



April 30, 2020

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. 28

Dear Lady and Sirs:

On behalf of the City of Jackson, please find enclosed the Jackson Consent Decree Quarterly Report # 28. Should you have any questions, please contact me.

Sincerely,

*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. 28**

JANUARY 2020 THROUGH MARCH 2020

Department of Public Works  
Consent Decree Program

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

**Quarterly Report No. 28**  
**January 2020 through March 2020**

April 30, 2020

**Prepared for:**

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

**Prepared by:**

**Burns & McDonnell**  
9400 Ward Parkway  
Kansas City, MO 64114


# City of Jackson, Mississippi

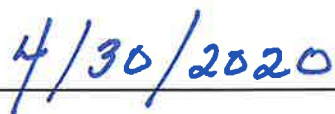
## Quarterly Report No. 28

### January 2020 through March 2020


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 Tcd  
Mayor

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Robert K. Miller, Director  
Department of Public Works

  
\_\_\_\_\_  
Date

# Quarterly Report No. 28

## January 2020 through March 2020

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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, <http://www.jacksonms.gov/>, under the Public Works Department "Waste Water Consent Decree" link in the Document Library. The website can also be accessed directly at <http://www.cojcd.org/>.

### **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 2020 – March 2020 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 2020. 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.

Three (3) events occurred at three (3) 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.

Eighteen (18) 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 twenty-one (21) 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 two (2) events for which the cause was undetermined and will be further investigated. There was one (1) event that was caused by contractor damage. These are shown as "Other" in the graphs.

There were five (5) reports that the volume was not reported. Proper reporting will be covered in future training sessions.

**Table 1**  
**City of Jackson, Mississippi**  
**Quarterly Report No. 28 – January 2020 through March 2020**  
**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
10/31/2019	9:05 AM	3249 Medgar Evers Blvd	Manhole	2,134.00	14,025	No	NA	0.05	Grease / Solids
1/1/2020	10:30 AM	3871 Warner Ave	Cleanout	24.92	75	No	NA	0.00	Grease / Solids
1/1/2020	2:20 PM	4251 Sagamore St	Manhole	0.75	75	No	NA	0.00	Grease / Solids
1/30/2020	1:40 PM	Northgate Blvd / Somerset Dr	Manhole	2.00	100	No	NA	0.00	Grease / Solids
1/28/2020	10:50 AM	2012 Alta Woods Blvd	Manhole	1.42	100	No	NA	0.05	Grease / Solids
1/3/2020	8:57 AM	216 Ferguson Dr	Cleanout	Ongoing Unresolved	Not Reported	Yes	Three Mile	0.40	Collapsed Pipe
1/17/2020	10:05 AM	Watkins Dr / Forest Ave	Manhole	Ongoing Unresolved	1,500	No	NA	0.00	Grease / Solids
1/17/2020	8:37 AM	4905 Watkins Dr	Manhole	Ongoing Unresolved	375	Yes	Eubanks	0.00	Grease / Solids
1/4/2020	12:33 PM	275 Marla Ave	Cleanout	Ongoing Unresolved	11,200	No	NA	0.00	Roots
1/11/2020	5:30 PM	3557 Bowers St	Manhole	Ongoing Unresolved	525	Yes	Hanging Moss	2.05	Excessive Flow
1/8/2020	2:15 PM	275 Marla Ave	Cleanout	1.50	50	No	NA	0.00	Grease / Solids
1/7/2020	2:23 PM	5140 Queen Eleanor Lane	Manhole	506.62	Not Reported	Yes	Lynch	0.00	Grease / Roots / Solids
1/28/2020	8:00 AM	3680 Lakeland Lane	Manhole	0.92	75	No	NA	0.04	Grease / Solids
1/16/2020	12:19 PM	6546 Franklin D Roosevelt Dr	Manhole	7.68	25	Yes	Bogue Chitto	0.64	Excessive Flow
1/10/2020	11:52 AM	167 Briarwood Dr	Manhole	0.63	15	No	NA	0.41	Grease
1/9/2020	9:00 AM	223 Chippewa Cir	Cleanout	2.58	75	No	NA	0.00	Grease / Solids
1/11/2020	1:11 PM	5356 Abraham Lincoln Dr	Manhole	1.82	25	Yes	Bogue Chitto	2.28	Excessive Flow
1/11/2020	9:41 AM	3630 W Northside Dr	Manhole	7.82	25	Yes	Hanging Moss	2.28	Excessive Flow



**Table 1 cont.**  
**City of Jackson, Mississippi**  
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**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
1/11/2020	9:47 AM	503 Springfield Cir	Manhole	7.22	50	Yes	Lynch	2.28	Excessive Flow
1/11/2020	1:32 AM	4125 Crane Blvd	Manhole	17.47	25	Yes	Eubanks	1.97	Excessive Flow
1/11/2020	11:38 AM	3775 Kings Hwy	Manhole	0.20	25	Yes	Eubanks	1.97	Excessive Flow
1/11/2020	11:47 AM	Lamar Lane / Millsaps Ave	Manhole	8.22	25	Yes	Tow n	1.97	Excessive Flow
1/11/2020	11:49 AM	210 Fairbanks St	Manhole	2.85	25	Yes	Tow n	1.97	Excessive Flow
1/11/2020	12:43 PM	2346 Paden St	Manhole	3.78	25	Yes	Three Mile	2.05	Excessive Flow
1/11/2020	12:45 PM	2376 Paden St	Manhole	3.75	25	Yes	Three Mile	2.05	Excessive Flow
1/11/2020	1:09 PM	3751 Warner Ave	Manhole	Ongoing Unresolved	Not Reported	Yes	Tow n	2.28	Excessive Flow
1/11/2020	12:50 PM	3884 Lost Lake Cove S	Manhole	7.00	25	Yes	Trahon	2.05	Excessive Flow
1/11/2020	1:54 PM	5345 Ridgewood Road	Manhole	4.60	25	Yes	Hanging Moss	1.95	Excessive Flow
1/16/2020	10:47 AM	6435 Lyndon B Johnson Dr	Manhole	10.22	25	Yes	Bogue Chitto	0.64	Excessive Flow
1/12/2020	3:21 PM	1417 Cox St	Cleanout	24.40	75	Yes	Lynch	0.00	Collapsed Pipe
1/17/2020	8:20 AM	811 Forest Ave	Manhole	1.58	100	No	NA	0.00	Not Reported
1/16/2020	10:25 AM	1915 Corley Ave	Ground Surface (defective pipe underground)	Not Reported	400	Yes	Tow n	0.64	Excessive Flow
1/16/2020	12:42 PM	4141 Crane Blvd	Manhole	6.30	25	Yes	Eubanks	0.64	Excessive Flow
1/18/2020	11:00 AM	3606 Cavalier Dr	Manhole	11.00	25	Yes	Eubanks	0.89	Excessive Flow
1/25/2020	1:25 PM	1123 Kentwood Place	Manhole	1.75	100	No	NA	0.00	Grease / Solids
1/28/2020	10:00 AM	2026 Alta Woods Blvd	Manhole	2.25	100	No	NA	0.05	Grease / Solids

**Table 1 cont.**  
**City of Jackson, Mississippi**  
**Quarterly Report No. 28 – January 2020 through March 2020**  
**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
1/25/2020	1:25 PM	1117 Kentwood Place	Manhole	1.75	100	No	NA	0.00	Grease / Solids
1/31/2020	8:12 AM	955 Park Lane	Manhole	3.13	50	No	NA	0.02	Grease / Solids
1/29/2020	1:05 PM	835 Manhattan Road	Manhole	1.00	50	No	NA	0.23	Grease / Solids
1/30/2020	8:30 AM	862 E Amite St	Manhole	0.75	50	No	NA	0.00	Collapsed Pipe / Grease / Solids
2/1/2020	4:09 PM	1860 Shamrock Dr	Manhole	7.35	700	Yes	Three Mile	0.00	Collapsed Pipe
1/15/2020	6:05 PM	2312 Timber Crossing Road	Manhole	406.75	9,000	Yes	Cany	0.00	Grease / Solids
2/6/2020	2:19 PM	Raymond Road / Scanlon Dr	Manhole	46.93	600	Yes	Hardy	0.52	Collapsed Pipe / Grease / Solids
2/7/2020	10:10 PM	1171 Alta Vista Blvd	Manhole	0.25	50	No	NA	0.00	Grease / Solids
2/7/2020	12:30 PM	248 Englewood St	Cleanout	358.33	3,200	Yes	Town	0.00	Grease
2/7/2020	4:00 PM	2007 Carver St	Cleanout	Ongoing Unresolved	1,150	No	NA	0.00	Collapsed Pipe / Grease / Solids
12/11/2019	2:33 PM	944 Morningside St	Manhole	1917.87	32,400	Yes	Town	0.00	Grease
2/13/2020	11:32 AM	265 Colebrook Ave	Manhole	Previous SSO Follow up	425	No	NA	0.21	Excessive Flow
2/13/2020	12:09 PM	3606 Cavalier Dr	Manhole	Previous SSO Follow up	425	Yes	Eubanks	0.21	Excessive Flow / Grease / Solids
2/13/2020	11:18 AM	1204 C N Jefferson St	Ground Surface (defective pipe underground)	Not Reported	Not Reported	No	NA	0.21	Grease
2/13/2020	12:40 PM	4905 Watkins Dr	Manhole	Previous SSO Follow up	850	No	NA	0.21	Grease / Solids
2/14/2020	1:27 PM	1441 Wooddell Dr	Manhole	Previous SSO Follow up	400	No	NA	0.00	Solids
2/14/2020	12:35 PM	714 Adkins Blvd	Manhole	Previous SSO Follow up	800	No	NA	0.00	Grease / Solids
2/15/2020	12:02 PM	3634 Meadow Lane	Cleanout	145.38	1,050	Yes	Cany	0.00	Collapsed Pipe

**Table 1 cont.**  
**City of Jackson, Mississippi**  
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**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
2/17/2020	12:16 PM	Gunda St / Reaves St	Manhole	98.48	1,850	Yes	Hardy	0.00	Grease / Solids
2/18/2020	9:35 AM	4201 Oakmont Dr	Manhole	Ongoing Unresolved	550	No	NA	0.06	Grease / Solids
2/18/2020	2:20 PM	200 Rebel Woods Drive	Manhole	Ongoing Unresolved	600	No	NA	0.18	Grease / Solids
2/18/2020	11:00 AM	162 E Amite St	Manhole	57.50	150	No	NA	0.06	Collapsed Pipe
2/20/2020	3:50 PM	3554 Sunset Dr	Manhole	Ongoing Unresolved	1,000	No	NA	2.40	Grease / Solids
2/20/2020	8:45 PM	202 E Ridgeway St	Manhole	1.67	50	No	NA	2.12	Grease / Solids
2/20/2020	10:35 PM	290 Iris Ave	Manhole	1.17	50	No	NA	2.40	Grease
2/20/2020	5:58 PM	3745 Warner Ave	Manhole	1.28	300	Yes	Town	2.40	Collapsed Pipe
2/20/2020	7:00 PM	162 E Amite St	Manhole	1.83	50	No	NA	2.10	Grease / Solids
2/21/2020	10:40 AM	3747 Warner Ave	Manhole	1.00	100	No	NA	0.00	Grease / Solids
2/22/2020	1:20 PM	727 Deer Park St	Cleanout	0.67	50	No	NA	0.00	Collapsed Pipe / Grease / Solids
2/22/2020	2:47 PM	245 Manship St	Manhole	1.22	25	No	NA	0.00	Solids
2/25/2020	10:25 AM	137 Horseshoe Cir	Manhole	1.25	50	No	NA	0.00	Grease / Solids
2/26/2020	8:00 AM	5136 Reddoch Dr	Manhole	Ongoing Unresolved	800	Yes	Hanging Moss	0.11	Collapsed Pipe
2/26/2020	11:10 AM	714 Adkins Blvd	Manhole	Ongoing Unresolved	400	No	NA	0.11	Collapsed Pipe / Grease / Solids
2/27/2020	12:55 PM	1227 E Fortification St	Cleanout	0.83	50	No	NA	0.00	Grease / Solids
2/27/2020	1:05 AM	5943 Westmore Dr	Manhole	11.42	50	No	NA	0.00	Grease / Solids
2/27/2020	10:00 AM	823 Rutherford Dr	Cleanout	1.00	50	No	NA	0.00	Grease / Solids

**Table 1 cont.**  
**City of Jackson, Mississippi**  
**Quarterly Report No. 28 – January 2020 through March 2020**  
**Collection System SSOs**

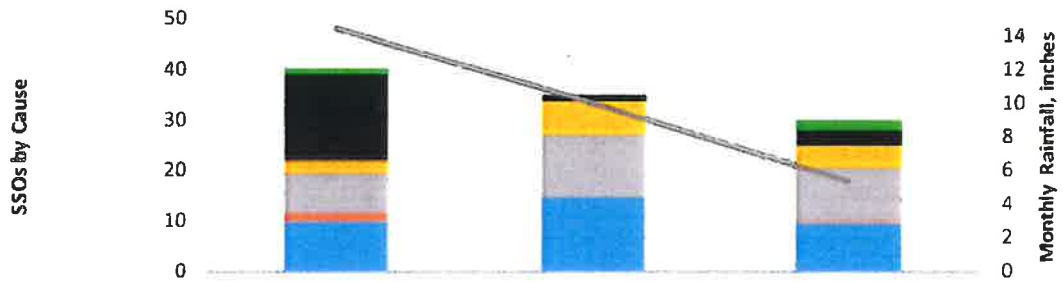
Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
2/28/2020	11:15 AM	4209 Oakmont Dr	Manhole	3.42	50	No	NA	0.00	Grease / Solids
2/27/2020	6:45 PM	2669 Greenway Ct	Manhole	Ongoing Unresolved	50	No	NA	0.00	Collapsed Pipe / Grease / Solids
2/29/2020	7:50 PM	2981 McDowell Road	Manhole	0.92	50	No	NA	0.00	Grease / Solids
12/20/2019	7:54 AM	252 McDowell Park Cir	Manhole	1875.10	Not Reported	Yes	Cany	0.00	Grease / Solids
1/6/2020	6:37 PM	3357 Bowers St	Cleanout	1936.07	41,000	Yes	Cany	0.00	Collapsed Pipe / Roots
3/1/2020	7:45 PM	4209 Oakmont Dr	Manhole	137.75	2,800	Yes	Lynch	0.00	Collapsed Pipe / Grease / Solids
3/2/2020	9:56 AM	2655 Belvedere Dr	Manhole	2.33	25	No	NA	0.05	Solids
3/5/2020	9:00 PM	525 Briarcliff Cir	Manhole	Ongoing Unresolved	1,350	No	NA	0.25	Grease / Solids
3/5/2020	11:16 AM	2805 Booker Washington St	Manhole	Not Reported	675	No	NA	0.36	Excessive Flow
3/5/2020	10:54 AM	6494 Lyndon B Johnson Dr	Manhole	Not Reported	675	No	NA	0.36	Excessive Flow
3/5/2020	10:45 AM	503 Colebrook Ave	Manhole	Not Reported	675	No	NA	0.36	Excessive Flow
3/5/2020	8:58 AM	756 Lawrence Rd	Manhole	14.78	1,400	No	NA	0.46	Grease / Solids
3/6/2020	9:30 PM	250 Brae Burn	Manhole	Ongoing Unresolved	1,300	No	NA	0.00	Grease / Solids
3/10/2020	10:40 PM	3460 Jayne Ave	Manhole	1.08	50	No	NA	0.33	Grease / Solids
3/18/2020	5:00 PM	3150 Woodside Dr	Manhole	4.00	50	No	NA	0.00	Grease / Solids
3/18/2020	9:00 PM	Woodside Dr / Smallwood St	Manhole	0.00	50	No	NA	0.00	Grease / Solids
3/19/2020	12:15 PM	909 N Jefferson St	Ground Surface (defective pipe underground)	2.42	175	No	NA	0.00	Grease / Solids
3/19/2020	3:15 PM	972 High St	Manhole	0.98	100	No	NA	0.00	Grease

**Table 1 cont.**  
**City of Jackson, Mississippi**  
**Quarterly Report No. 28 – January 2020 through March 2020**  
**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
3/20/2020	11:46 AM	1005 Briarwood Dr	Other	2.23	50	No	NA	0.99	Collapsed Pipe
3/20/2020	9:40 PM	1441 Wooddell Dr	Manhole	Ongoing Unresolved	900	No	NA	0.56	Collapsed Pipe / Grease / Solids
3/23/2020	11:32 AM	4617 Hillside Dr	Manhole	Ongoing Unresolved	Inc. in 3/23 close-out report	No	NA	0.01	Unknown
3/23/2020	5:15 PM	3003 Downing St	Cleanout	Ongoing Unresolved	350	Yes	Town	No Data	Grease / Solids
3/23/2020	11:48 AM	Hillside Dr / Hanging Moss Rd	Ground Surface (defective pipe underground)	24.82	285	No	NA	0.01	Contractor Damage
2/7/2020	12:44 PM	2233 E Northside Dr	Manhole	1102.68	14,100	No	NA	0.03	Grease / Solids
3/24/2020	7:25 PM	3003 Downing St	Cleanout	3.08	50	No	NA	No Data	Grease / Solids
3/24/2020	5:05 PM	1631 N Blair St	Cleanout	0.67	50	No	NA	No Data	Grease / Solids
3/24/2020	5:55 PM	533 Glendale St	Ground Surface (defective pipe underground)	Ongoing Unresolved	400	No	NA	0.03	Collapsed Pipe
3/25/2020	7:35 PM	155 Frontage Rd	Manhole	2.58	50	No	NA	0.00	Grease / Solids
3/26/2020	10:00 PM	4675 Clinton Blvd	Manhole	1.33	50	No	NA	0.00	Grease / Solids
3/26/2020	12:57 PM	2007 N Lamar St	Ground Surface (defective pipe underground)	Ongoing Unresolved	150	No	NA	No Data	Solids
3/27/2020	9:00 PM	220 McDowell Park Cir	Cleanout	2.42	50	No	NA	0.00	Grease / Solids
3/30/2020	4:20 PM	172 McDowell Park Cir	Manhole	25.00	50	No	NA	0.19	Grease / Solids
3/31/2020	6:30 PM	3003 Downing St	Cleanout	Ongoing Unresolved	50	No	NA	No Data	Collapsed Pipe

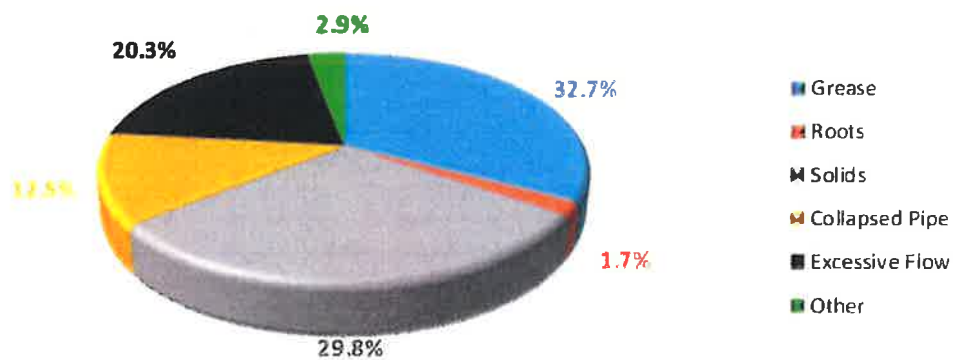


**Figure 1: Collection System SSOs by Cause**

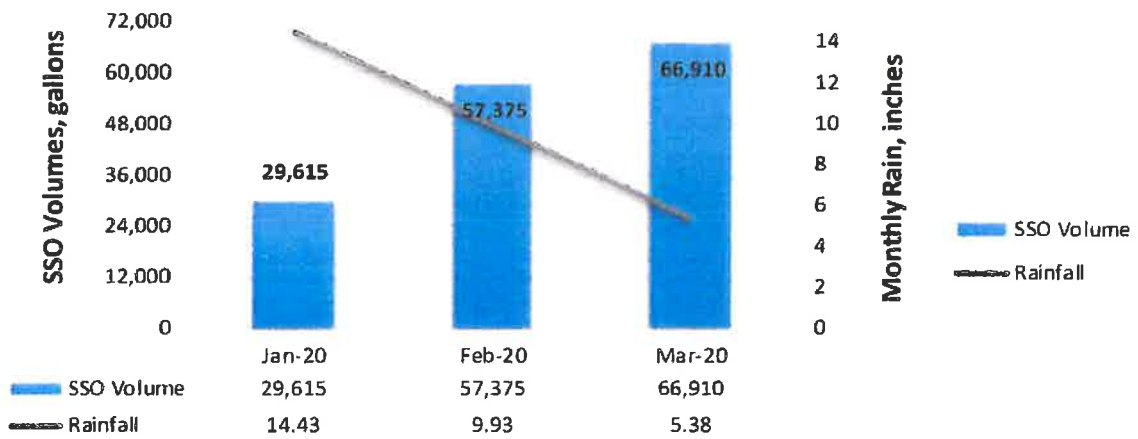


	Jan-20	Feb-20	Mar-20
Other	1.00	0.00	2.0
Excessive Flow	17.00	1.33	3
Collapsed Pipe	2.33	6.67	4.17
Solids	8.18	12.50	10.66
Roots	1.33	0.00	0.5
Grease	10.16	14.50	9.67
Rainfall	14.43	9.93	5.38

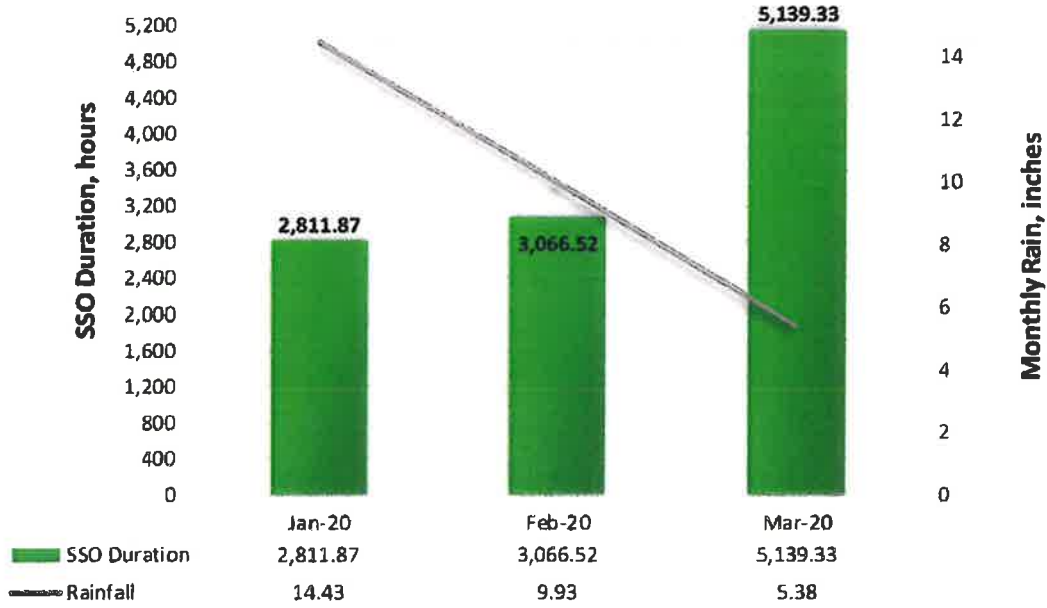
**Figure 2: Percentage of Collection System SSOs by Cause**



**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 2020.

Figures 5 through 7 are not used in this report because **no** SSOs were reported at pump stations this quarter.



**Table 2**  
**City of Jackson, Mississippi**  
**Quarterly Report No. 28 – January 2020 through March 2020**  
**Pump Station SSOs**

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
<b>NO PUMP STATION SSOs REPORTED - January 2020</b>									
<b>NO PUMP STATION SSOs REPORTED - February 2020</b>									
<b>NO PUMP STATION SSOs REPORTED - March 2020</b>									

## 2.3 West Bank Interceptor SSOs

West Bank Interceptor SSOs at the Jefferson Street 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 West Bank Interceptor SSOs for January through March 2020.

**Figure 9** shows West Bank Interceptor SSO events by month by reported cause, as listed in Table 3, 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 11a** shows total volume of West Bank Interceptor SSOs for each month, as well as monthly maximum river stage to show the relationship between river stage and SSO volume.

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

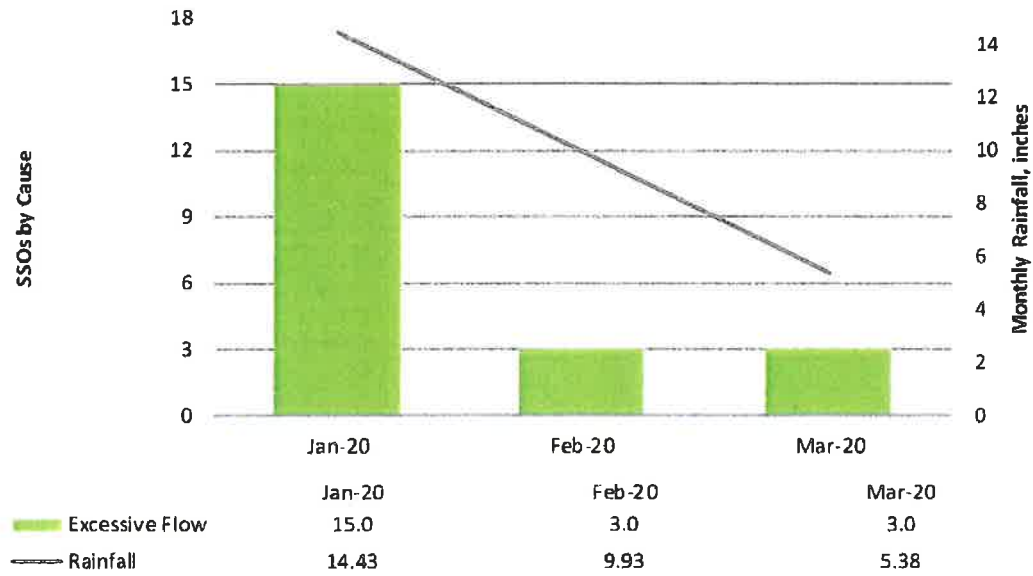
**Figure 12a** shows total duration of West Bank Interceptor SSOs for each month, as well as monthly maximum river stage to show the relationship between river stage and SSO duration.

There were twenty-one (21) SSO events on the West Bank Interceptor in this reporting period. All events were caused by excessive flow due to rainfall and high river levels. The Jackson area received 29.74" of rainfall, or 105% above normal, during the reporting period. Also during January and February 2020, the Pearl River was at or above flood action stage of 24 feet for 44 days. During this period, the system experienced a dramatic increase in inflow. Aerial inspection by the Mississippi Emergency Management Agency and the City of Jackson noted several damaged manholes that allowed floodwaters to enter the collection system.

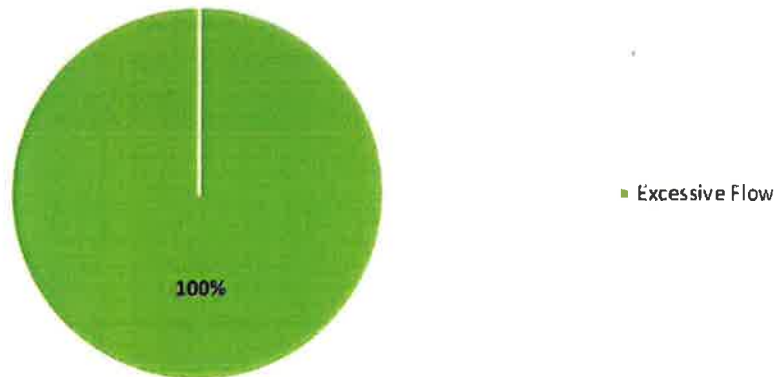
**Table 3**  
**City of Jackson, Mississippi**  
**Quarterly Report No. 28 – January 2020 through March 2020**  
**West Bank Interceptor SSOs**

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
1/2/2020	8:13 AM	408 Jefferson St	Manhole	2.23	100,000	Yes	Pearl	4.01	Excessive Flow
1/2/2020	6:30 PM	408 Jefferson St	Manhole	5.50	300,000	Yes	Pearl	4.01	Excessive Flow
1/6/2020	10:46 AM	408 Jefferson St	Manhole	1.13	189,564	Yes	Pearl	0.36	Excessive Flow
1/6/2020	1:54 PM	408 Jefferson St	Manhole	2.00	412,894	Yes	Pearl	0.36	Excessive Flow
1/7/2020	7:50 AM	408 Jefferson St	Manhole	2.57	811,549	Yes	Pearl	0.00	Excessive Flow
1/7/2020	11:42 AM	408 Jefferson St	Manhole	1.67	522,816	Yes	Pearl	0.00	Excessive Flow
1/7/2020	7:22 PM	408 Jefferson St	Manhole	1.30	279,438	Yes	Pearl	0.00	Excessive Flow
1/8/2020	7:26 AM	408 Jefferson St	Manhole	2.00	511,599	Yes	Pearl	0.00	Excessive Flow
1/8/2020	11:56 AM	408 Jefferson St	Manhole	2.60	668,701	Yes	Pearl	0.00	Excessive Flow
1/9/2020	7:42 AM	408 Jefferson St	Manhole	9.33	929,723	Yes	Pearl	0.00	Excessive Flow
1/10/2020	1:27 PM	408 Jefferson St	Manhole	4.95	940,339	Yes	Pearl	0.36	Excessive Flow
1/10/2020	8:10 PM	408 Jefferson St	Manhole	5.83	596,980	Yes	Pearl	0.36	Excessive Flow
1/11/2020	7:41 AM	408 Jefferson St	Manhole	0.32	12,318	Yes	Pearl	1.79	Excessive Flow
1/11/2020	8:16 AM	408 Jefferson St	Manhole	17.00	6,831,520	Yes	Pearl	1.79	Excessive Flow
1/14/2020	9:31 AM	408 Jefferson St	Manhole	237.65	152,149,223	Yes	Pearl	4.14	Excessive Flow
2/11/2020	11:59 AM	408 S Jefferson St	Manhole	383.08	258,513,631	Yes	Pearl	0.89	Excessive Flow
2/13/2020	2:58 PM	345 St Andrew s Drive	Manhole	335.53	Not Reported	Yes	Purple	0.19	Excessive Flow
2/17/2020	10:15 PM	308 S Jefferson St	Manhole	134.50	672,500	Yes	Pearl	0.06	Excessive Flow
3/4/2020	4:27 PM	408 S Jefferson St	Manhole	1.95	501,296	Yes	Pearl	1.89	Excessive Flow
3/5/2020	10:18 AM	408 S Jefferson St	Manhole	0.33	3,010	Yes	Pearl	0.38	Excessive Flow due to high river level
3/7/2020	3:03 PM	408 S Jefferson St	Manhole	122.95	51,594,579	Yes	Pearl	0.30	Excessive Flow due to high river level. River level was above 30' for the duration of the event.

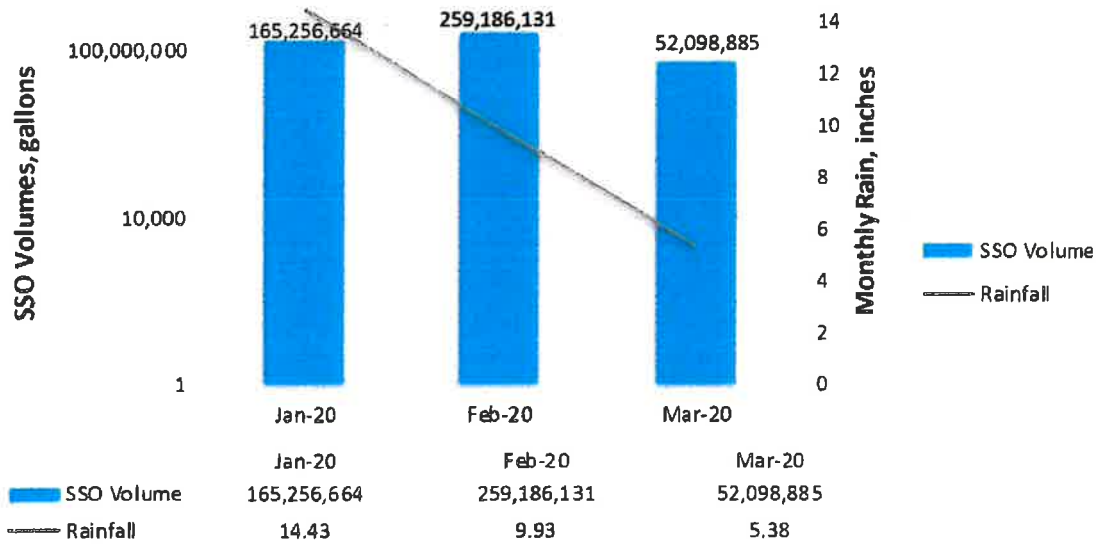
**Figure 9: West Bank Interceptor SSOs by Cause**



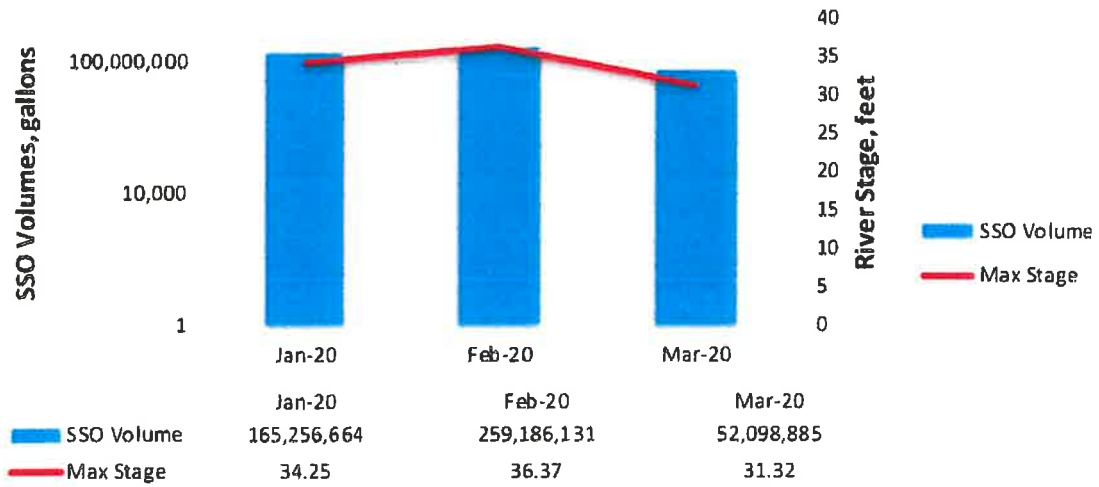
**Figure 10: Percentage of West Bank Interceptor SSOs by Cause**



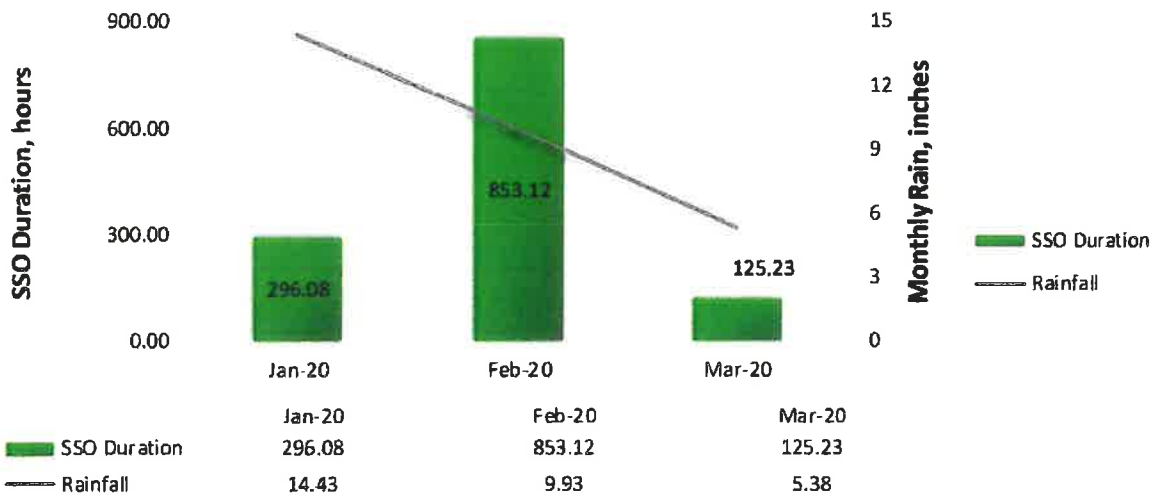
**Figure 11: West Bank Interceptor SSO Volume**



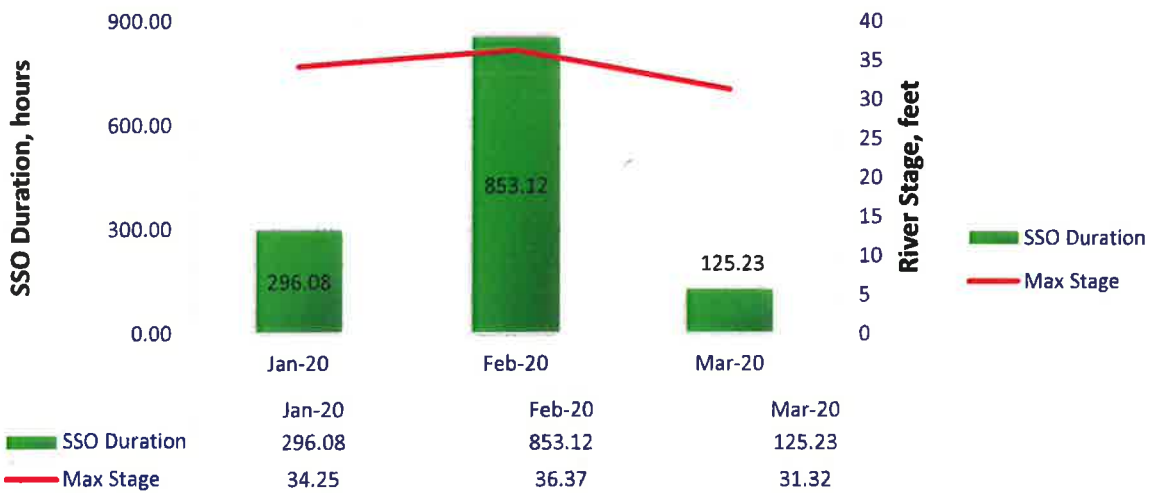
**Figure 11a: West Bank Interceptor SSO Volume**



**Figure 12: West Bank Interceptor SSO Duration**



**Figure 12a: 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. Note that duration of prohibited bypasses is plotted in days.

There were three (3) bypass events this reporting period. All events were reported to MDEQ as being caused by excessive flow due to rainfall and high river levels. The Jackson area received 29.74" of rainfall, or 105% above normal, during the reporting period. Also during January and February 2020, the Pearl River was at or above flood action stage of 24 feet for 44 days. It should also be noted that the Pearl River reached a peak level of 36.67 feet on February 17, 2020, which is the third highest historical peak ever recorded. During this period, the system experienced a dramatic increase in inflow. Aerial inspection by the Mississippi Emergency Management Agency and the City of Jackson noted several damaged manholes that allowed floodwaters to enter the collection system.

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. 28 – January 2020 through March 2020**  
**Prohibited Bypasses**

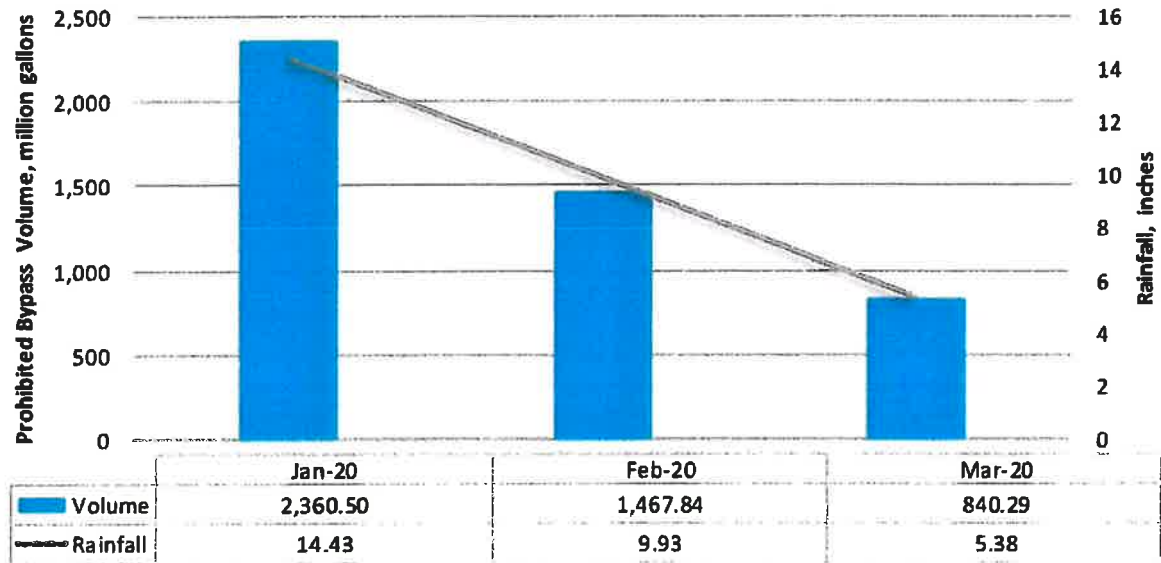
Date Began	Time Began	Location	Source	Estimated Duration, Days	Estimated Volume, Million Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
12/11/19	9:00 AM	3811 I 55 S	WWTP	55	3,645.17	Yes	Pearl	18.10*	Excessive flow
02/08/20	7:20 AM	3811 I 55 S	WWTP	41	2,117.93	Yes	Pearl	10.88*	Excessive flow
03/22/20	2:30 PM	3810 I 55 S	WWTP	6	152.37	Yes	Pearl	1.07*	Excessive flow

The total duration and volume bypassed for each event is shown in the table above. The December 11, 2019 event ended on February 3, 2020. The February 8, 2020 event ended on March 18, 2020 and the March 22, 2020 event ended on March 27, 2020.

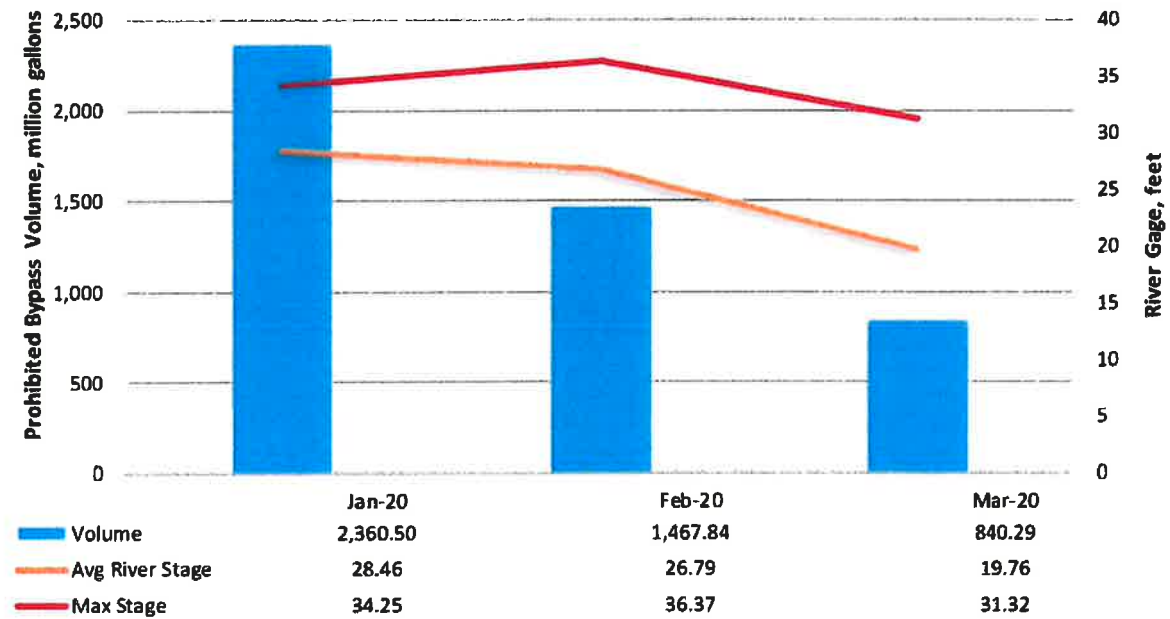
\*Total rainfall is shown for the duration of each event.



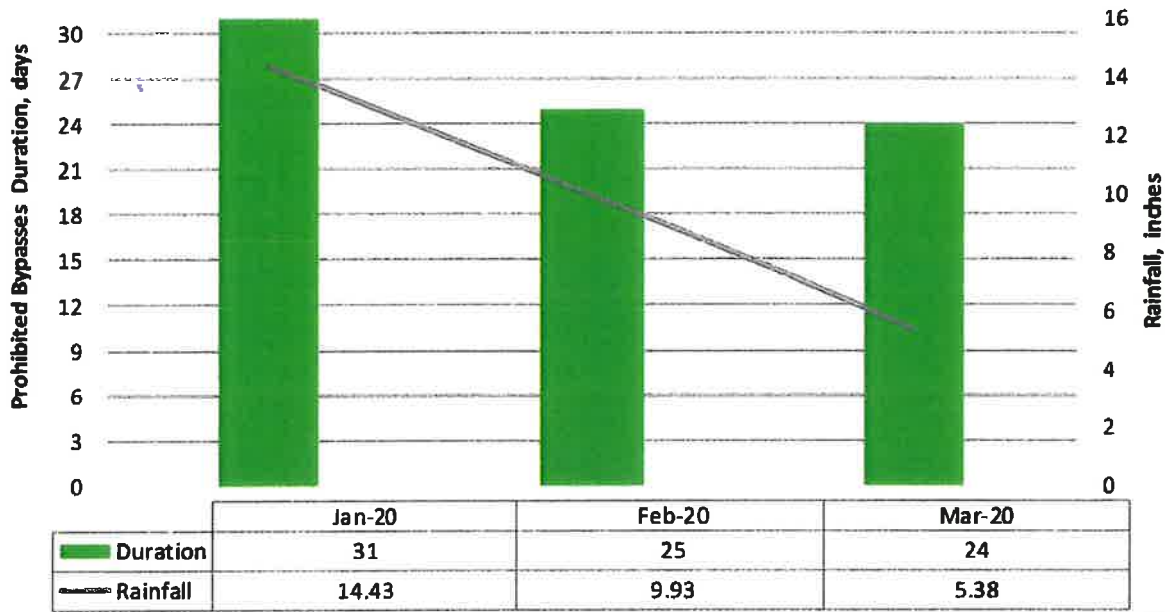
**Figure 13: Prohibited Bypass Volume vs. Rainfall**



**Figure 14: Prohibited Bypass Volume vs. River Stage**



**Figure 15: Prohibited Bypass Duration vs. Rainfall**



**Figure 16: Prohibited Bypass Duration vs. River Stage**

