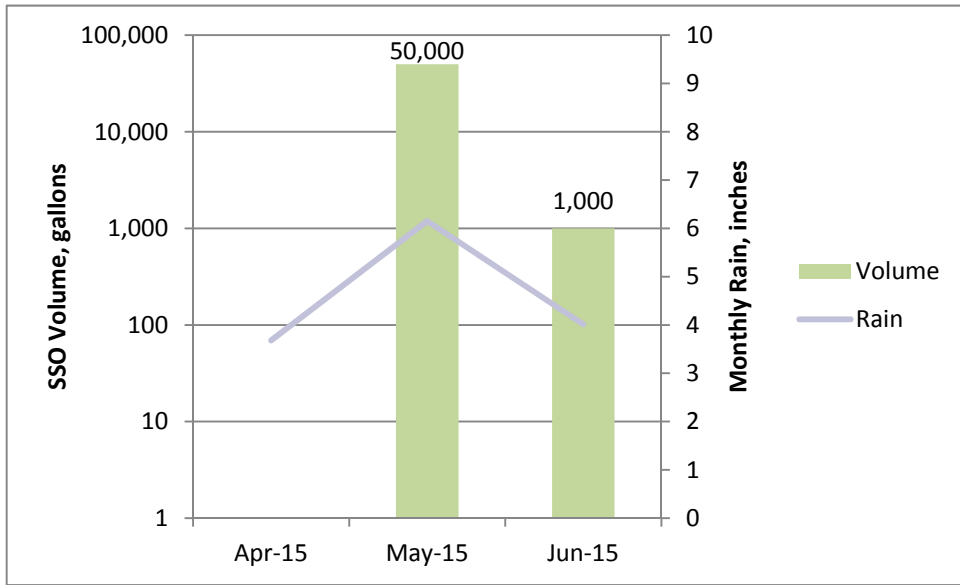


0.0	0.0	0.0	Other
0.0	0.0	0.0	Undersized Line
0.0	0.0	0.5	Excessive Flow
0.0	2.0	0.5	PS Failure
0.0	0.0	0.0	Collapsed Pipe
0.0	0.0	0.0	Solids
0.0	0.0	0.0	Roots
0.0	0.0	0.0	Grease
0.0	2.0	1.0	Total

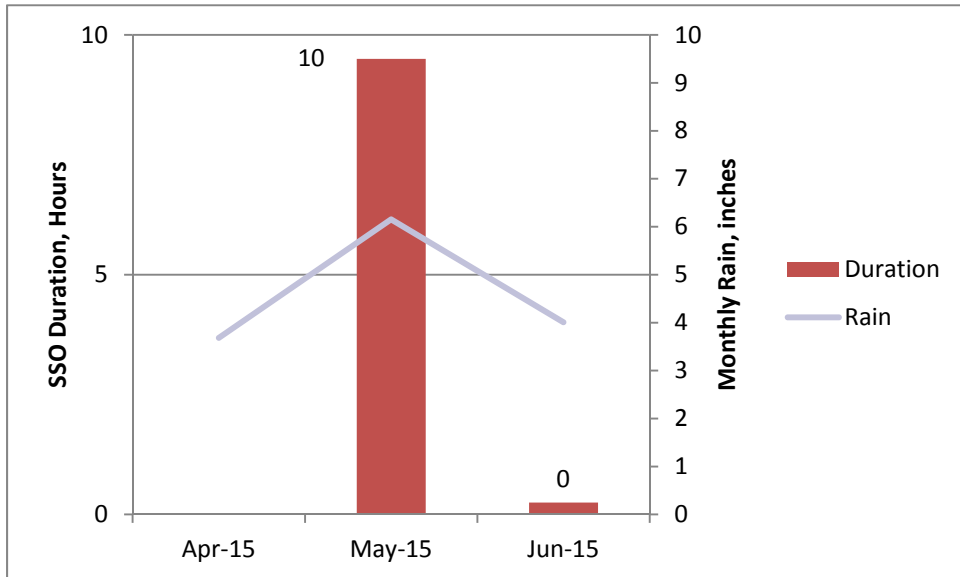
**Figure 6: Percentage of PS SSOs by Cause**



**Figure 7: Pump Station SSO Volume**



**Figure 8: Pump Station SSO Duration**





## 2.2 West Bank Interceptor SSOs

No SSOs were reported in the West Bank Interceptor from April to June 2015.

## 2.4 Prohibited Bypasses

**Table 3** lists prohibited bypasses at the wastewater treatment plants for the quarter. Unlike SSOs, each event is considered as one bypass from the day it begins to the day it ends. Only the Savanna Street plant had prohibited bypasses.

**Figure 9** shows prohibited bypass events by month by reported cause, as listed above, as well as monthly rainfall. **Figure 10** plots prohibited bypasses against average and monthly Pearl River stages. One bypass began on May 31 and ended on the June 2. This bypass is included in the month it ended, June.

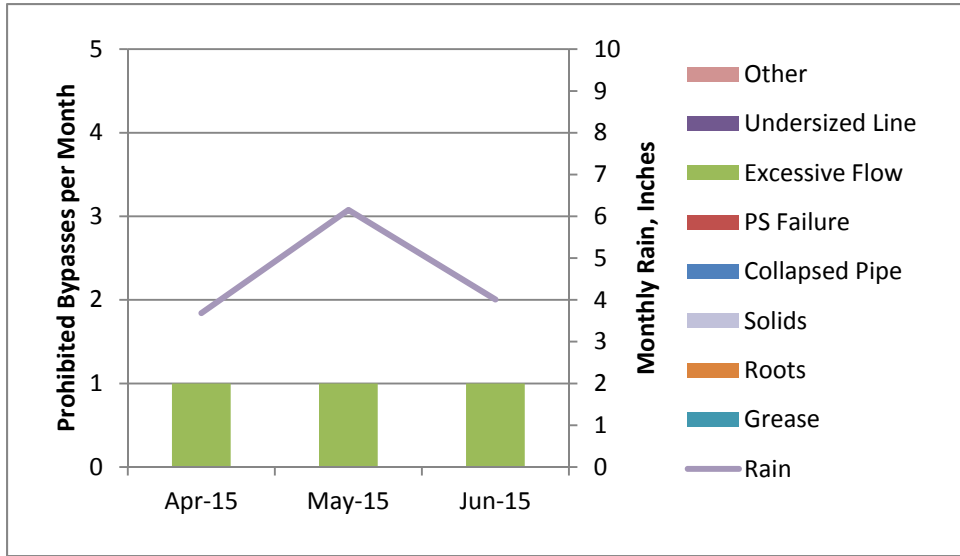
**Figure 11** shows total volume of prohibited bypasses for each month plotted logarithmically, along with monthly rainfall. **Figure 12** shows volume and river stages.

**Figures 13 and 14** plot total duration for the month. Note that duration of prohibited bypasses is plotted in days.

**Table 3**  
**City of Jackson, Mississippi**  
**Quarterly Report No. 9 - April 2015 through June 2015**  
**Prohibited Bypasses**

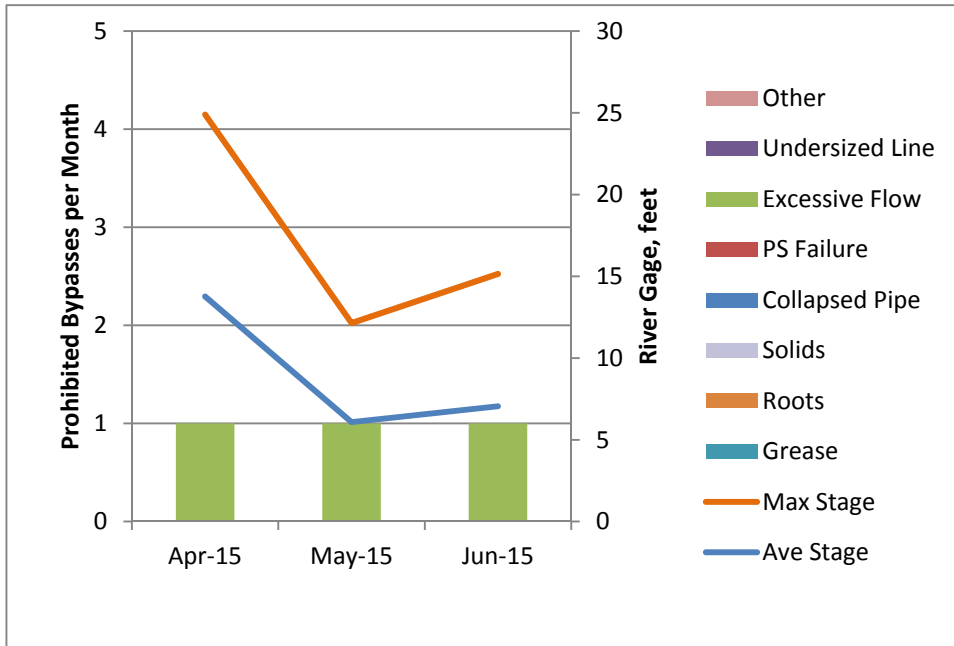
<b>Date Began</b>	<b>Time Began</b>	<b>Location</b>	<b>Source</b>	<b>Estimated Duration, Days</b>	<b>Estimated Volume, Million Gallons</b>	<b>Receiving Water</b>	<b>Reported Cause</b>
04/19/15	9:45 AM	Savanna St WWTP	WWTP	2	74.86	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.
05/25/15	7:29 AM	Savanna St WWTP	WWTP	4	193.64	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.
05/31/15	5:05 PM	Savanna St WWTP	WWTP	3	84.65	Pearl	Heavy rainfall generated influent flow in excess of mechanical plant's capacity.

**Figure 9: Prohibited Bypasses by Cause vs. Rainfall**

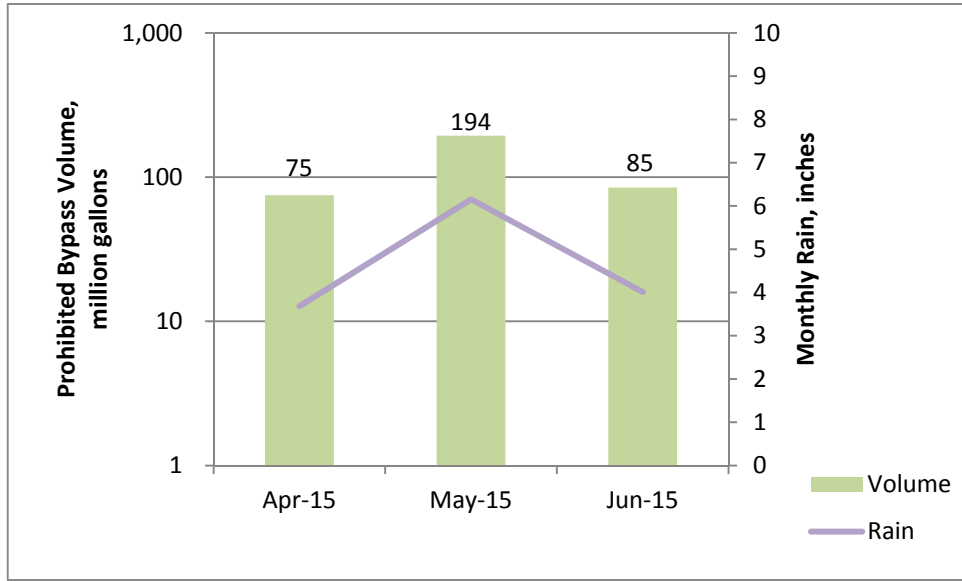


0	0	0	Other
0	0	0	Undersized Line
1	1	1	Excessive Flow
0	0	0	PS Failure
0	0	0	Collapsed Pipe
0	0	0	Solids
0	0	0	Roots
0	0	0	Grease
1	1	1	Total

**Figure 10: Prohibited Bypasses by Cause vs. River Stage**



**Figure 11: Prohibited Bypass Volume vs. Rainfall**



**Figure 12: Prohibited Bypass Volume vs. River Stage**

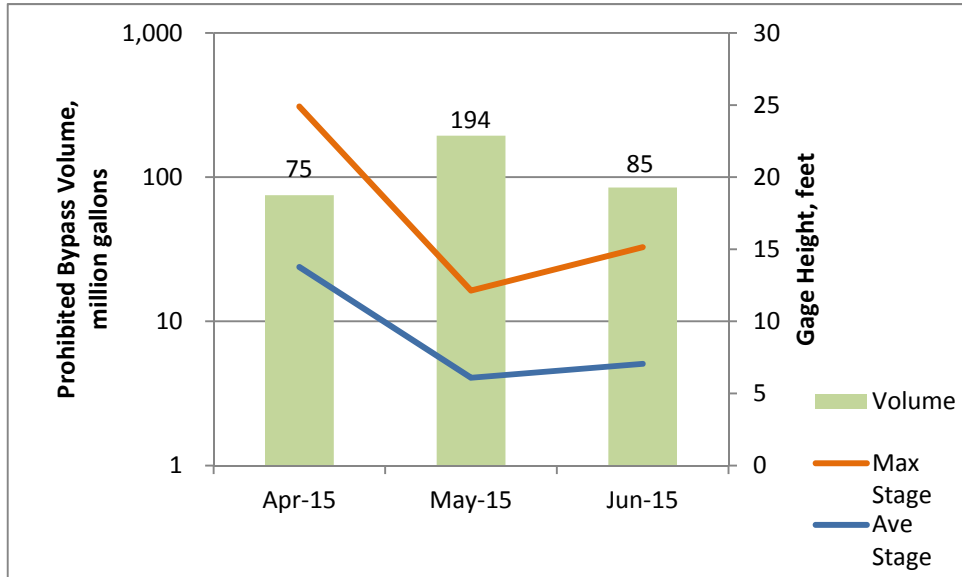


Figure 13: Prohibited Bypass Duration vs. Rainfall

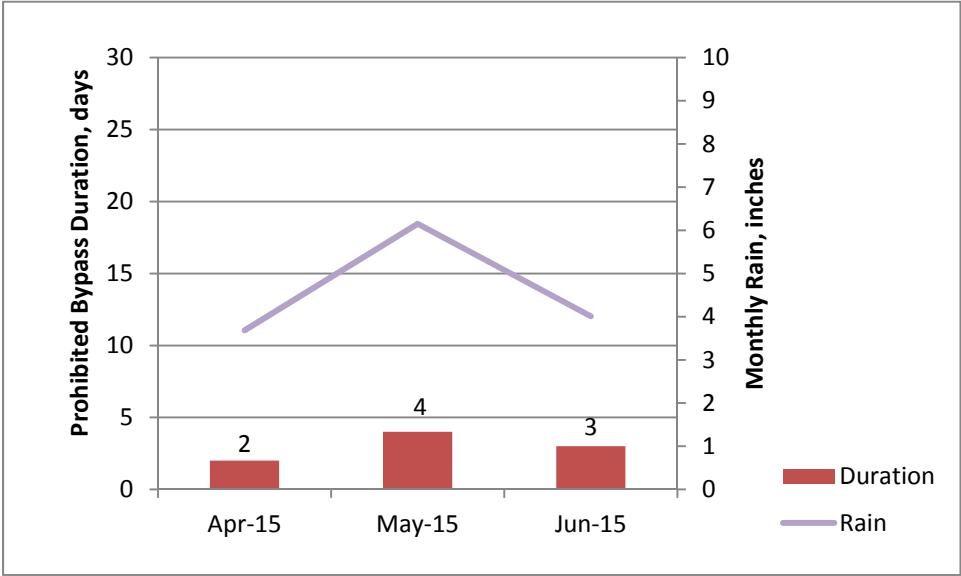
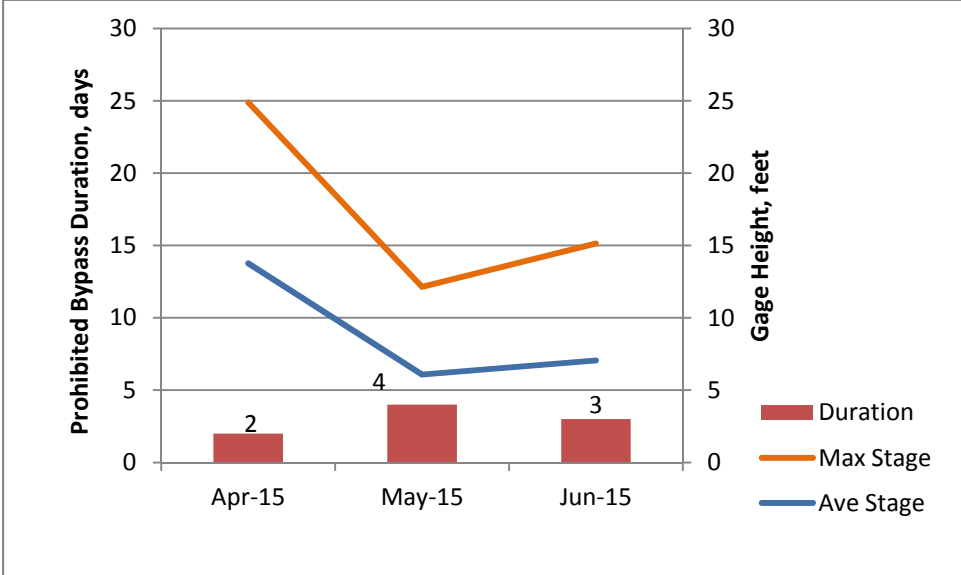


Figure 14: Prohibited Bypass Duration vs. River Stage



## 3.0 Training Coordinator

### 3.1 Progress Update

The City offered the position of Training Coordinator to a candidate who initially accepted with a start date of August 3. However, two weeks prior to that date the hire advised the City they had changed their mind and were not accepting the job.

### 3.2 Next steps

In light of the continued difficulties in hiring someone for this position, the City will re-evaluate the position salary and requirements within the next thirty days. After conducting the evaluation, the City will determine whether it is cost-effective and feasible to hire a training coordinator or, alternatively, assign those duties to a current employee with support from the Consent Decree Program Manager or contract with a third-party to provide the training coordination and training.

During the thirty-day re-evaluation and any subsequent transition period, the City will manage the training program through Mary Carter with support from the Consent Decree Program Manager.