WAGGONER

WEI/AJA, LLC

October 30, 2021

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

Michelle Clark
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. 34

Dear Lady and Sirs:

On behalf of the City of Jackson, please find enclosed the Jackson Consent Decree Quarterly Report 34. Should you have any questions, please contact me.

Sincerely,

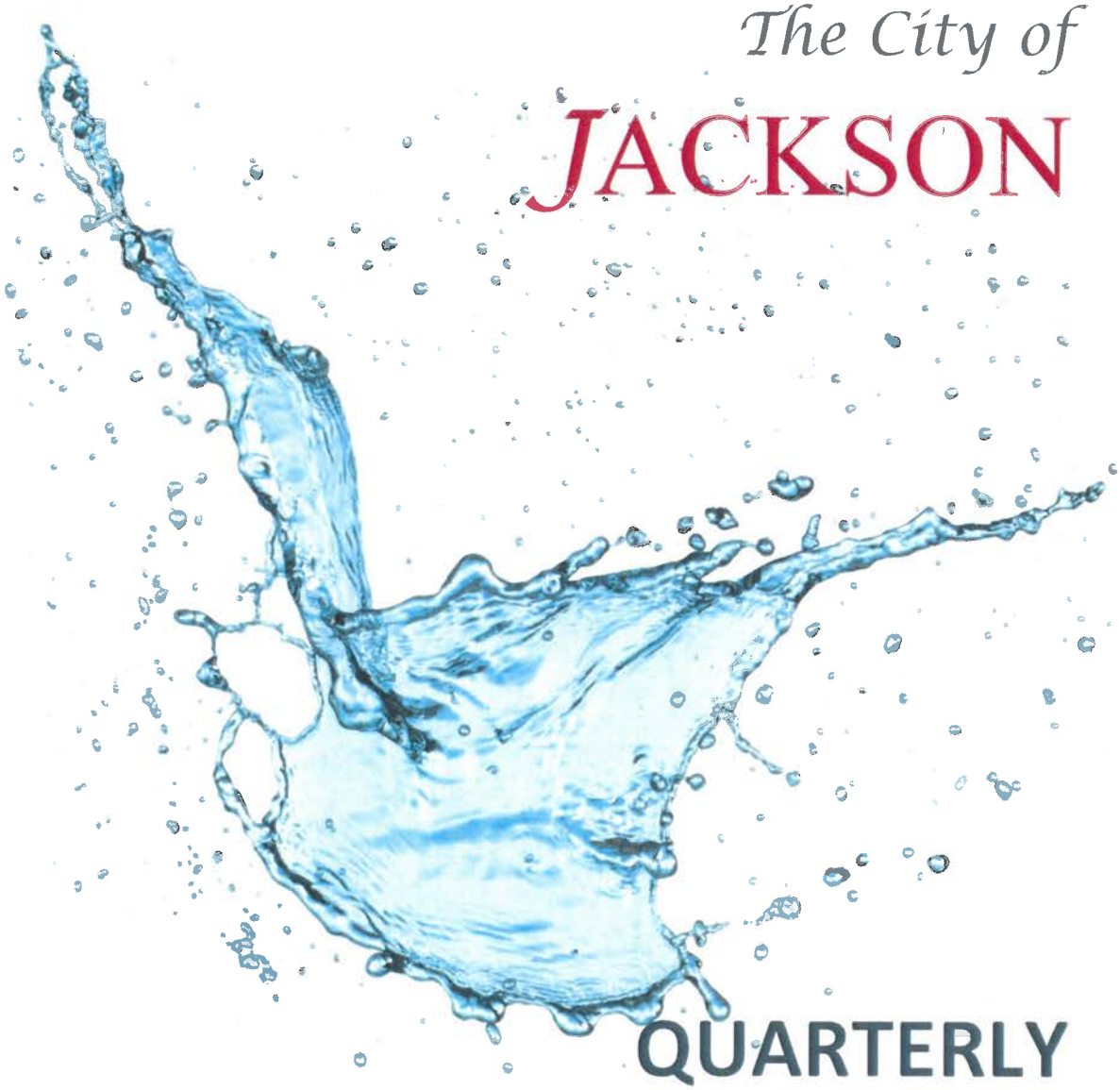
Jennifer Jorge, Ph.D.
Program Manager

Enclosure
cc: Honorable Chokwe Antar Lumumba, Mayor
Catoria P. Martin, City Attorney
Marlin King, Director, Public Works Department
Charles Williams, P.E., Ph.D., City Engineer, Public Works Department
Terry Williamson, Legal Counsel
Mary D. Carter, Deputy Director, Water Operations, Public Works Department
Public Depository, Eudora Welty Public Library
Bailey Long, P.E., MDEQ

143-A LeFleurs Square, Jackson, Mississippi 39211 Telephone: (601)-355-9526 Fax: (601) 352-3945

The City of

JACKSON



QUARTERLY REPORT NO. 34

JULY 2021 THROUGH SEPTEMBER 2021

Department of Public Works
Consent Decree Program

City of Jackson
Wastewater Infrastructure Redevelopment Program

Quarterly Report No. 34
July 2021 through September 2021

October 30, 2021

Prepared for:

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

Prepared by:

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

City of Jackson, Mississippi
Quarterly Report No. 34
July 2021 through September 2021

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.

CRM

Chokwe Antar Lumumba
Mayor

10/29/2021
Date

Marlin King, Director
Department of Public Works

10/27/21
Date

Quarterly Report No. 34
July 2021 through September 2021

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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, https://www.jacksonms.gov/departments/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

WEI/AJA, LLC was retained in October 2020 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 July 2021 – September 2021 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.

Eight (8) events occurred at eight (8) locations on private property reported in this period. The cause of these events was determined to be problems on the private laterals and the crews notified owners. These events were reported to MDEQ and are included in this report.

Sixteen (16) 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 forty-nine (49) 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. Thirty-three (33) of these unresolved events were reported to be caused by grease, roots or solids. Lack of qualified personnel and equipment has hampered the city's ability to timely resolve routine maintenance issues causing SSOs.

"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 three (3) events for which the cause was undetermined and they will be further investigated. There was one (1) event that was caused by contractor damage; one (1) event caused by bypass pump failure and one (1) event caused by the homeowner piping the building sewer to the curb. These are shown as "Other" in the graphs. There were three (3) events for which the

estimated volume was not reported. Proper reporting will be covered in future training sessions for the Sewer Maintenance personnel within the Public Works Department.

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 July through September 2021. 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 collection system SSOs for each month.

Figure 4 shows total duration of collection system SSOs for each month.

Nine (9) events occurred at nine (9) locations on private property reported in this period. The cause of these nine (9) events was determined to be problems on the private laterals and the crews notified owners. These events were reported to MDEQ and are included in this report.

Twenty-two (22) events occurred at cleanouts on private property this period. Sixteen (16) events were caused by problems in the City's sewer system and are included in this report.

There were forty-nine (49) 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. Thirty-three (33) of these unresolved events were reported to be caused by grease, roots or solids. Lack of qualified personnel and equipment has hampered the city's ability to timely resolve routine maintenance issues causing SSOs.

"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 three (3) events for which the cause was undetermined and they will be further investigated. There was one (1) event that was caused by contractor damage; one (1) event caused by bypass pump failure and one (1) event caused by the homeowner piping the building sewer to the curb. These are shown as "Other" in the graphs. There were three (3) events for which the

estimated volume was not reported. Proper reporting will be covered in future training sessions for the Sewer Maintenance personnel within the Public Works Department.

Table 1
City of Jackson, Mississippi
Quarterly Report No. 34 – July 2021 through September 2021
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
6/24/2021	7:40 AM	2026 Cherokee Dr	Cleanout	1.00	5	Yes	Eastover	0.00	Grease / Solids
6/26/2021	9:18 AM	218 Yerger St	Manhole	4.45	50	Yes	Town	0.00	Grease / Solids
6/30/2021	6:56 AM	5417 Mimosa Dr	Manhole	0.72	25	Yes	Hanging Moss	0.00	Solids
6/29/2021	7:04 AM	171 Westhaven Blvd	Manhole	2.43	100	Yes	Lynch	0.00	Collapsed Pipe
6/29/2021	11:45 AM	133 Cherry Hill Dr	Manhole	1.60	100	Yes	Purple	0.00	Roots / Solids
6/16/2021	6:28 PM	1648 Pear Orchard Pl	Ground Surface (defective pipe underground)	Ongoing-Unresolved	11,500	Yes	Purple	0.01	Collapsed Pipe / Roots
6/24/2021	10:40 AM	1232 Corinth St	Ground Surface (defective pipe underground)	1.00	5	Yes	Lynch	1.69	Collapsed Pipe
6/14/2021	6:06 PM	Livingston St / Wilson St	Manhole	Ongoing-Unresolved	50,000	Yes	Town	0.00	Collapsed Pipe
6/30/2021	9:30 AM	3844 Warner Ave	Manhole	4.00	NR	No	NA	0.00	Collapsed Pipe / Manhole
6/22/2021	10:26 AM	Oxford Ave / Hartfield St	Manhole	1.40	40,000	No	NA	0.00	Collapsed Pipe
6/23/2021	10:00 AM	1235 Corinth St	Ground Surface (defective pipe underground)	Ongoing-Unresolved	19,500	Yes	Lynch	0.00	Collapsed Pipe
7/2/2021	5:05 PM	448 Cambridge Lane	Ground Surface (defective pipe underground)	125.98	11,250	Yes	Trahon	0.99	Grease
7/4/2021	1:02 PM	1985 Scanlon Dr	Manhole	Ongoing-Unresolved	9,800	Yes	Hardy	0.00	Grease
7/9/2021	4:09 PM	3308 Fleetwood Dr	Manhole	0.53	400	Yes	Cany	0.00	Grease
7/9/2021	10:24 AM	3539 W Northside Dr	Manhole	0.12	190	Yes	Bogue Chitto	0.00	Rags
7/13/2021	1:40 PM	N Jefferson St / E Fortification St	Manhole	1.43	200	Yes	Belhaven	0.00	Grease
7/14/2021	10:15 AM	374 Heritage Pl	Manhole	4.38	200	Yes	Trahon	0.00	Grease

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 34 – July 2021 through September 2021
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
7/14/2021	8:04 AM	5132 Queen Eleanor Lane	Ground Surface (defective pipe underground)	3.92	2,800	Yes	Lynch	1.19	Contractor Damage
7/15/2021	12:58 PM	Moody St / Greymont St	Manhole	1.27	2,000	No	NA	0.00	Grease
7/20/2021	4:50 PM	159 Chatham Cir	Manhole	0.33	1,000	No	NA	0.05	Collapsed Pipe
7/20/2021	2:48 PM	4816 Sunnybrook Dr	Ground Surface (defective pipe underground)	22.03	1,650	Yes	Lynch	0.01	Grease
7/21/2021	8:30 AM	3131 Woodview Dr	Manhole	2.57	100	Yes	Cany	0.00	Grease
7/22/2021	11:29 AM	2981 W McDowell Road	Manhole	0.53	2,000	No	NA	0.00	Grease
7/22/2021	3:42 PM	109 Elcrest St	Manhole	1.08	1,000	No	NA	0.00	Grease
7/24/2021	3:30 PM	2875 Fallbrook Dr	Manhole	1.00	200	Yes	Cany	0.06	Grease
7/27/2021	9:00 AM	4203 Oakmont Dr	Ground Surface (defective pipe underground)	19.55	200	Yes	Lynch	0.21	Collapsed Pipe
7/29/2021	9:13 AM	341 Maywood Cir	Other	Ongoing-Unresolved	600	Yes	Hanging Moss	0.00	Above ground pipe draining from house to curb
7/30/2021	11:37 AM	330 N Mart Plz	Manhole	0.97	2,000	No	NA	0.00	Grease
8/16/2021	6:53 AM	1523 Westhaven Blvd	Constructed Bypass	4.57	350	Yes	Lynch	0.00	Grease
8/17/2021	1:03 PM	Forest Ave / Watkins Dr	Manhole	1.07	300	Yes	Eubanks	0.00	Grease
5/18/2021	4:45 PM	Woodrow Wilson Ave / Gordon St	Manhole	1,893.93	28,800	Yes	Town	0.56	Grease
8/11/2021	12:53 PM	937 Stuart St	Manhole	6.00	120	Yes	Hardy	0.52	Grease
7/23/2021	3:52 PM	3324 Nashville St	Manhole	307.30	4,200	Yes	Town	0.00	Grease
8/1/2021	NR	4816 Sunnybrook Dr	Ground Surface (defective pipe underground)	426.02	9,000	No	NA	0.01	Grease

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 34 – July 2021 through September 2021
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
8/2/2021	8:17 AM	975 I Frontage Rd	Manhole	1.23	3,500	Yes	Lynch	0.71	Grease / Solids
8/6/2021	8:30 AM	436 Kia Lee Drive	Cleanout	Ongoing-Unresolved	125	No	NA	0.00	Grease-Private Lateral
8/6/2021	10:00 AM	331 Queen Catherine Lane	Manhole	Ongoing-Unresolved	2,600	Yes	Lynch	0.00	Grease
8/7/2021	2:12 PM	3734 Brookwood Place	Cleanout	Ongoing-Unresolved	1,250	No	NA	0.00	Grease-Private Lateral
8/12/2021	2:06 PM	2304 Timber Crossing Road	Manhole	Ongoing-Unresolved	40,000	No	NA	0.00	Grease
8/13/2021	2:10 PM	600 Houston Ave	Manhole	Ongoing-Unresolved	5,700	No	NA	0.00	Solids
8/15/2021	8:08 AM	1512 Holden St	Ground Surface (defective pipe underground)	Ongoing-Unresolved	850	Yes	Lynch	0.00	Collapsed Pipe
8/15/2021	1:30 PM	4625 Casablanca Dr	Manhole	Ongoing-Unresolved	1,700	Yes	Eubanks	0.00	Solids
8/17/2021	2:20 PM	3918 W Bullard St	Manhole	20.07	200	No	NA	0.00	Grease
8/19/2021	1:33 PM	212 Roosevelt St	Manhole	Ongoing-Unresolved	130	No	NA	0.90	Solids
8/22/2021	2:10 PM	3436 Bailey Ave	Manhole	Ongoing-Unresolved	6,000	Yes	Eubanks	0.00	Grease
8/23/2021	11:00 AM	546 Clubview Drive	Cleanout	1.40	1,000	No	NA	0.00	Grease
8/23/2021	9:00 AM	149 Livingston St	Manhole	Ongoing-Unresolved	900	Yes	Town	0.00	Grease
8/23/2021	9:15 AM	1620 N Mill St	Manhole	Ongoing-Unresolved	4,500	Yes	Town	0.00	Collapsed Pipe
8/25/2021	10:00 AM	827 Monterey St	Manhole	Ongoing-Unresolved	3,500	Yes	Three Mile	0.28	Grease
8/27/2021	1:49 PM	629 Fondren Pl	Manhole	Ongoing-Unresolved	10,000	Yes	Town	0.03	Grease
8/30/2021	10:42 AM	1295 Palmyra St	Manhole	Ongoing-Unresolved	1,200	Yes	Town	3.65	Solids
8/31/2021	2:50 PM	1264 High St	Cleanout	Ongoing-Unresolved	50	No	NA	0.02	Grease

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 34 – July 2021 through September 2021
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
8/31/2021	9:07 AM	Monterey St / Gunda St	Manhole	Ongoing-Unresolved	500	Yes	Three Mile	0.10	Grease
8/31/2021	11:10 AM	1129 Langley Ave	Manhole	Ongoing-Unresolved	200	Yes	Lynch	0.02	Grease
8/24/2021	10:00 AM	1620 Mill St	Cleanout	2.47	1,000	No	NA	0.00	Collapsed Pipe
8/21/2021	2:20 PM	344 Valley Vista Dr	Manhole	335.80	6,100	Yes	Purple	0.00	Grease
8/27/2021	7:56 AM	Livingston / Mill St	Manhole	2.07	4,000	Yes	Town	0.03	Bypass Pump Failure
8/28/2021	3:20 PM	2440 Bailey Ave	Cleanout	Ongoing-Unresolved	3,025	No	NA	0.01	Grease-Private Lateral
9/1/2021	1:25 PM	1129 Langley Ave	Manhole	1.75	3,000	No	NA	0.11	Grease
9/2/2021	3:00 PM	Sheridan Dr / Broadmoor Dr	Ground Surface (defective pipe underground)	Ongoing-Unresolved	29,000	Yes	Eubanks	0.00	Solids
9/2/2021	3:38 PM	128 Robinhood Rd	Other	Ongoing-Unresolved	2,900	No	NA	0.00	Collapsed Pipe-Private Lateral
9/1/2021	11:01 AM	629 Fondren Pl	Manhole	13.78	5,000	No	NA	0.00	Grease
9/2/2021	9:38 AM	748 Nakoma Dr	Ground Surface (defective pipe underground)	Ongoing-Unresolved	13,250	No	NA	0.00	Collapsed Pipe
9/3/2021	8:05 AM	3856 Troy Ave	Cleanout	Ongoing-Unresolved	140	No	NA	0.00	Solids-Private Lateral
9/3/2021	2:42 PM	505 Meadowbrook Rd	Cleanout	0.75	200	No	NA	0.00	Grease
9/8/2021	9:58 AM	3027 Woodview Dr	Cleanout	Ongoing-Unresolved	4,600	Yes	Cany	0.00	Grease
9/8/2021	9:09 AM	307 E Ridgeway St	Cleanout	Ongoing-Unresolved	920	No	NA	0.00	Undetermined
9/8/2021	10:20 AM	804 Woody Dr	Manhole	Ongoing-Unresolved	2,300	Yes	Cany	0.00	Grease
9/8/2021	8:44 AM	1015 Trinity St	Cleanout	57.42	1,230	No	NA	0.00	Collapsed Pipe
9/8/2021	4:57 PM	1235 Corinth St	Ground Surface (defective pipe underground)	Ongoing-Unresolved	2,900	Yes	Lynch	0.00	Collapsed Pipe
9/8/2021	1:18 PM	454 Forest Ave	Ground Surface (defective pipe underground)	Ongoing-Unresolved	64,000	Yes	Hanging Moss	0.00	Solids

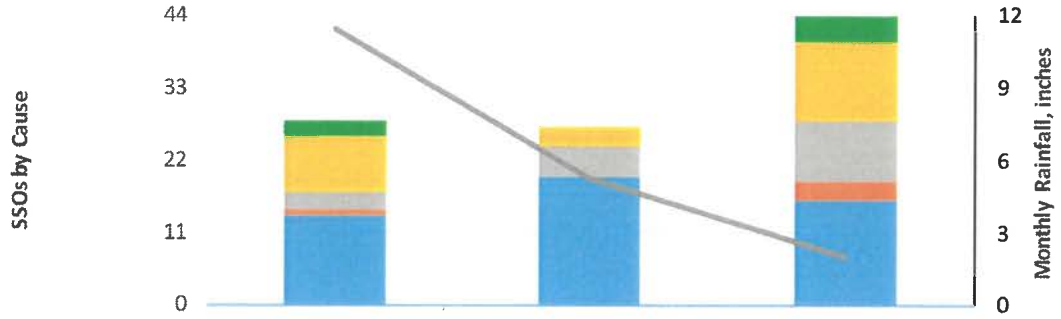
Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 34 – July 2021 through September 2021
Collection System SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waters of the State	Receiving Water	Rainfall, Inches	Reported Cause
9/9/2021	1:25 PM	4053 Pine Hill Dr	Cleanout	141.83	700	Yes	Eubanks	0.00	Collapsed Pipe
9/10/2021	1:35 PM	6030 I-55	Ground Surface (defective pipe underground)	Ongoing-Unresolved	63,000	Yes	White Oak	0.00	Undetermined-Private Lateral
9/10/2021	10:13 AM	6009 Woodlea Rd	Ground Surface (defective pipe underground)	Ongoing-Unresolved	16,200	Yes	Hanging Moss	0.00	Collapsed Pipe
9/10/2021	1:30 PM	399 Lakeshore Dr	Manhole	193.45	1,300	Yes	Trahon	0.00	Solids
9/11/2021	9:05 AM	120 Bristol Blvd	Cleanout	Ongoing-Unresolved	1,000	Yes	Hardy	0.00	Grease-Private Lateral
9/11/2021	8:28 AM	3414 N State St	Cleanout	99.78	180	No	NA	0.00	Solids
9/12/2021	10:18 AM	1915 Corley Ave	Ground Surface (defective pipe underground)	Ongoing-Unresolved	19,000	Yes	Town	0.01	Collapsed Pipe
9/13/2021	2:10 PM	Woodville Cir / Suncrest Dr	Cleanout	Ongoing-Unresolved	1,800	Yes	Cany	0.00	Roots
9/14/2021	11:16 AM	1002 Arlington St	Cleanout	Ongoing-Unresolved	34,000	No	NA	0.21	Collapsed Pipe
9/1/2021	9:31 AM	212 Roosevelt St	Cleanout	Ongoing-Unresolved	3,000	No	NA	0.21	Grease-Private Lateral
9/15/2021	3:41 PM	3549 Rosemary Ave	Manhole	Ongoing-Unresolved	32,000	No	NA	0.01	Collapsed Pipe
9/1/2021	2:14 PM	1295 Palmyra St	Manhole	360.65	8,000	No	NA	0.00	Grease
9/16/2021	3:29 PM	325 Heritage Pl	Cleanout	Ongoing-Unresolved	375	No	NA	0.00	Roots
9/16/2021	4:20 PM	4625 Heritage Manor Pl	Manhole	Ongoing-Unresolved	3,000	Yes	Trahon	0.00	Roots
9/16/2021	6:02 PM	1028 Woody Dr	Manhole	0.45	200	No	NA	0.00	Collapsed Pipe
9/16/2021	10:17 AM	1840 Meadowbrook Rd	Cleanout	2.63	3,000	No	NA	0.00	Grease
9/1/2021	9:45 AM	3436 Bailey Ave	Manhole	577.27	12,500	Yes	Eubanks	0.00	Solids
9/18/2021	10:46 AM	2844 Lakewood Dr	Cleanout	0.73	300	No	NA	0.00	Grease

Table 1 cont.
City of Jackson, Mississippi
Quarterly Report No. 34 – July 2021 through September 2021
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
9/20/2021	2:30 PM	212 Princeton St	Manhole	Ongoing-Unresolved	NR	Yes	Lynch	0.06	Grease
9/22/2021	11:00 AM	3706 Liberty St	Ground Surface (defective pipe underground)	Ongoing-Unresolved	360	Yes	Town	0.07	Grease
9/22/2021	1:25 PM	5874 Kinder Drive	Cleanout	Ongoing-Unresolved	360	No	NA	0.01	Solids
9/22/2021	9:22 AM	1858 Northwood Cir	Ground Surface (defective pipe underground)	Ongoing-Unresolved	3,600	No	NA	0.07	Solids
9/22/2021	3:00 PM	1812 Meadowbrook Rd	Ground Surface (defective pipe underground)	0.67	40	Yes	Eastover	0.03	Collapsed Pipe
9/23/2021	1:18 PM	105 Kolb Ave	Ground Surface (defective pipe underground)	Ongoing-Unresolved	NR	No	NA	0.00	Undetermined-Lateral on vacant lot
9/23/2021	9:57 AM	4004 Medgar Evers Blvd	Manhole	47.60	1,200	No	NA	0.00	Solids
9/24/2021	10:10 AM	5182 Sycamore Dr	Manhole	Ongoing-Unresolved	700	Yes	Trahon	0.00	Grease
9/25/2021	1:40 PM	5311 Shaw Rd	Manhole	Ongoing-Unresolved	300	Yes	Bakers	0.00	Collapsed Pipe
9/25/2021	8:25 AM	1010 Forest Ave	Manhole	0.13	Previous Signs of SSO	No	NA	0.00	Grease

Figure 1: Collection System SSOs by Cause



	Jul-21	Aug-21	Sep-21
Other	2.50	0.00	4.00
Collapsed Pipe	8.50	3.00	12.00
Solids	2.50	4.50	9.00
Roots	1.00	0.00	3.00
Grease	13.50	19.50	16.00
Rainfall	11.44	5.29	1.95

Figure 2: Percentage of Collection System SSOs by Cause

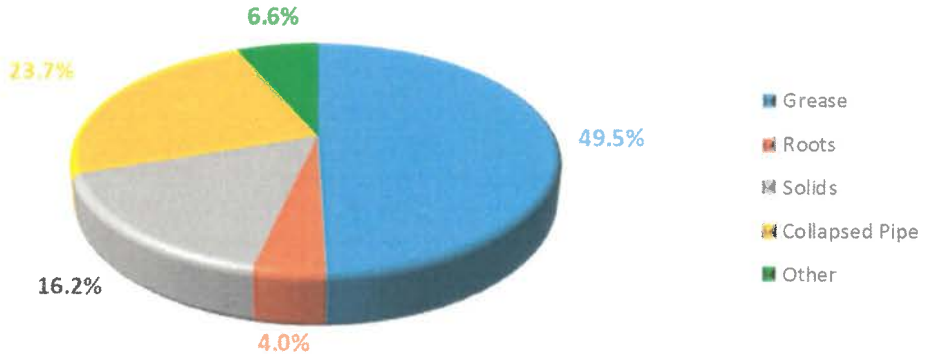


Figure 3: Collection System SSO Volume

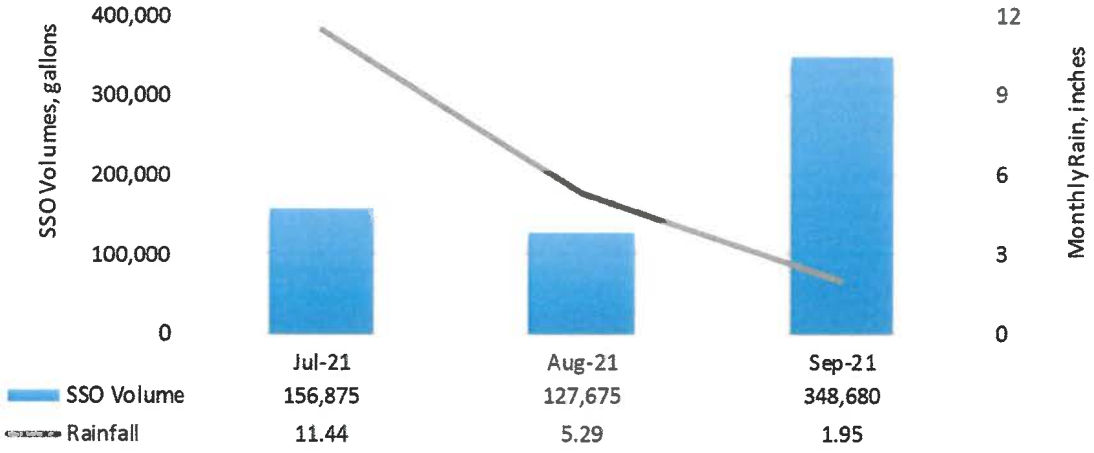
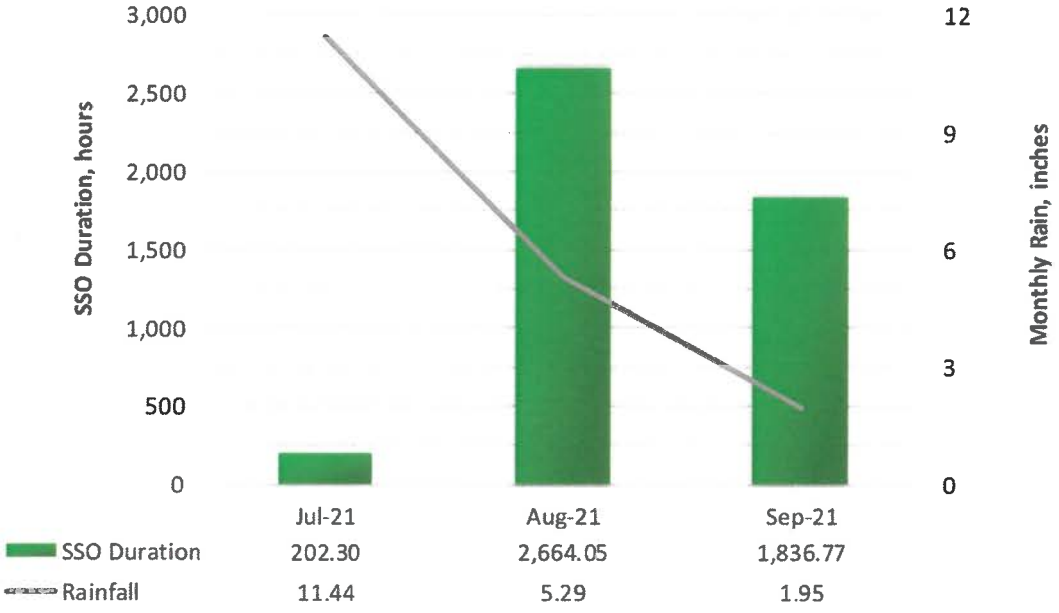


Figure 4: Collection System SSO Duration



2.2 Pump Station SSOs

Table 2 lists pump station SSOs for July through September 2021.

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. 34 – July 2021 through September 2021
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 - July 2021									
NO PUMP STATION SSOs REPORTED - August 2021									
NO PUMP STATION SSOs REPORTED - September 2021									

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 from 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 July through September 2021.

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

There were two (2) SSO events on the West Bank Interceptor in this reporting period. One event was caused by excessive flow due to rainfall; the other event was caused by a failure at the Savanna Influent Pump Station. The Jackson area received 18.68" of rainfall, or 68% above normal, during the reporting period with 11.44" during the month of July and 2.95" during Hurricane Ida on August 30,2021.

Table 3
City of Jackson, Mississippi
Quarterly Report No. 34 – July 2021 through September 2021
West Bank Interceptor SSOs

Date Began	Time Began	Location	Source	Estimated Duration, Hours	Estimated Volume, Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
NO WEST BANK INTERCEPTOR SSOs REPORTED - July 2021									
08/30/21	12:00 PM	408 S Jefferson St	Manhole	10.00	1,500,000	Yes	Pearl	2.76	Excessive Flow-Hurricane Ida
09/23/21	4:43 PM	408 S Jefferson St	Manhole	0.52	150,000	Yes	Pearl	2.76	Savanna Influent Pump Station Failure

Figure 9: West Bank Interceptor SSOs by Cause

	Jul-21	Aug-21	Sep-21
Excessive Flow	0.0	1.0	0.0
PS Failure	0.0	0.0	1.0
Rainfall	11.44	5.29	1.95

Figure 10: Percentage of West Bank Interceptor SSOs by Cause

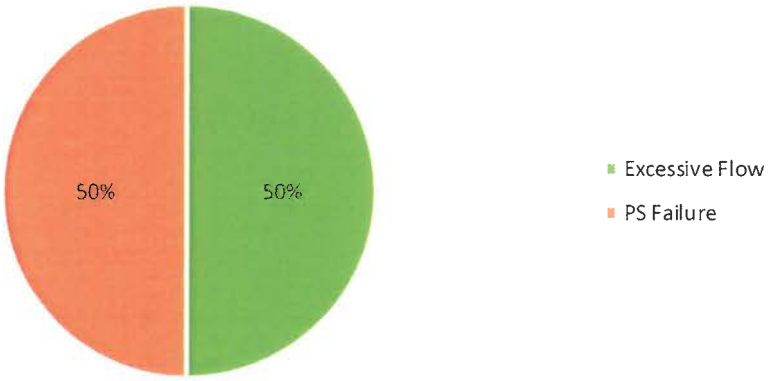


Figure 11: West Bank Interceptor SSO Volume

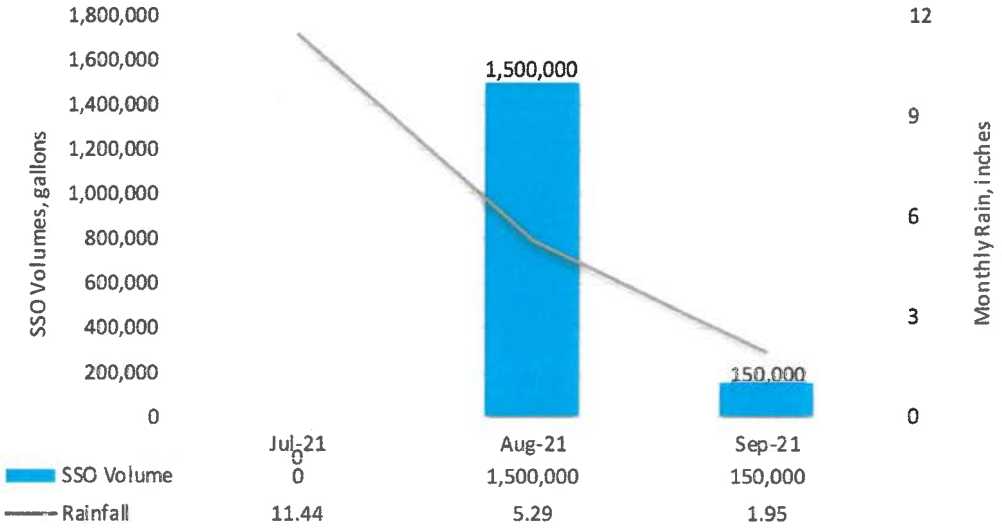
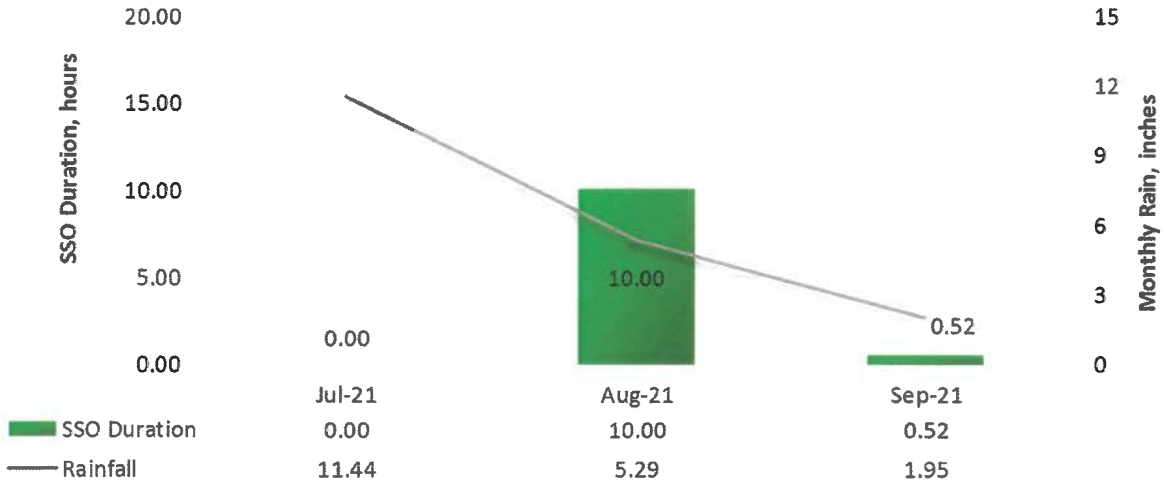


Figure 12: West Bank Interceptor SSO Duration



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 are due to specific causes explained below.

Table 4 lists prohibited bypasses at the wastewater treatment plant for the reporting period. 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.

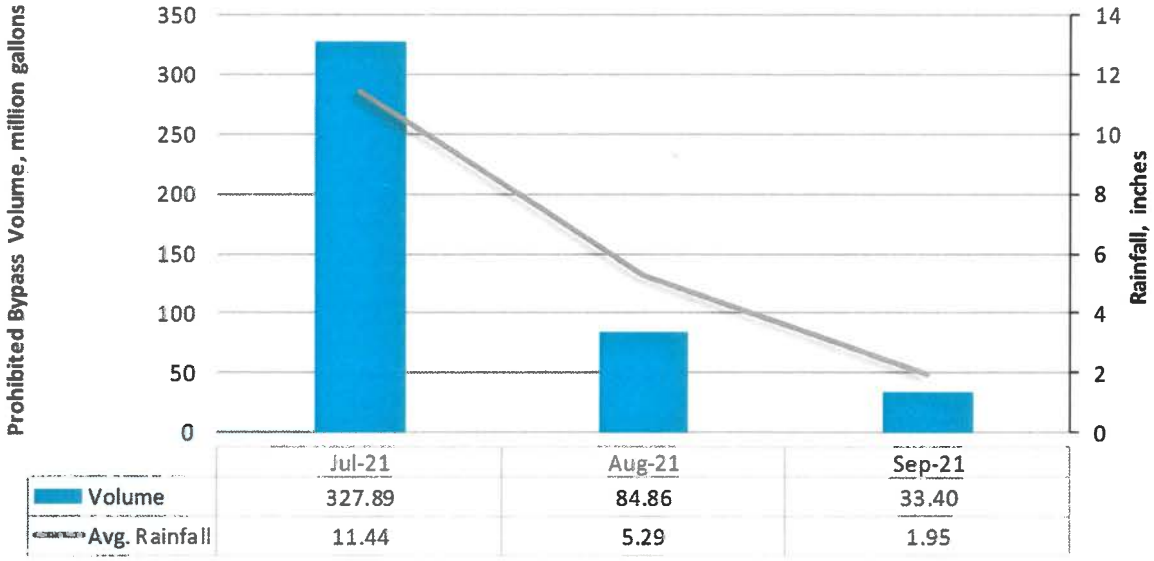
There were three (3) bypass events this reporting period. All events were reported to MDEQ as being caused by excessive flow due to rainfall and one event being caused by an electrical system failure as an additional contributing factor. The Jackson area received 18.68" of rainfall, or 68% above normal, during the reporting period with 11.44" during the month of July and 2.95" during Hurricane Ida on August 30,2021.

Table 4
City of Jackson, Mississippi
Quarterly Report No. 34 – July 2021 through September 2021
Prohibited Bypasses

Date Began	Time Began	Location	Source	Estimated Duration, Days	Estimated Volume, Million Gallons	Reached Waterway	Receiving Water	Rainfall, Inches	Reported Cause
07/07/21	6:15 AM	3810 I 55 S	WWTP	5	131.74	Yes	Pearl	3.30	Excessive flow / Electrical equipment failure
07/16/21	9:02 PM	3810 I 55 S	WWTP	8	196.15	Yes	Pearl	3.51	Excessive flow
08/30/21	6:00 PM	3810 I 55 S	WWTP	5	118.26	Yes	Pearl	2.95	Excessive flow-Hurricane Ida

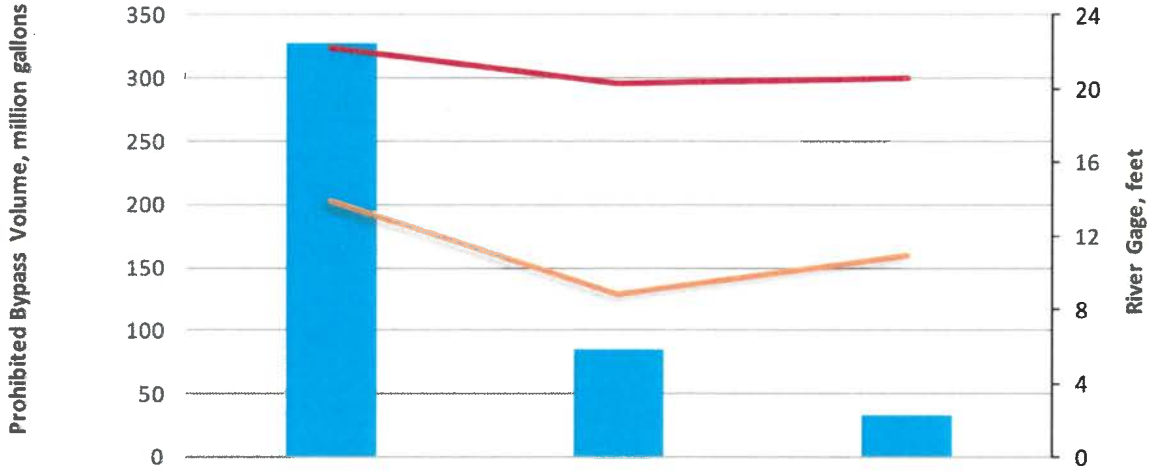
The total duration and volume bypassed for each event is shown in the table above. The July 7, 2021 event ended on July 11, 2021. The July 16, 2021 event ended on July 23, 2021 and the August 30, 2021 event ended on September 3, 2021.

Figure 13: Monthly Prohibited Bypass Volume vs. Rainfall



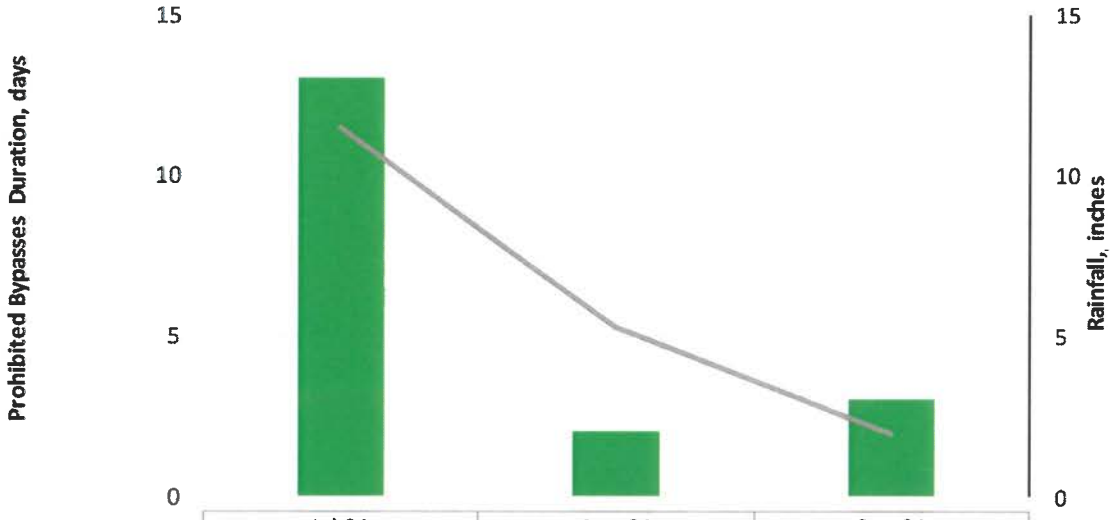
	Jul-21	Aug-21	Sep-21
Volume	327.89	84.86	33.40
Avg. Rainfall	11.44	5.29	1.95

Figure 14: Monthly Prohibited Bypass Volume vs.River Stage



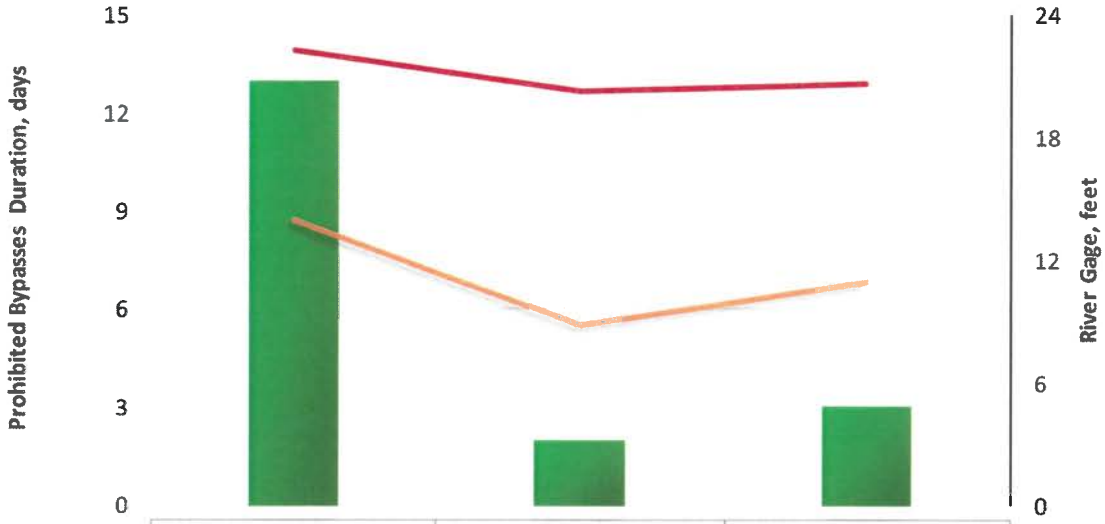
	Jul-21	Aug-21	Sep-21
Volume	327.89	84.86	33.40
Avg River Stage	13.93	8.84	10.92
Max Stage	22.23	20.24	20.58

Figure 15: Monthly Prohibited Bypass Duration vs. Rainfall



	Jul-21	Aug-21	Sep-21
Duration	13	2	3
Avg. Rainfall	11.44	5.29	1.95

Figure 16: Monthly Prohibited Bypass Duration vs. River Stage



	Jul-21	Aug-21	Sep-21
Duration	13	2	3
Avg River Stage	13.93	8.84	10.92
Max Stage	22.23	20.24	20.58