



April 30, 2019

Chief, Environmental Enforcement Section
Environment and Natural 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 and Industrial Enforcement
U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303

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

Diane Schober
Office of Pollution Control
Environmental Compliance & Enforcement Div.
P.O. Box 2261
Jackson, MS 39225-2261

Re: City of Jackson, Mississippi - EPA Consent Decree
Quarterly Report No. 24

Dear Lady and Sirs:

On behalf of the City of Jackson, please find enclosed the Jackson Consent Decree Quarterly Report No. 24. Should you have any questions, please contact me.

Sincerely,

A handwritten signature in blue ink that reads "David Hauser".

David Hauser, P.E.
Program Manager

Enclosure

cc: Honorable Chokwe Antar Lumumba, Mayor, City of Jackson
Timothy C. Howard, City Attorney, City of Jackson
Robert Miller, Director of Public Works, City of Jackson
Terry Williamson, Legal Counsel, City of Jackson
Public Depository, Eudora Welty Public Library



The City of
JACKSON

**QUARTERLY
REPORT NO. 24**

JANUARY 2019 THROUGH MARCH 2019

Department of Public Works
Consent Decree Program

City of Jackson
Wastewater Infrastructure Redevelopment
Program

Quarterly Report No. 24
January 2019 through March 2019

April 30, 2019

Prepared for:

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

Prepared by:

Burns & McDonnell
308 E. Pearl St., Suite 104
Jackson, MS 39201

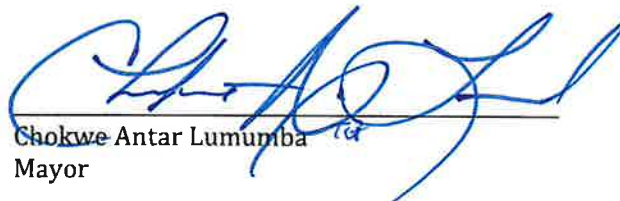
City of Jackson, Mississippi

Quarterly Report No. 24

January 2019 through March 2019

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.




Chokwe Antar Lumumba
Mayor

4-29-2019

Date



Robert K. Miller, Director
Department of Public Works

April 23, 2019

Date

Quarterly Report No. 24

January 2019 through March 2019

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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.

One of the ongoing requirements of the EPA Consent Decree is to submit periodic reports to demonstrate continuing compliance. The specific reporting requirements can be found in Section IX ¶ 57 of the Consent Decree. A copy of the Consent Decree, as well as previous reports, can be found on the City of Jackson website under the "Wastewater Consent Decree Public Documents" link in the Document Library.

1.2 Authority to Promulgate

Burns & McDonnell Engineering Company, Inc. was retained to assist the City in addressing the requirements of the Consent Decree under a Program Management contract. 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.

The listing and graphical summaries of the SSOs and prohibited bypasses for January 2019 – March 2019 are presented in Section 2 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 in Section 2.4 of this report.

2.1 Collection System SSOs

Table 1 lists SSOs in the collection system for January through March 2019. Each day of a multiple day event is considered as a separate SSO, in accordance with the Consent Decree.

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

Grease Roots Solids Collapsed Pipe PS Failure Excessive flow Other

Some SSO events had multiple causes. In these instances, each cause was assigned a fractional value, adding up to one (1) 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.

Figure 4 shows total duration of SSOs for each month.

Twenty (20) events occurred at eighteen (18) locations on private property reported this period. The cause of these events was determined to be problems on the private laterals and the crews notified owners. These events have been reported to MDEQ.

Twenty (20) events occurred at cleanouts on private property this period. All events were caused by problems in the City's sewer system and are included in this report.

There were thirty (30) events for which the duration was not determined because the cause, such as collapsed pipe, has not been resolved or no SSO was ongoing but there was evidence of a previous overflow. "Previous SSO Follow up" is an SSO for which the cause, i.e. collapsed pipe, excessive flow, etc., was not resolved at the time of the first report and a crew was following up to see if an SSO was occurring until a repair could be made. Once the cause has been resolved, the total durations can be determined and reported. Volumes reported for these events are determined from periodic follow up inspections until the cause has been resolved.

There were thirty-five (35) events for which a collapsed pipe was a contributing factor to the event and of these, fifteen (15) remain unresolved. There was one (1) SSOs for which the cause has remained undetermined and will be further investigated.

Table 1
City of Jackson, Mississippi
Quarterly Report No. 24 – January 2019 through March 2019
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
1/1/2019	8:30 AM	4264 Richmond Cir	Manhole	0.17	8	No	NA	0.00	Collapsed Pipe
1/1/2019	6:25 PM	639 Belvedere Dr	Manhole	1.95	60	Yes	Eubanks	0.00	Solids
1/2/2019	3:57 PM	1823 Corley Ave	Manhole	22.27	3,180	Yes	Town	0.00	Grease / Collapsed Pipe
1/4/2019	10:30 AM	3625 Cavalier Dr	Manhole	Prev. SSO Follow up	2,900	Yes	Eubanks	0.04	Excessive Flow
1/4/2019	7:18 PM	4053 Pinehill Dr	Cleanout	Ongoing Unresolved	4,480	Yes	Eubanks	0.04	Collapsed Pipe
1/7/2019	3:30 PM	345 Saint Andrews Dr	Manhole	215.93	Not Reported	Yes	Purple	0.00	Excessive Flow
1/11/2019	8:15 PM	Leila Drive / Southerland Dr	Other	1.45	50	Yes	Eubanks	0.00	Collapsed Pipe
1/11/2019	10:00 AM	6125 Brown St	Manhole	0.33	300	Yes	Hanging Moss	0.00	Grease / Solids
1/11/2019	10:45 AM	785 Northside Dr	Manhole	0.10	300	Yes	Eubanks	0.00	Grease / Solids
1/12/2019	1:30 PM	1309 E Northside Dr	Cleanout	Ongoing Unresolved	18,000	No	NA	0.69	Grease / Solids / Collapsed Pipe
1/14/2019	2:00 PM	803 E Monument St	Manhole	0.50	150	No	NA	0.00	Solids
1/14/2019	11:02 AM	Cavalier Dr	Manhole	120.00	3,000	Yes	Eubanks	0.47	Excessive Flow
1/15/2019	2:30 PM	1701 Casteel Dr	Manhole	0.25	100	Yes	Lynch	0.00	Grease / Solids
1/15/2019	9:30 AM	1514 Belle Glade St	Cleanout	0.82	100	No	NA	0.00	Grease / Solids / Collapsed Pipe
1/17/2019	7:46 PM	1295 Palmyra St	Manhole	Ongoing Unresolved	193,200	Yes	Town	0.00	Collapsed Pipe
1/18/2019	2:00 PM	Belvedere Dr / Freemont St	Manhole	1.00	300	Yes	Hardy	0.00	Grease / Solids
1/18/2019	10:48 PM	2981 Mcdowell Road	Manhole	15.60	240	Yes	Cany	0.00	Grease
1/18/2019	1:20 PM	1117 Cooper Road	Manhole	0.42	600	No	NA	0.00	Grease / Solids / Collapsed Pipe
1/19/2019	4:45 PM	2960 Lakewood Dr	Manhole	0.25	300	Yes	Cany	0.96	Solids / Excessive Flow
1/19/2019	9:05 AM	Springfield Cir / Colebrook Dr	Manhole	Ongoing Unresolved	Not Reported	Yes	Lynch	0.00	Excessive Flow

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 24 – January 2019 through March 2019
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
1/22/2019	1:12 PM	1087 I 20 Frontage Rd	Ground Surface (defective pipe underground)	Ongoing Unresolved	10,000	No	NA	0.00	Roots / Solids / Collapsed Pipe
1/22/2019	9:05 AM	104 Woodrow Wilson Ave	Manhole	0.50	100	No	NA	0.00	Grease / Solids / Collapsed Pipe
1/23/2019	2:00 PM	Blair St / Fairbanks St	Manhole	Prev. SSO Follow up	750	Yes	Town	0.49	Excessive Flow
1/23/2019	4:26 PM	905 Belhaven St	Manhole	8.40	480	Yes	Belhaven	0.49	Solids
1/23/2019	9:15 AM	3630 Northside Dr	Manhole	Prev. SSO Follow up	Prev SSO	Yes	Bogue Chitto	0.00	Grease
1/24/2019	9:06 AM	5406 I 55 Frontage Rd	Manhole	2.53	3,980	Yes	Hanging Moss	0.00	Solids
1/28/2019	10:09 PM	334 Manship St	Manhole	Ongoing Unresolved	Not Reported	Yes	Town	0.13	Excessive Flow
1/28/2019	4:19 PM	Suncrest Dr / Longwood Dr	Manhole	Prev. SSO Follow up	Prev SSO	Yes	Cany	0.14	Other
1/30/2019	4:55 PM	1309 Northside Dr	Cleanout	Ongoing Unresolved	800	Yes	Eastover	0.00	Collapsed Pipe
1/30/2019	1:50 PM	402 Wesley Ave	Manhole	0.58	250	Yes	Town	0.00	Solids
1/31/2019	10:21 AM	3611 N State St	Manhole	Ongoing Unresolved	75	Yes	Eubanks	0.00	Collapsed Pipe
2/1/2019	2:40 PM	3826 Redbud Rd	Cleanout	0.08	25	Yes	Eastover	0.00	Collapsed Pipe
2/2/2019	10:37 AM	1701 Casteel Dr	Manhole	1.68	740	Yes	Lynch	0.00	Collapsed Pipe
2/2/2019	5:28 PM	108 Bendwood Ct	Manhole	0.95	200	Yes	Big Creek	0.00	Solids
2/2/2019	6:40 PM	Suncrest Dr / Longwood Dr	Manhole	0.17	150	Yes	Cany	0.00	Grease / Solids
2/5/2019	9:54 AM	2103 Powers Ave	Manhole	4.37	1,000	Yes	Town	0.00	Roots / Solids
2/6/2019	9:30 AM	2575 McDowell Cir	Cleanout	0.92	4,600	No	NA	0.01	Collapsed Pipe
2/6/2019	8:00 AM	1514 Belleglade	Cleanout	8.00	1,000	Yes	Eastover	0.00	Collapsed Pipe
2/7/2019	11:45 AM	1295 Palmyra St	Manhole	0.25		Yes	Town	0.00	Collapsed Pipe

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 24 – January 2019 through March 2019
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
2/7/2019	11:05 AM	1115 Palmyra St	Ground Surface (defective pipe underground)	Ongoing Unresolved	4,400	Yes	Town	0.00	Collapsed Pipe
2/8/2019	1:50 PM	5397 I 55 Frontage Road	Ground Surface (defective pipe underground)	1.02	1,800	Yes	Hanging Moss	0.00	Collapsed Pipe
2/10/2019	1:30 PM	2017 Lamar St	Cleanout	0.42	200	No	NA	0.00	Solids
2/10/2019	11:35 AM	223 E Bell St	Manhole	1.08	125	No	NA	0.00	Solids
2/11/2019	11:20 AM	235 Claiborne Ave	Cleanout	Ongoing Unresolved	5,400	Yes	Lynch	0.02	Collapsed Pipe
2/12/2019	9:05 AM	2359 Oakhurst Dr	Manhole	26.42	925	No	NA	0.00	Grease / Solids
2/14/2019	9:15 AM	2535 Prosperity St	Cleanout	2.00	100	No	NA	0.00	Grease / Solids
2/14/2019	2:30 PM	2103 Powers Ave	Manhole	Ongoing Unresolved	2,400	No	NA	0.00	Grease / Solids
2/16/2019	8:00 AM	4615 I 55 Frontage Rd	Cleanout	6.22	8,640	No	NA	0.00	Solids
2/17/2019	5:10 PM	Mill St / Woodrow Wilson Ave	Manhole	2.83	Previous SSO	No	NA	0.43	Grease / Solids
2/18/2019	9:45 AM	St Charles St / Columbia Ave	Manhole	0.33	130	No	NA	0.02	Solids
2/19/2019	9:45 AM	375 Lake Shore Road	Manhole	1.00	200	No	NA	0.51	Grease / Solids
2/19/2019	10:50 AM	418 Lake Shore Road	Manhole	0.25	200	No	NA	0.51	Grease / Solids
2/19/2019	1:45 PM	Colebrook Ave / Springfield Cir	Manhole	Ongoing Unresolved	2,500	Yes	Lynch	0.38	Excessive Flow
2/20/2019	5:54 PM	Arlington St / Peachtree St	Manhole	0.15	100	No	NA	0.97	Grease / Collapsed Pipe
2/20/2019	7:00 PM	215 Culley Dr	Manhole	0.50	100	No	NA	0.99	Grease / Roots
2/21/2019	5:05 PM	2814 Booker Washington St	Manhole	Ongoing Unresolved	800	No	NA	0.00	Grease / Roots / Solids
2/21/2019	7:35 PM	2359 Oakhurst Dr	Manhole	Ongoing Unresolved	800	No	NA	0.12	Grease / Collapsed Pipe

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 24 – January 2019 through March 2019
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
2/21/2019	11:10 AM	St Charles St / Columbia Ave	Manhole	0.83	100	No	NA	0.04	Grease / Solids
2/25/2019	7:30 PM	2907 Kingswood Avenue	Cleanout	Ongoing Unresolved	400	No	NA	0.00	Grease / Solids
2/26/2019	6:00 PM	Chastain Dr / E Northside Dr	Manhole	Ongoing Unresolved	300	No	NA	0.00	Grease / Solids
2/26/2019	10:50 AM	2103 Powers Ave	Manhole	Ongoing Unresolved	400	No	NA	0.00	Grease / Solids
2/28/2019	12:30 PM	1645 Truman St	Ground Surface (defective pipe underground)	Ongoing Unresolved	100	Yes	Bakers	0.14	Collapsed Pipe
2/28/2019	10:50 AM	Chastain Dr / E Northside Dr	Manhole	Ongoing Unresolved	200	Yes	Eubanks	0.10	Grease / Solids
2/28/2019	10:30 AM	2103 Powers Ave	Manhole	Ongoing Unresolved	200	Yes	Town	0.00	Roots
2/28/2019	10:00 AM	1645 Truman St	Manhole	337.50	3,750	Yes	Bakers	0.05	Solids
3/1/2019	2:25 PM	315 John St	Ground Surface (defective pipe underground)	0.00	Previous Overflow	Yes	Town	0.00	Collapsed Pipe
3/1/2019	6:50 PM	2204 Dogwood Hinds	Manhole	1.25	100	No	NA	0.15	Grease / Solids
3/2/2019	8:40 AM	5505 Old Canton Rd	Manhole	0.92	100	No	NA	0.01	Grease / Solids
3/2/2019	9:40 AM	4045 Pine Hill Drive	Manhole	Ongoing Unresolved	3,000	No	NA	0.02	Collapsed Pipe
3/5/2019	3:11 PM	726 Eagle Ave	Other	Ongoing Unresolved	810	No	NA	0.00	Collapsed Pipe
3/6/2019	9:33 PM	2625 Belvedere Dr	Manhole	Ongoing Unresolved	7,800	No	NA	0.00	Grease / Roots / Collapsed Pipe
3/6/2019	11:26 AM	591 Houston Ave	Manhole	24.02	10,640	Yes	Lynch	0.00	Grease
3/7/2019	8:25 PM	131 Glenstone Cir	Manhole	1.00	100	No	NA	0.00	Grease / Solids
3/7/2019	3:50 PM	2224 Eastover Dr	Manhole	0.83	420	Yes	Eastover	0.00	Grease

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 24 – January 2019 through March 2019
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
3/7/2019	9:15 AM	326 Queen Julianna Lane	Cleanout	1.00	230	Yes	Hardy	0.00	Grease
3/8/2019	6:35 PM	2256 N Mill St	Manhole	NR	2,400	No	NA	0.00	Grease / Solids
3/9/2019	12:00 PM	N Mill St / Woodrow Wilson St	Manhole	1.67	400	Yes	Town	0.00	Collapsed Pipe
3/9/2019	4:00 PM	5119 Reddoch Dr	Other	2.58	100	No	NA	0.00	Grease / Solids
3/11/2019	11:35 PM	Savanna Ave / Eddy St	Manhole	Ongoing Unresolved	3,150	Yes	Cany	1.68	Excessive Flow
3/11/2019	12:10 PM	Cavalier Dr	Manhole	Prev. SSO Follow up	4,200	Yes	Eubanks	1.60	Excessive Flow
3/11/2019	11:50 AM	Springfield Cir / Colebrook Ave	Manhole	12.08	300	Yes	Lynch	0.00	Excessive Flow
3/11/2019	4:08 PM	2376 Paden St	Manhole	Ongoing Unresolved	3,150	Yes	Three Mile	1.68	Excessive Flow
3/11/2019	3:25 PM	Lamar St / Ash St	Manhole	Ongoing Unresolved	3,150	Yes	Town	1.60	Excessive Flow
3/12/2019	8:00 AM	5397 IN Frontage Road	Ground Surface (defective pipe underground)	5.63	14,400	Yes	Hanging Moss	0.00	Collapsed Pipe
3/13/2019	1:05 PM	1701 Casteel Dr	Manhole	Ongoing Unresolved	2,850	No	NA	0.00	Grease / Solids
3/14/2019	8:20 AM	4052 Pinehill Dr	Cleanout	Ongoing Unresolved	900	Yes	Eubanks	0.02	Collapsed Pipe
3/14/2019	4:50 PM	Aztec Dr / Chippewa Cir	Manhole	1.37	10	Yes	Eubanks	0.02	Grease
3/14/2019	7:50 PM	223 Chippewa Cir	Other	16.67	325	Yes	Eastover	0.02	Grease
3/18/2019	6:55 PM	1701 Casteel Dr	Manhole	Ongoing Unresolved	4,200	No	NA	0.00	Collapsed Pipe
3/18/2019	9:30 AM	2103 Powers Ave	Manhole	0.08	Previous Overflow	No	NA	0.00	Roots / Solids
3/18/2019	10:56 PM	2369 Wild Valley Dr	Cleanout	12.75	120	No	NA	0.00	Grease

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 24 – January 2019 through March 2019
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
3/21/2019	5:20 PM	Forest Ave / Watkins Dr	Manhole	2.17	200	Yes	Hanging Moss	0.00	Grease / Solids
3/22/2019	5:20 PM	Forest Ave / Watkins Dr	Manhole	1.92	300	Yes	Eubanks	0.00	Grease / Solids
3/22/2019	12:00 PM	E Northside Dr / Churchill Dr	Cleanout	0.42	75	Yes	Eubanks	0.00	Collapsed Pipe
3/23/2019	12:55 PM	131 Glenstone Cir	Manhole	0.83	100	No	NA	0.00	Grease / Solids
3/23/2019	7:05 PM	158 Taylor St	Cleanout	0.33	100	No	NA	0.00	Grease / Solids
3/23/2019	9:10 AM	2981 W Mcdowell Road	Manhole	3.33	2,160	Yes	Cany	0.00	Grease
3/23/2019	2:00 PM	1904 Wingfield Cir	Cleanout	0.33	50	No	NA	0.00	Grease / Solids
3/24/2019	1:40 PM	Forest Ave / Watkins Dr	Manhole	0.75	50	No	NA	0.00	Grease / Solids
3/25/2019	2:35 PM	2813 Brookwood Dr	Cleanout	19.55	1,340	No	NA	0.63	Grease / Solids
3/26/2019	9:52 AM	141 Queen Anne Lane	Manhole	Ongoing Unresolved	6,840	No	NA	0.00	Undetermined
3/27/2019	5:50 PM	1112 Cooper Road	Manhole	1.17	300	No	NA	0.00	Grease / Solids
3/27/2019	12:35 PM	158 Taylor St	Cleanout	0.67	5	No	NA	0.00	Grease / Solids
3/27/2019	2:00 PM	2525 Latimer Ave	Ground Surface (defective pipe underground)	21.00	225	Yes	Lynch	0.00	Collapsed Pipe
3/28/2019	11:00 AM	1112 Cooper Road	Ground Surface (defective pipe underground)	1.42	300	Yes	Cany	0.00	Collapsed Pipe
3/28/2019	1:55 PM	2204 Dogwood Hinds	Manhole	0.58	100	No	NA	0.00	Grease / Solids
3/28/2019	9:00 AM	Forest Ave / Watkins Dr	Manhole	0.92	300	Yes	Eubanks	0.00	Grease / Solids
3/28/2019	12:57 PM	142 Summer St	Ground Surface (defective pipe underground)	1.05	200	Yes	Town	0.00	Collapsed Pipe

Figure 1: Collection System SSOs by Cause

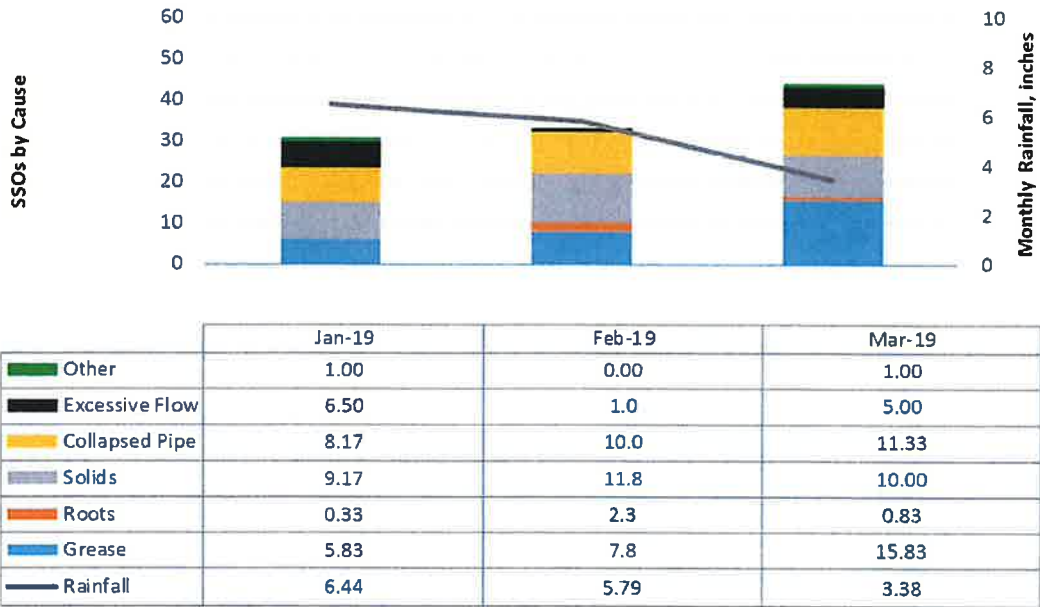


Figure 2: Percentage of Collection System SSOs by Cause

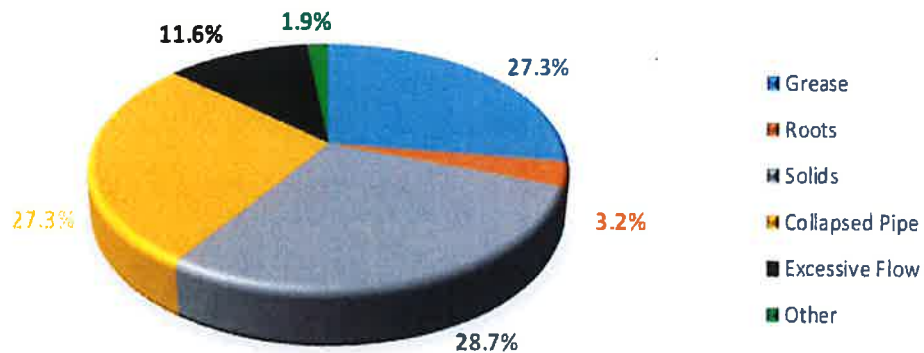


Figure 3: Collection System SSO Volume

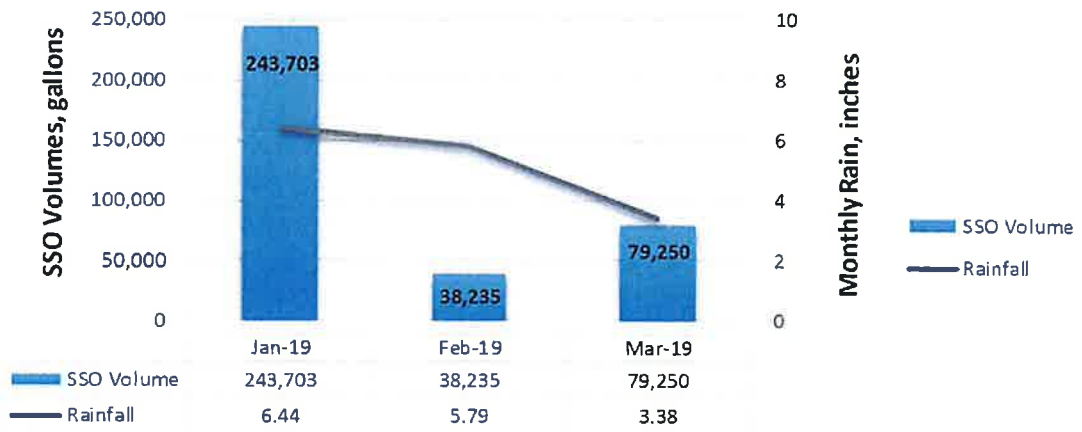
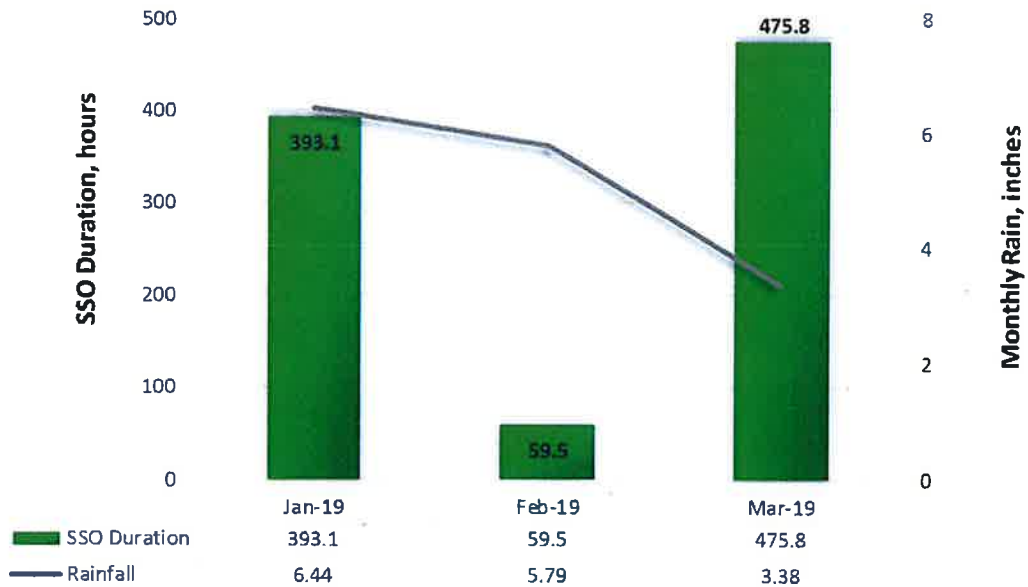


Figure 4: Collection System SSO Duration



2.2 Pump Station SSOs

Table 2 lists pump station SSOs for January through March 2019

Figure 5 shows pump station SSO events by month by reported cause, as listed in Table 2, as well as monthly rainfall.

Figure 6 shows percentage of SSOs by cause for the quarter.

Figure 7 shows total volume of pump station SSOs for each month, as well as monthly rainfall.

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

There was one (1) SSO event this reporting period. It was located at LS-26 Greenwing Court. It was caused by a bad float switch and water damage to the CNS uplink box. These issues have been repaired.

Table 2
City of Jackson, Mississippi
Quarterly Report No. 24 – January 2019 through March 2019
Pump Station SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
NO PUMP STATION SSOS REPORTED - January 2019									
NO PUMP STATION SSOS REPORTED - February 2019									
3/29/2018	10:30 AM	10 Greenwing Ct.(LS-26)	Pump Station	0.58	30	Yes	Purple	0.00	Bad float switch and water damage to the CNS uplink box

Figure 5: Pump Station SSOs by Cause

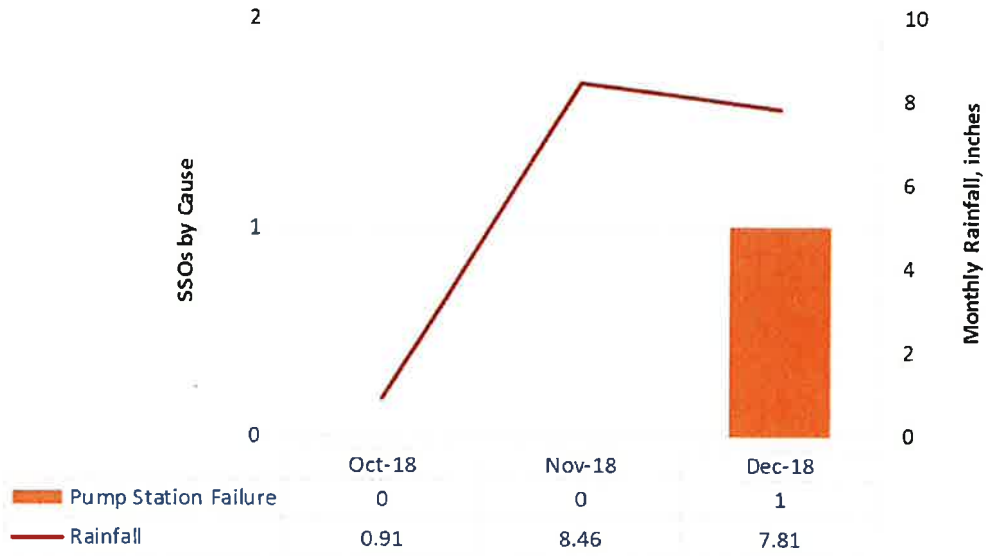


Figure 6: Percentage of Pump Station SSOs by Cause



Figure 7: Pump Station SSO Volume

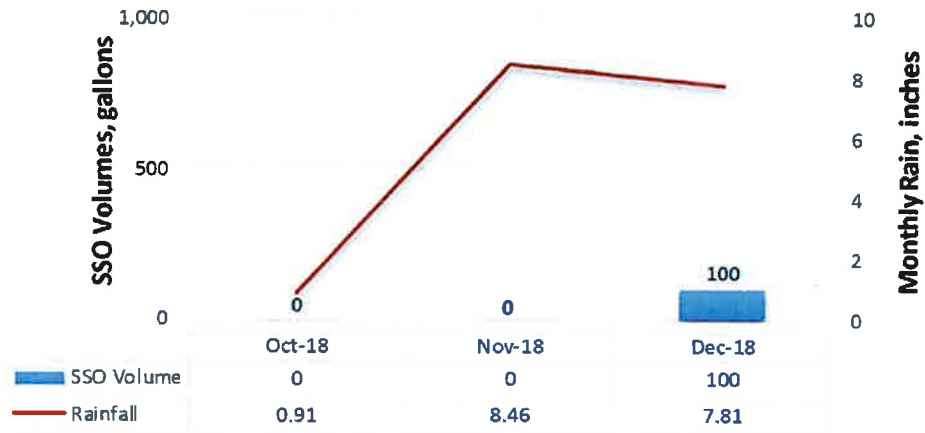
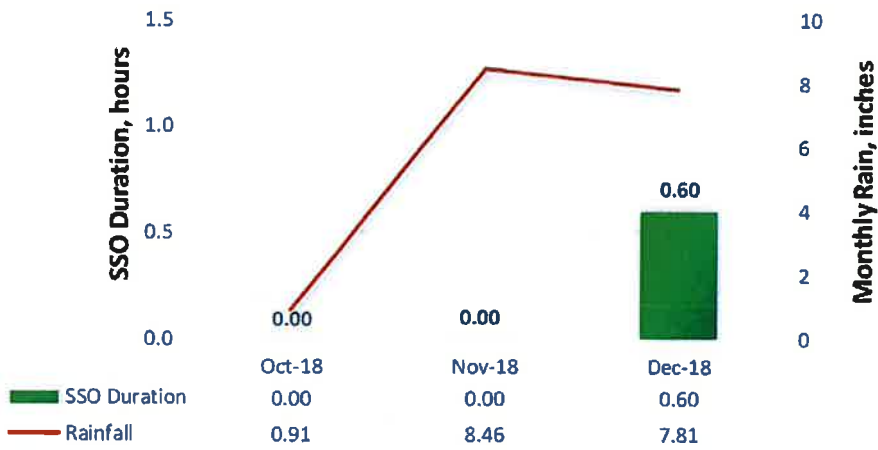


Figure 8: Pump Station SSO Duration



2.3 West Bank Interceptor SSOs

West Bank Interceptor SSOs at the Jefferson St location are generally caused when flow to the Savanna WWTP exceeds the facility's pumping capacity. This creates the need to restrict influent flow to the facility in order to protect the facility from flooding and catastrophic damage. Insufficient pumping capacity can be caused by equipment failures at the facility, excessive flow caused by rain events, high river levels or a combination of all the above.

Table 3 lists pump station SSOs for January through March 2018.

Figure 9 shows West Bank Interceptor SSO events by month by reported cause, as listed in Table 2, as well as monthly rainfall.

Figure 10 shows percentage of West Bank Interceptor SSOs by cause for the quarter.

Figure 11 shows total volume of West Bank Interceptor SSOs for each month, as well as monthly rainfall.

Figure 12 shows total duration of West Bank Interceptor SSOs for each month, as well as rainfall.

There were four (4) SSO events on the West Bank Interceptor this reporting period. All events were caused by equipment failure of the 100 million gallon per day Influent Pump #4, failure of temporary pump(s) and excessive flow due to rainfall and high river levels.

Table 3
City of Jackson, Mississippi
Quarterly Report No. 24 – January 2019 through March 2019
West Bank Interceptor SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
1/2/2019	3:00 PM	408 S Jefferson St	Manhole	208.00	20,800,000	Yes	Pearl	2.20	Excessive flow and #4 Raw Sewage pump out of service and #9 rental pump out of service
1/12/2019	1:00 PM	408 S Jefferson St	Manhole	19.50	1,900,000	Yes	Pearl	0.56	Excessive flow and #4 Raw Sewage pump out of service and #9 rental pump out of service
2/20/2019	10:24 AM	408 S Jefferson St	Manhole	3.02	300,000	Yes	Pearl	0.44	Excessive flow and Inability to operate #4 Raw Sewage pump at full capacity
3/11/2019	1:59 PM	408 S Jefferson St	Manhole	3.52	350,000	Yes	Pearl	1.80	Excessive flow and Inability to operate #4 Raw Sewage pump at full capacity

Figure 9: West Bank Interceptor SSOs by Cause

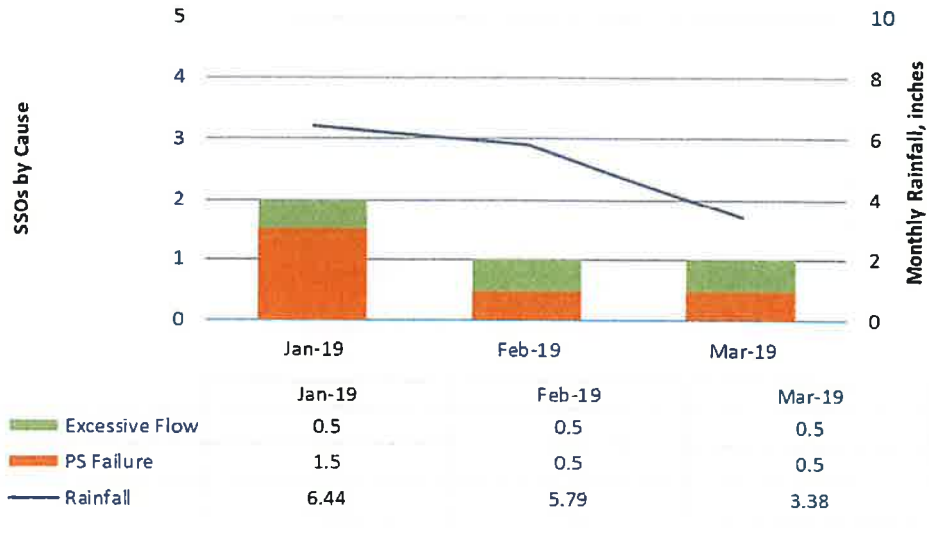


Figure 10: Percentage of West Bank Interceptor SSOs by Cause

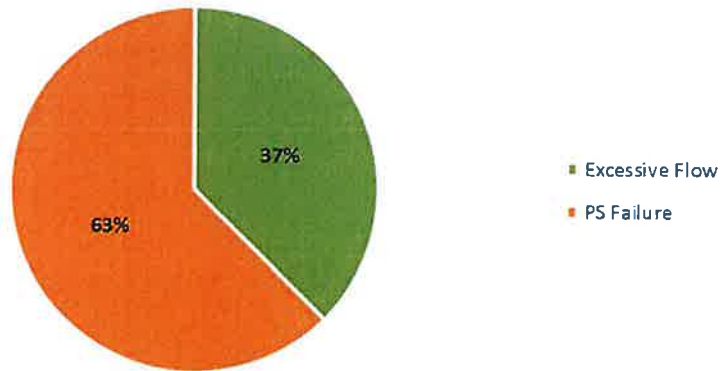


Figure 11: West Bank Interceptor SSO Volume

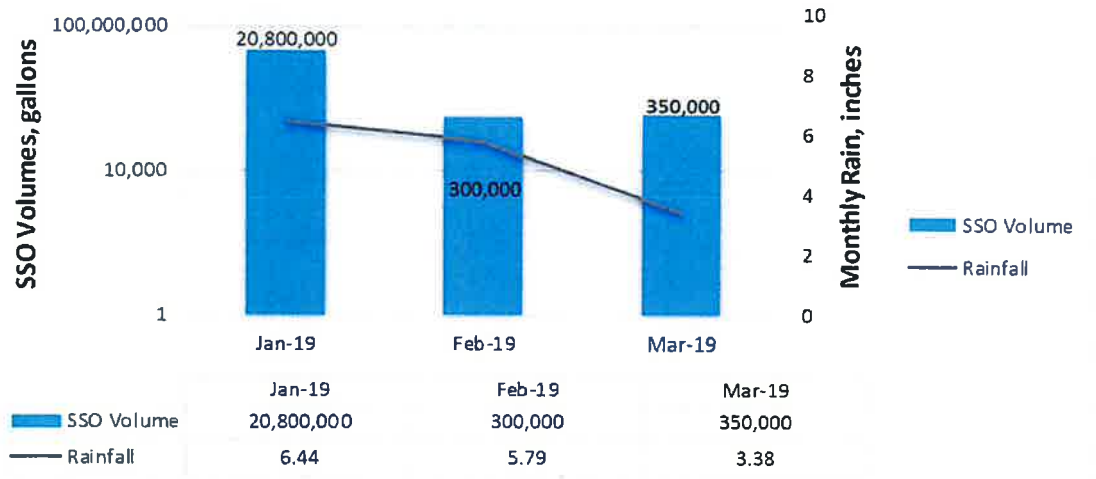
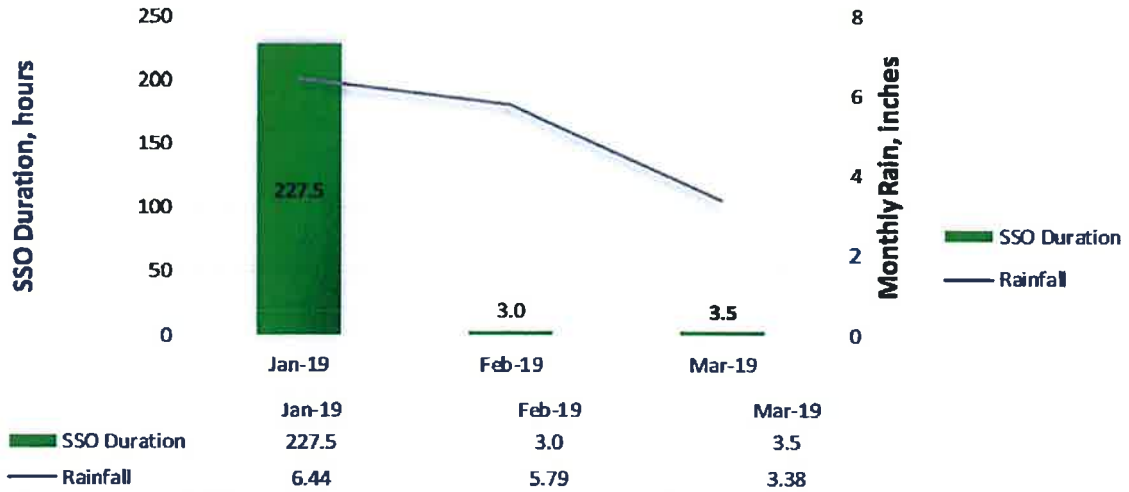


Figure 12: West Bank Interceptor SSO Duration



2.4 Prohibited Bypasses

This quarterly report does not include a graphical representation of the number of bypasses for each cause, since most bypasses at the Savanna Street WWTP are caused by excessive flow or specific causes explained below.

Table 4 lists prohibited bypasses at the wastewater treatment plant for the quarter. Unlike SSOs, each event is considered as one bypass from the day it begins to the day it ends. The event is reported in the month the bypass ends.

Figure 13 shows total volume of prohibited bypasses for each month plotted logarithmically, along with monthly rainfall.

Figure 14 shows volume and river stages.

Figures 15 and 16 plot total duration for the month, first compared to rainfall and then compared to river stages. River stages are shown as monthly average daily maximum river stage and as the monthly maximum day river stage. These appear to indicate the inflow into the system and subsequent excessive flows to the treatment facility is influenced by the river stage more than the local rainfall events. Note that duration of prohibited bypasses is plotted in days.

December 9, 2018 Event - The level in Storm Diversion Cell #3 was below 4.0 feet before December 8th rain event in which we received 2.32 inches of rain and the river stage went from 9.0 ft. to 18.7 ft. on December 09, 2018. The operators started the 13 temporary rental pumps to begin diverting the flow to the Storm Diversion Cells on December 8th and the bypass subsequently began at 10:26 a.m. on December 09, 2018.

There was a total of 15.61 inches of rain during the reporting period which is 5.69% above normal and total flow at the Savanna WWTP was 5,913.8 million gallons which is 11.0% higher than the same period last year. The total volume bypassed through March 31, 2018 for this event is 2,471.40 million gallons. Bypassing from the Storm Diversion Cells was ongoing at the end of the reporting period and is expected to continue until weather and operational issues are resolved.

All bypassed volume is chlorinated, de-chlorinated and required samples taken prior to blending with the mechanical plant effluent and subsequently discharged to the Pearl River.

Table 4
City of Jackson, Mississippi
Quarterly Report No. 24 – January 2019 through March 2019
Prohibited Bypasses

Date Began	Time Began	Location	Source	Estimated Duration, Days	Estimated Volume, Million Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
12/09/18	10:26 AM	3810 I 55 S	WWTP	Ongoing	2,471.40	YES	Pearl	2.32	Excessive flow. Rainfall total for the month of December was 8.03" with a total of 7.92" from December 7 – December 31.

The December 9, 2018 event is on-going through the end of the quarterly reporting period. The volume shown for this event is the total through March 31, 2019. The duration of this event through March 31, 2019 is 113 days.

Figure 13: Prohibited Bypass Volume vs. Rainfall

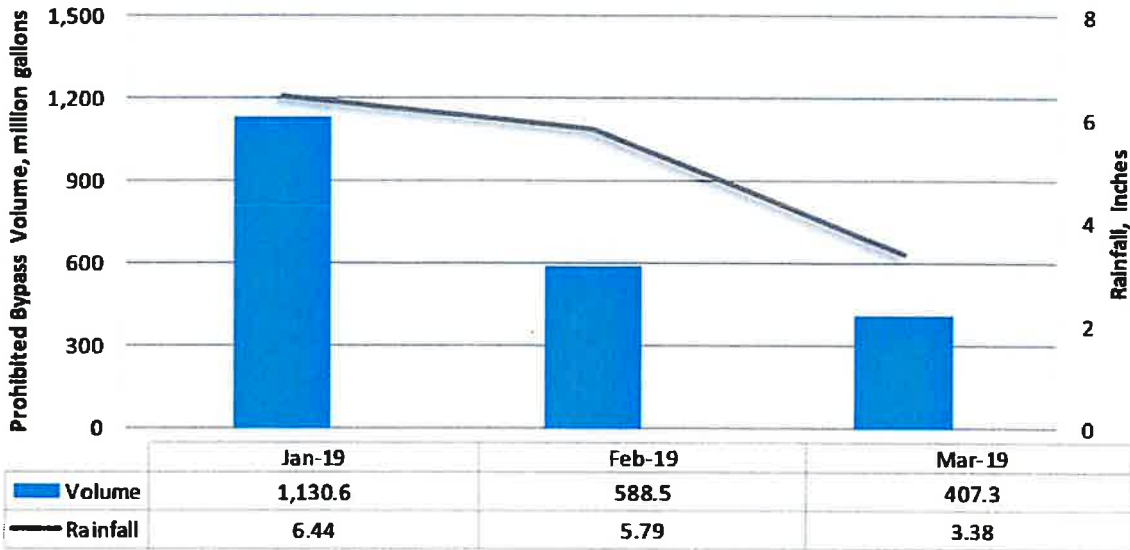
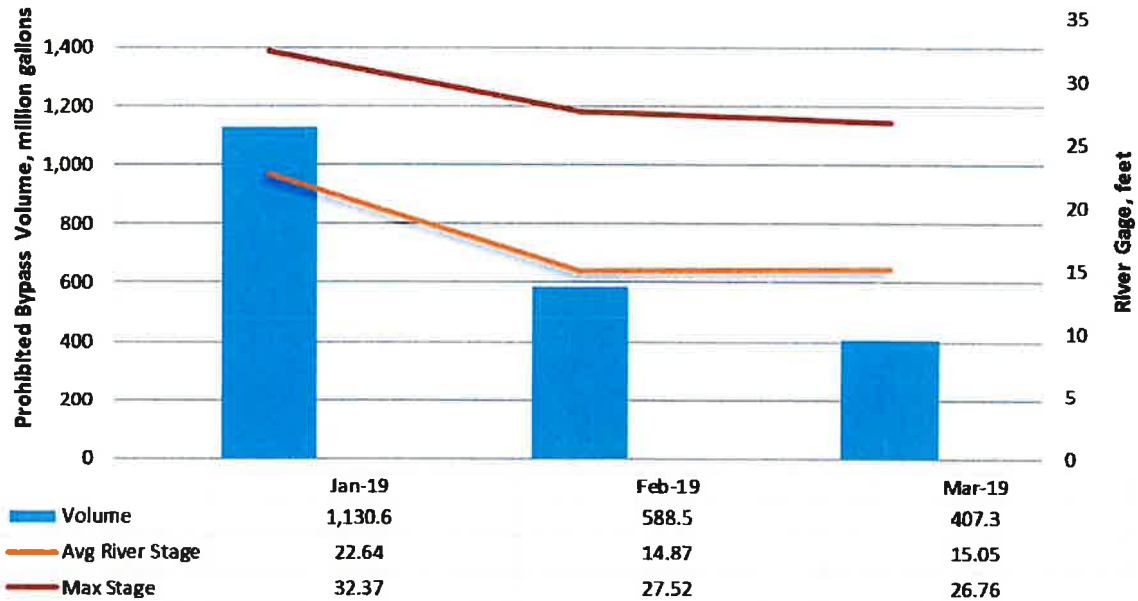


Figure 14: Prohibited Bypass Volume vs. River Stage



*Monthly volumes reported are for the for the December 9, 2018 ongoing event. This event was on-going at the end of the current reporting period.

Figure 15: Prohibited Bypasses Duration vs. Rainfall

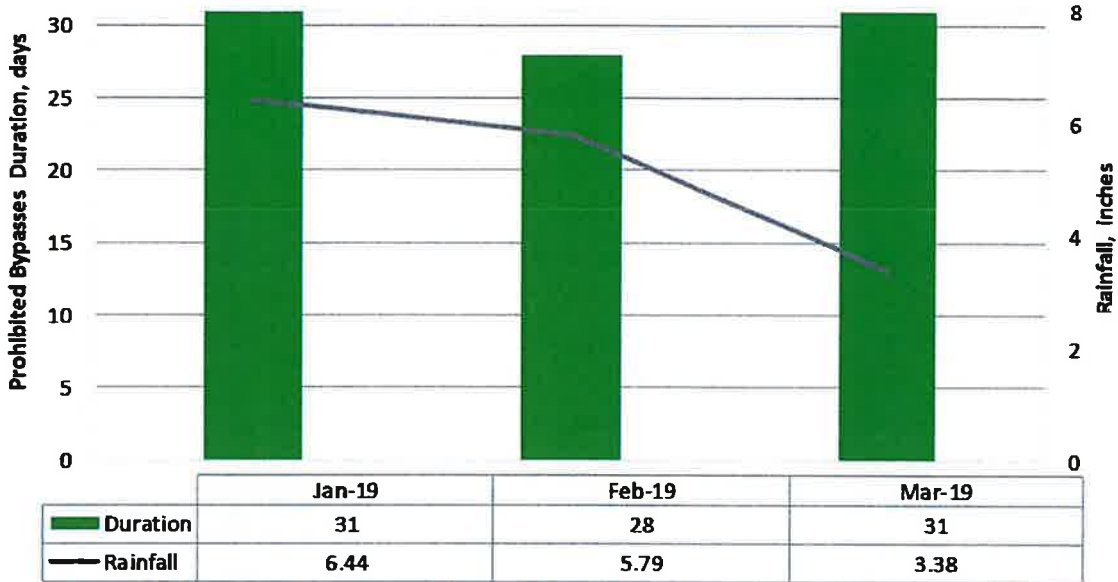
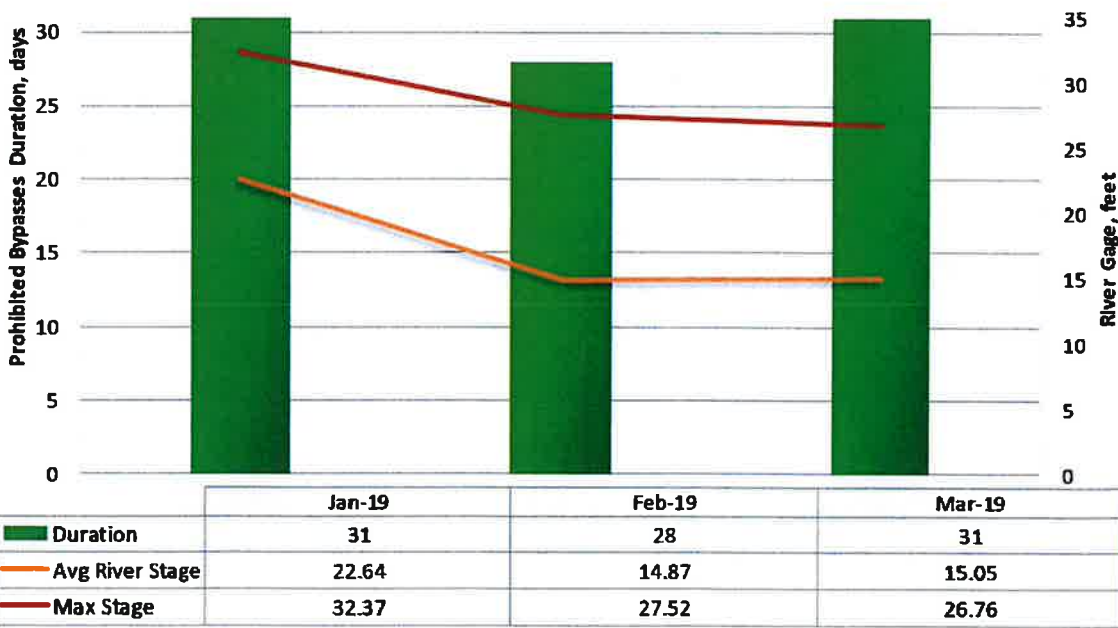


Figure 16: Prohibited Bypasses Duration vs. River Stage



*Monthly durations reported are for the for the December 9, 2018 ongoing event. This event was ongoing at the end of the current reporting period.