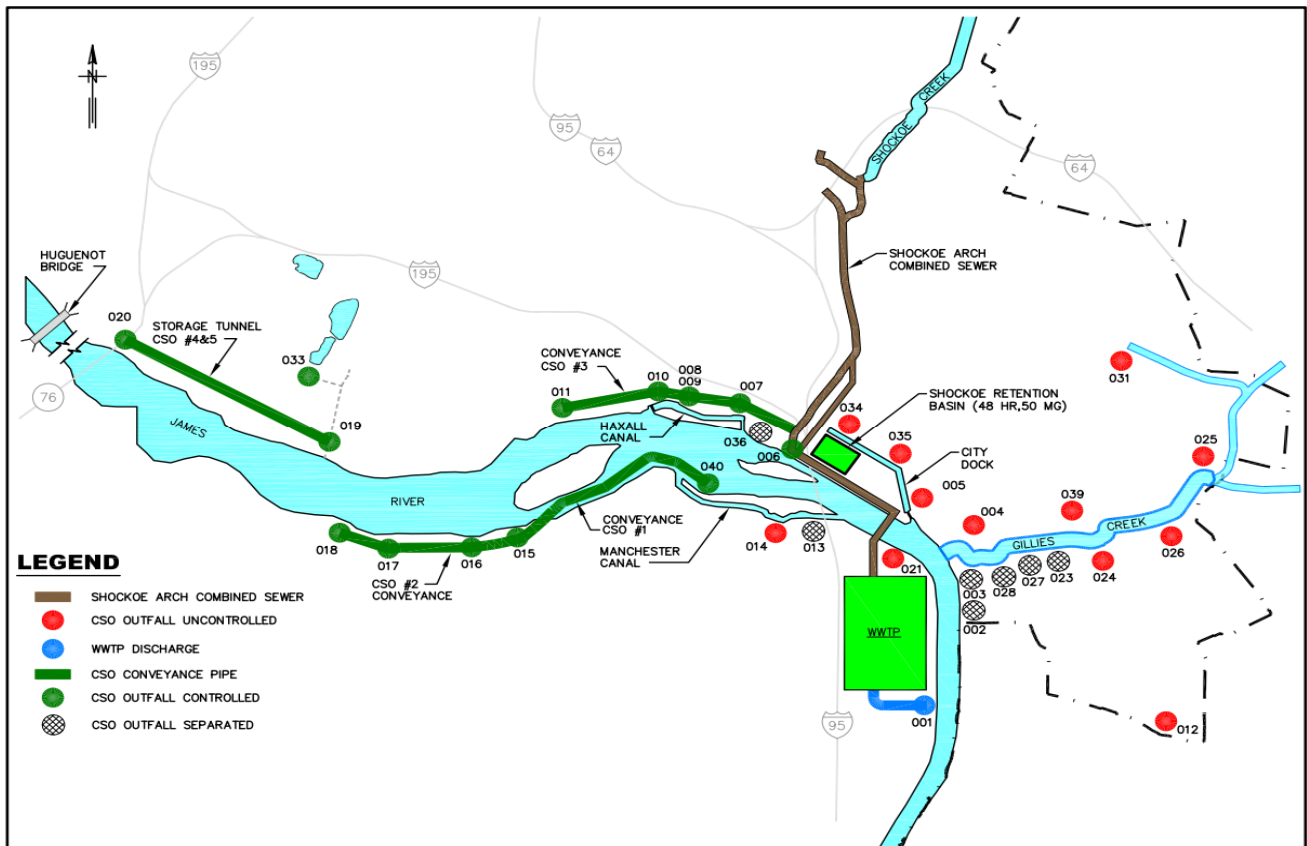


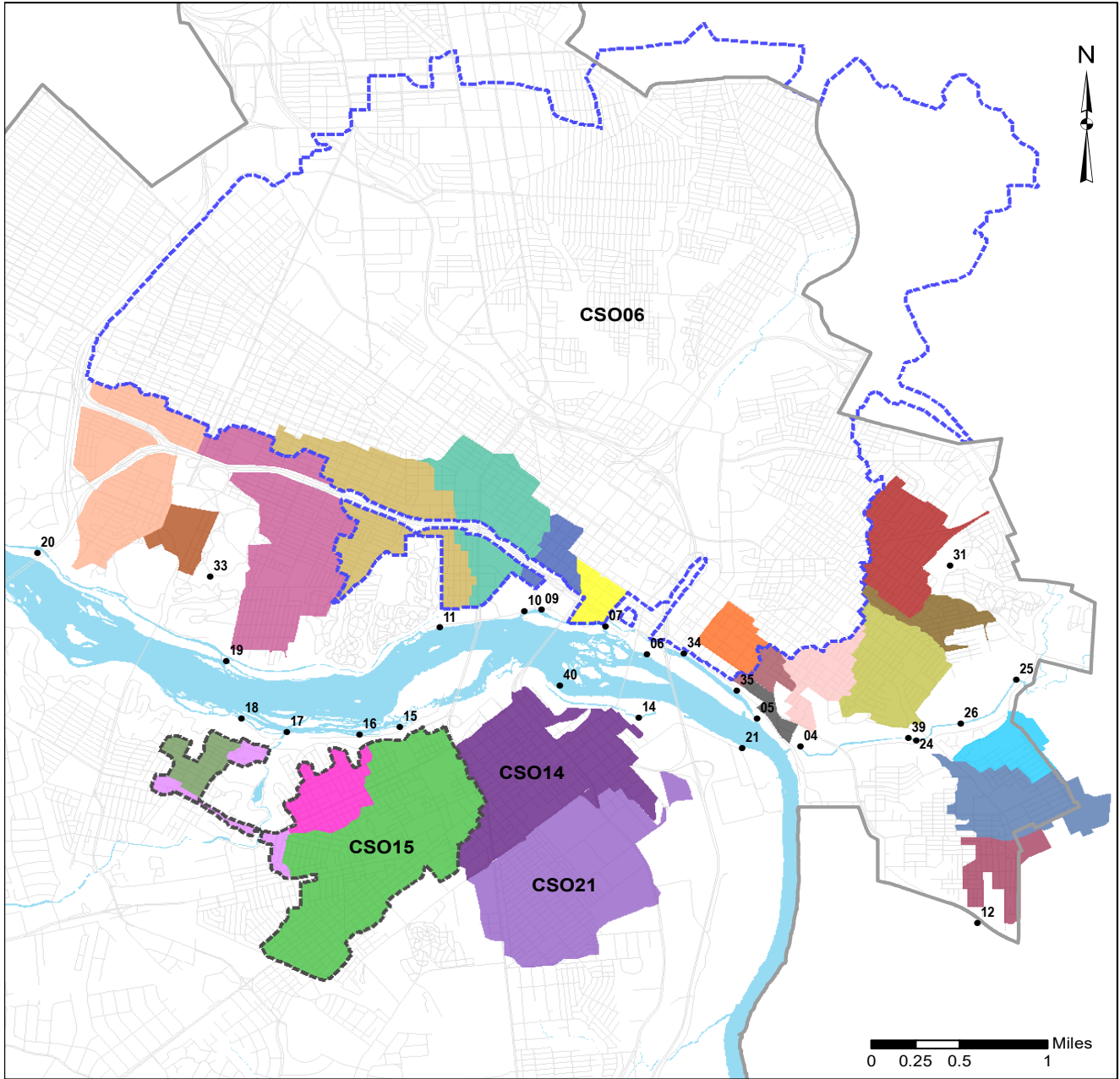
CITY OF RICHMOND, VIRGINIA  
DEPARTMENT OF PUBLIC UTILITIES

Combined Sewer Overflow Monthly Report

March, 2020



# Combined Sewer System Drainage Area Map



## Legend

City Limit	CSO04	CSO09	CSO14	CSO18	CSO24	CSO33	CSO40
CSO05	CSO10	CSO15	CSO19	CSO25	CSO34		
CSO06	CSO11	CSO16	CSO20	CSO26	CSO35		
CSO07	CSO12	CSO17	CSO21	CSO31	CSO39		

**CSO04 - Bloody Run  
Overflow Model Summary  
Current Month: March 2020**

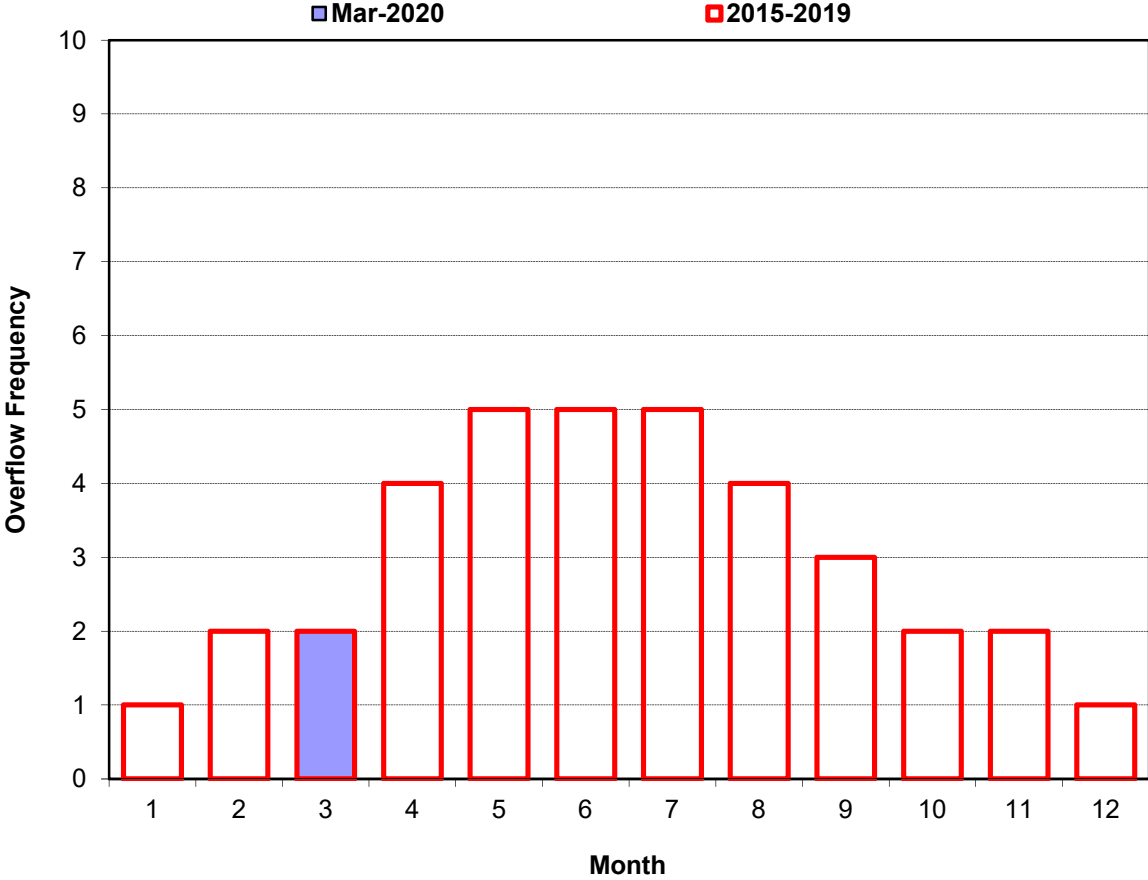
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20	1	0.80	3.42	0.60	0.05	1.17
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20	1	0.50	2.75	0.36	0.002	0.08

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	2.68	13.75	0.96	0.05	1.25

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



**CSO05 - Peach Street  
Overflow Model Summary  
Current Month: March 2020**

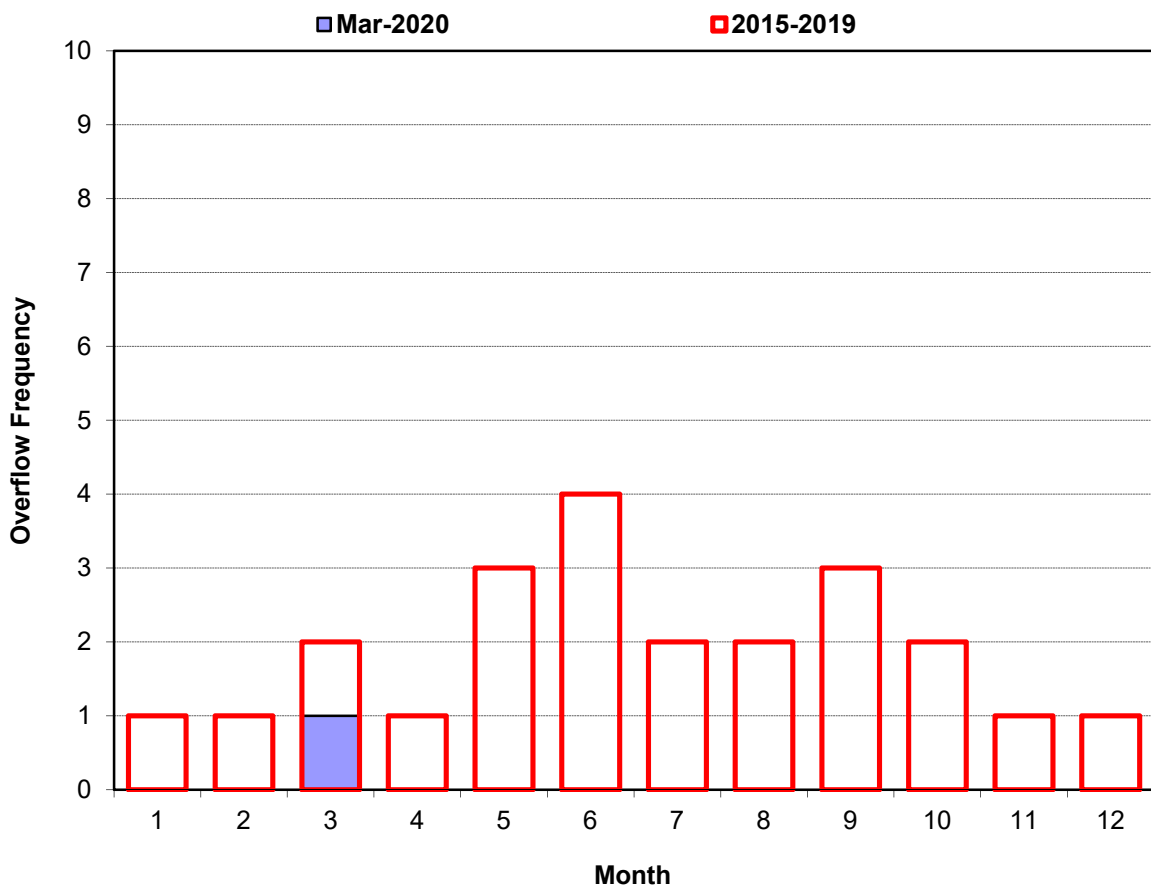
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20	1	0.80	3.42	0.60	0.03	1.50
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
1	2.68	13.75	0.96	0.03	1.50

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



**CSO06 - Shockoe**  
**Overflow Model Summary<sup>†</sup>**  
**Current Month:    March    2020**

Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20	1	0.80	3.42	0.60	19	5.67
3/24/20						
3/25/20	1	0.76	4.33	0.36	30.1	13.25
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

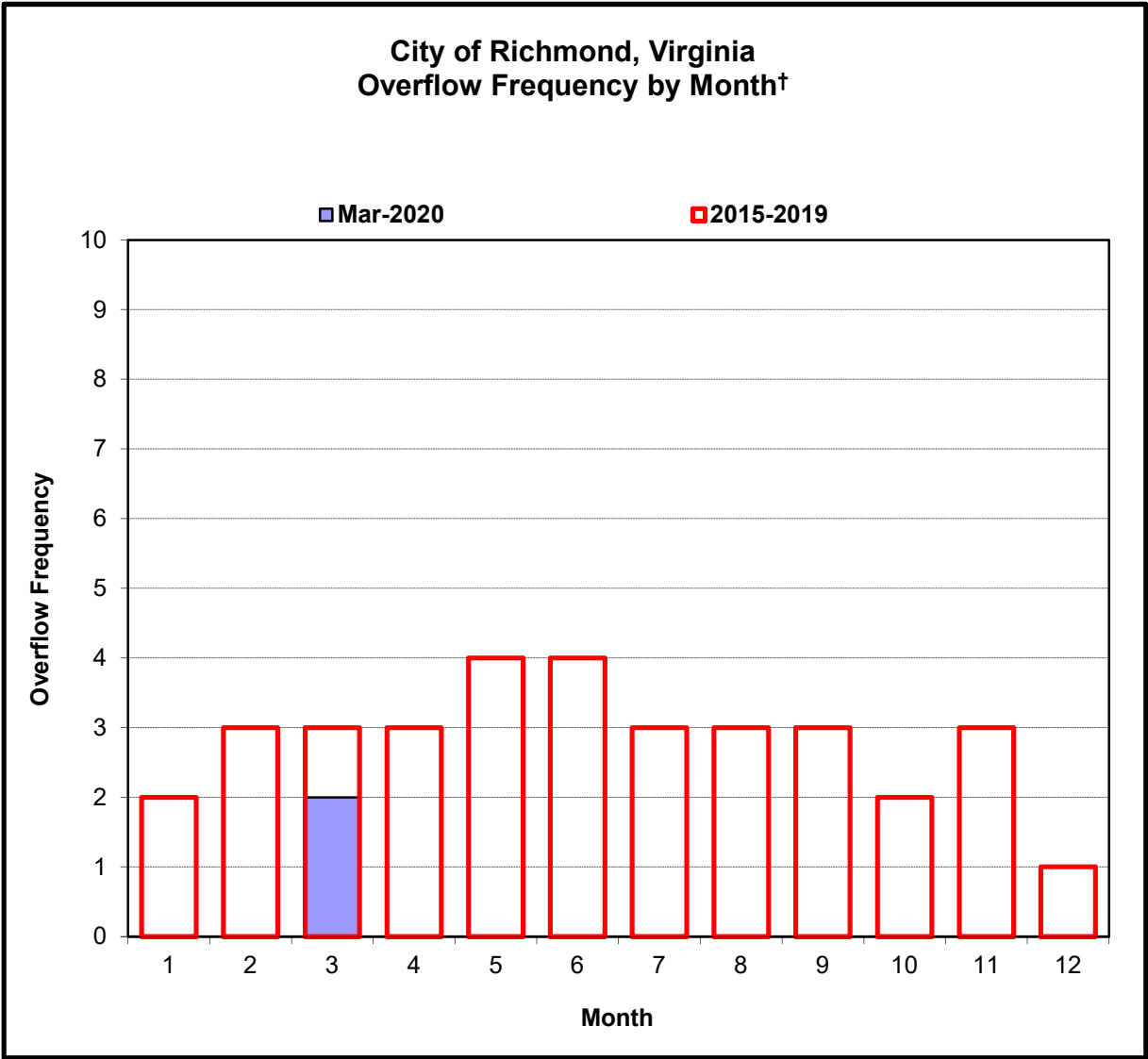
**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	2.68	13.75	0.96	49.20	18.92

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

<sup>†</sup> Permitted discharge when the capacity of CSO retention facilities are fully utilized.

### City of Richmond, Virginia Overflow Frequency by Month†



† Permitted discharge when the capacity of CSO retention facilities are fully utilized per SOP.



**CSO07 - Byrd  
 Overflow Model Summary  
 Current Month:    March    2020**

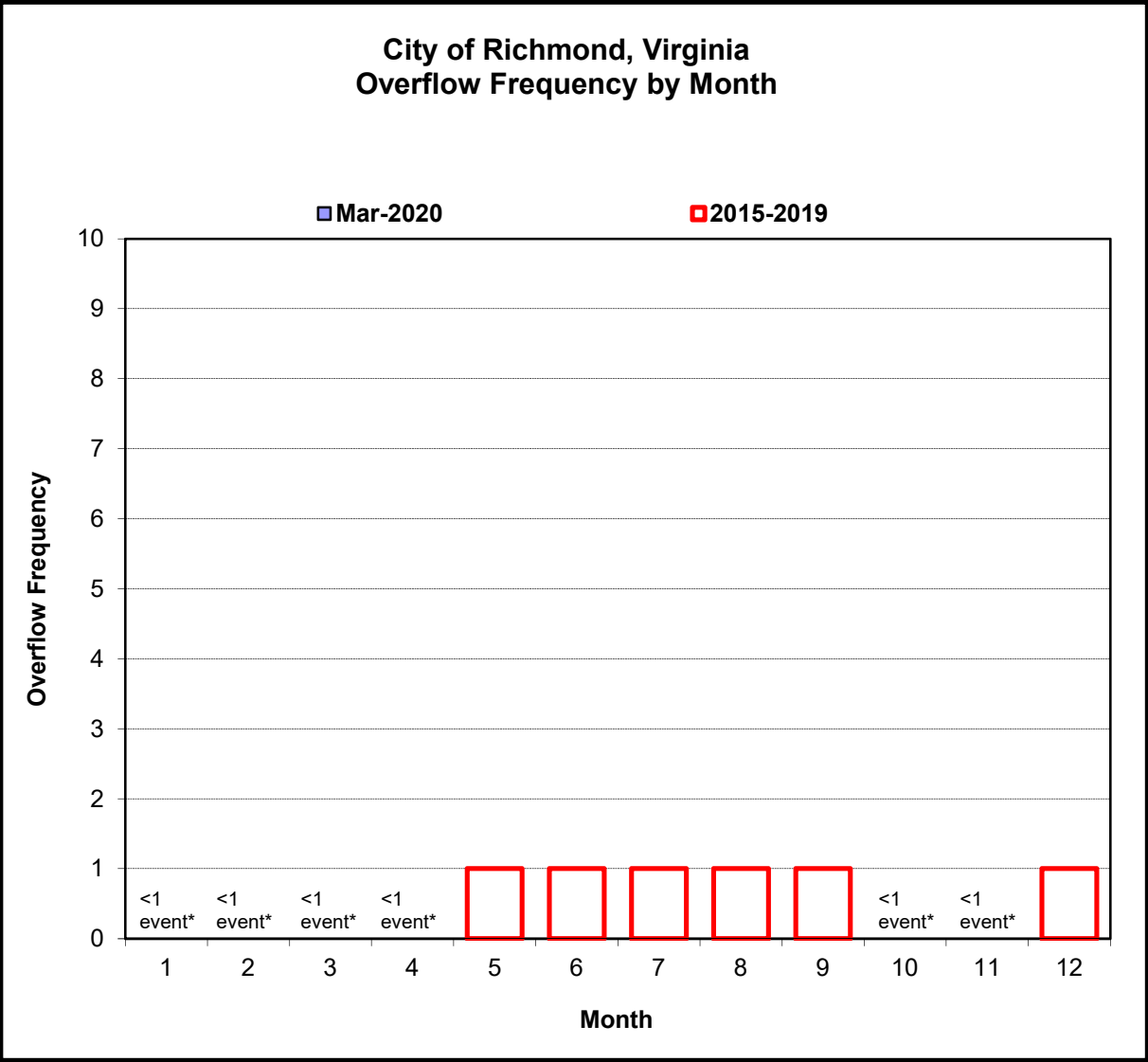
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO09 - 7th Street  
 Overflow Model Summary  
 Current Month:    March    2020**

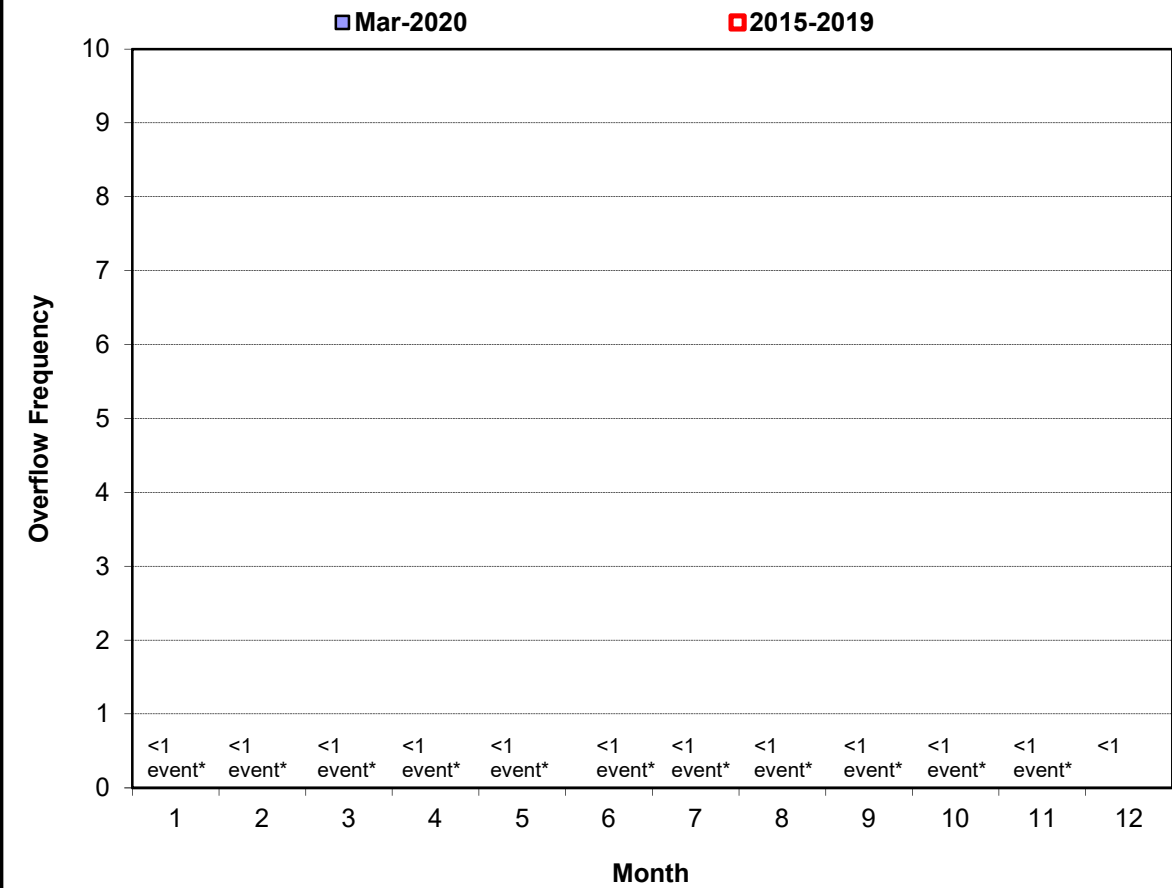
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO10 - Gambles Hill  
 Overflow Model Summary  
 Current Month:    March    2020**

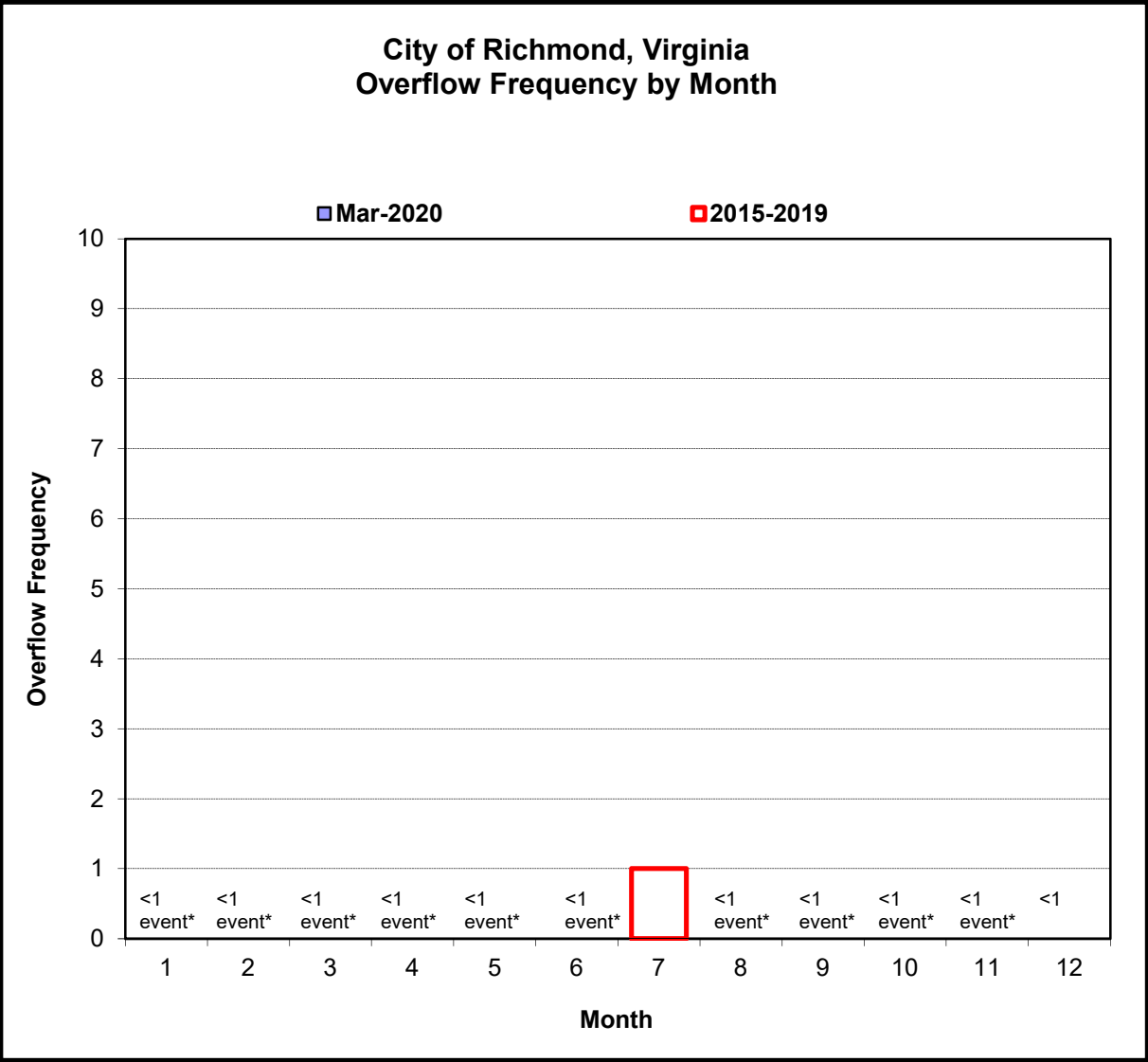
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO11 - Park Hydro  
Overflow Model Summary  
Current Month:    March    2020**

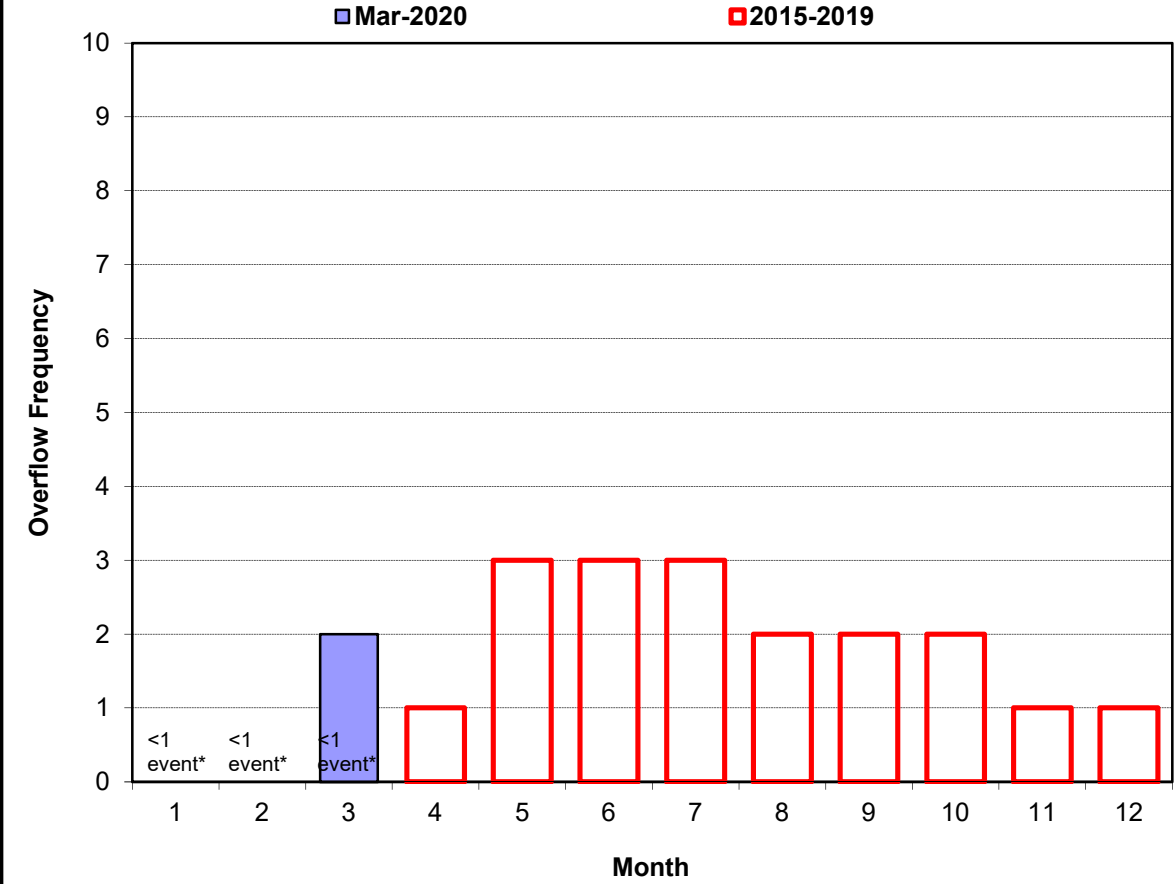
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20	1	0.80	3.42	0.60	4	1.92
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20	1	0.50	2.75	0.36	0.43	1.25

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	2.68	13.75	0.96	4.50	3.17

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.



**CSO12 - Hilton Street  
Overflow Model Summary  
Current Month: March 2020**

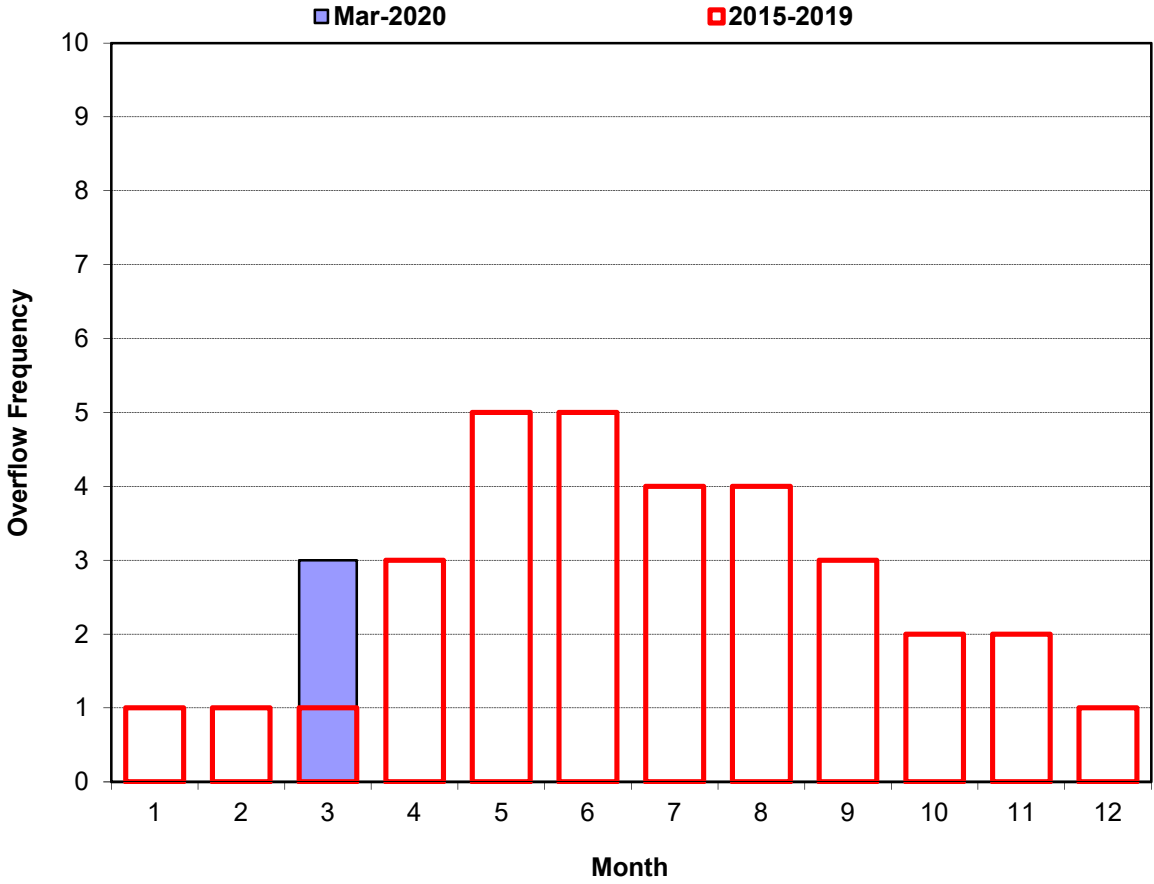
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20	1	0.80	3.42	0.60	0.09	1.25
3/24/20						
3/25/20	1	0.76	4.33	0.36	0.04	1.25
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20	1	0.50	2.75	0.36	0.01	0.42

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
3	2.68	13.75	0.96	0.13	2.92

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



**CSO14 - Stockton  
Overflow Model Summary  
Current Month: March 2020**

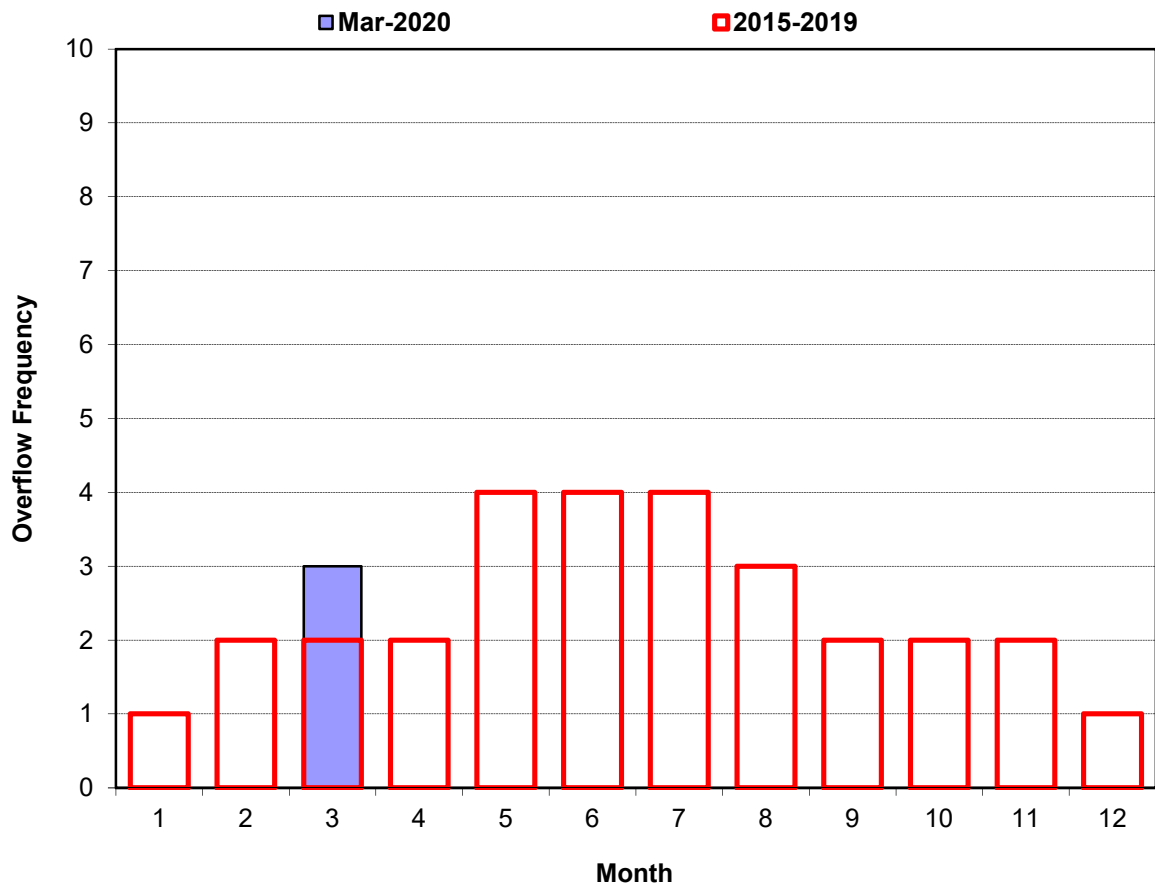
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20	1	0.80	3.42	0.60	0.69	1.17
3/24/20						
3/25/20	1	0.76	4.33	0.36	0.03	0.25
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20	1	0.50	2.75	0.36	0.05	0.33

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
3	2.68	13.75	0.96	0.76	1.75

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



**CSO15 - Canoe Run  
Overflow Model Summary  
Current Month:    March    2020**

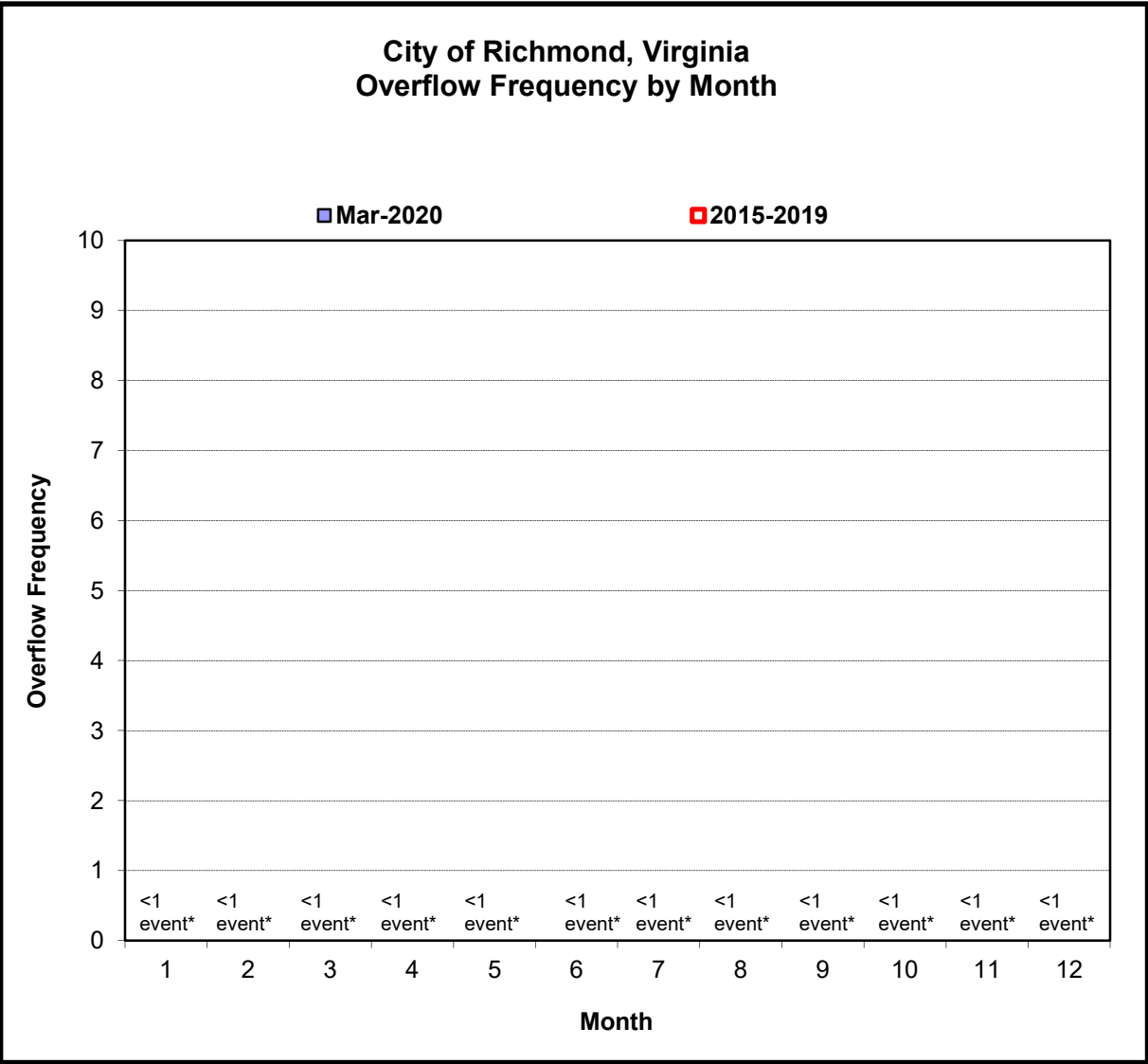
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO16 - Woodland  
Overflow Model Summary  
Current Month:    March    2020**

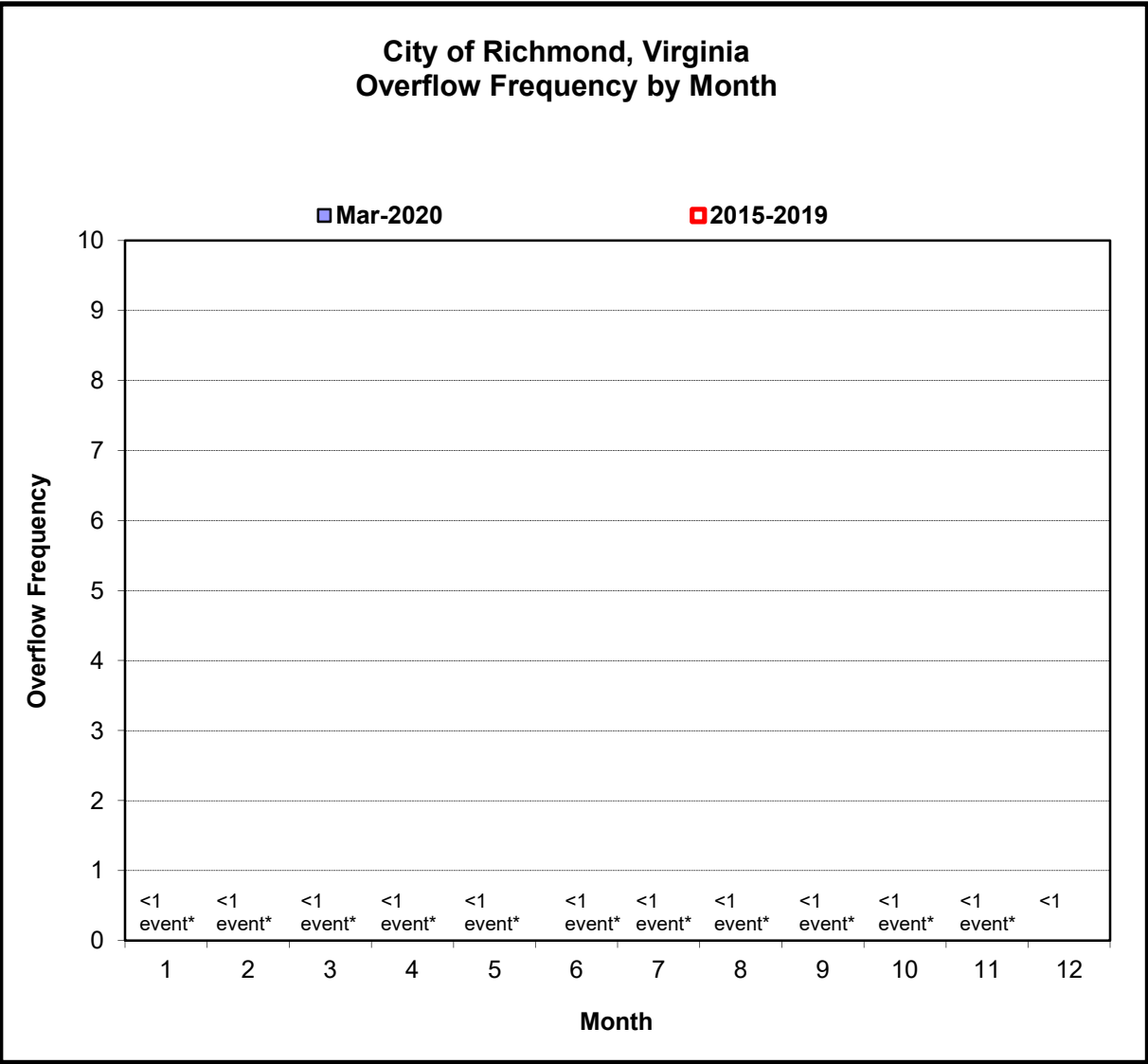
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.



**CSO17 - Reedy Creek  
Overflow Model Summary  
Current Month:    March    2020**

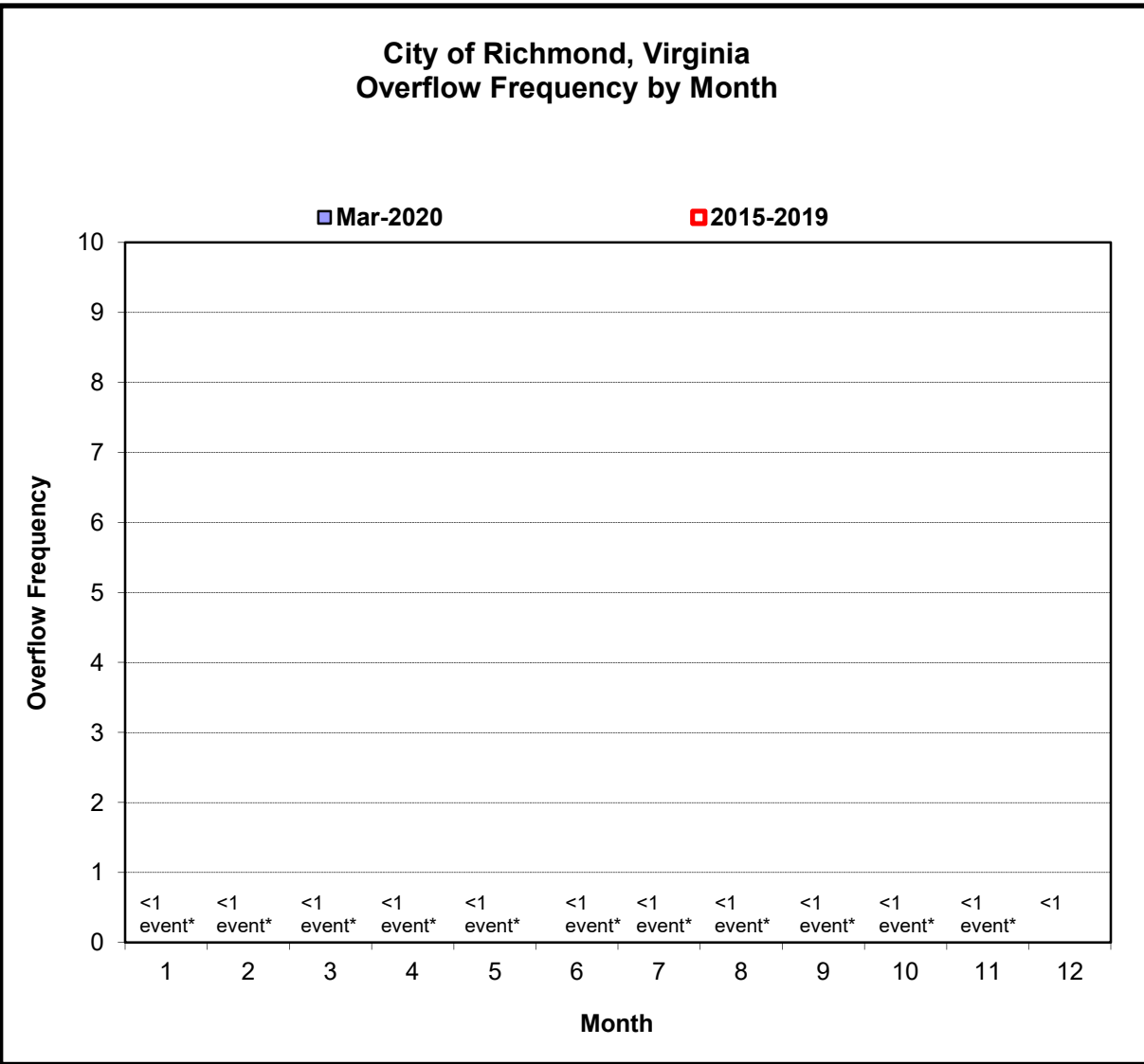
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO18 - 42nd Street  
 Overflow Model Summary  
 Current Month:    March    2020**

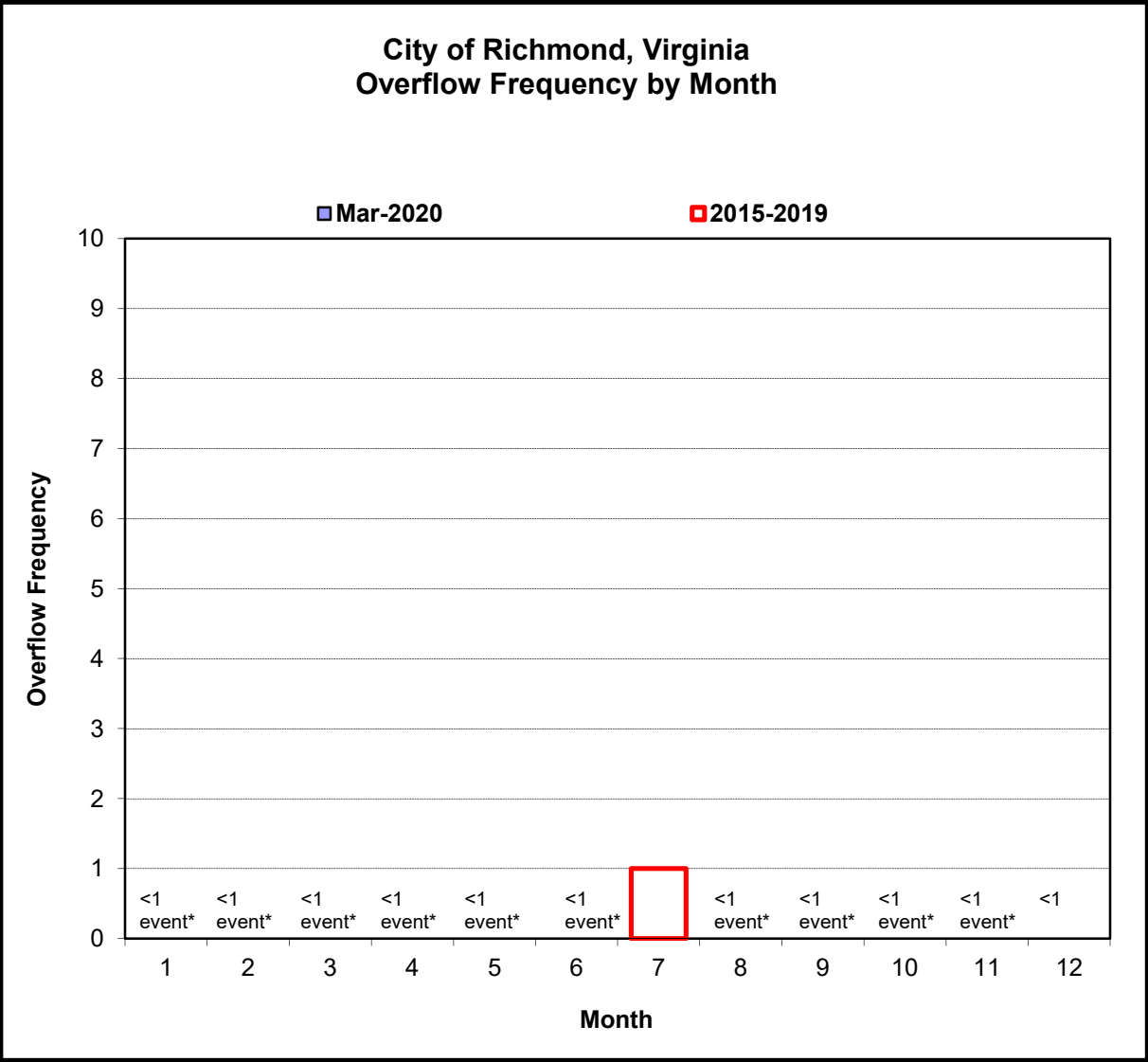
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO19 - Hampton  
 Overflow Model Summary  
 Current Month:    March    2020**

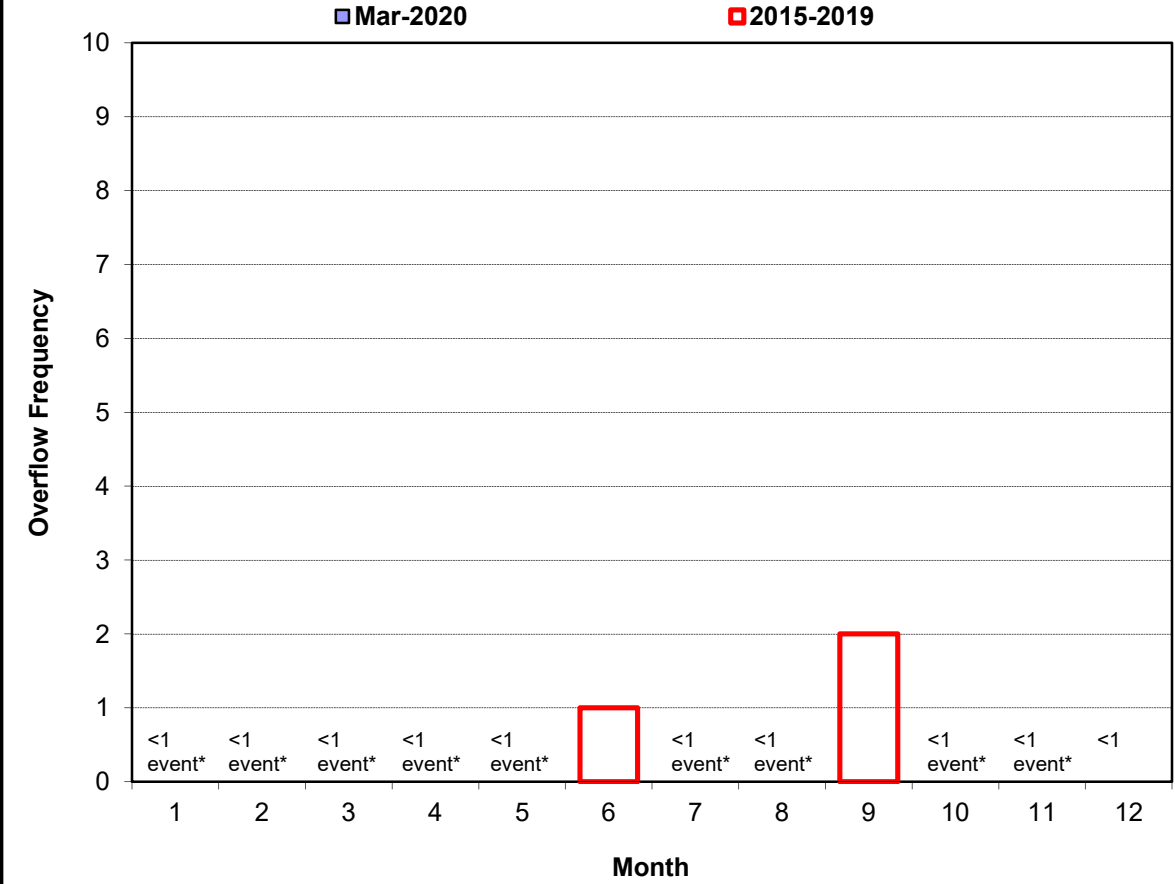
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.200	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO20 - Mc Cloy  
Overflow Model Summary  
Current Month:    March    2020**

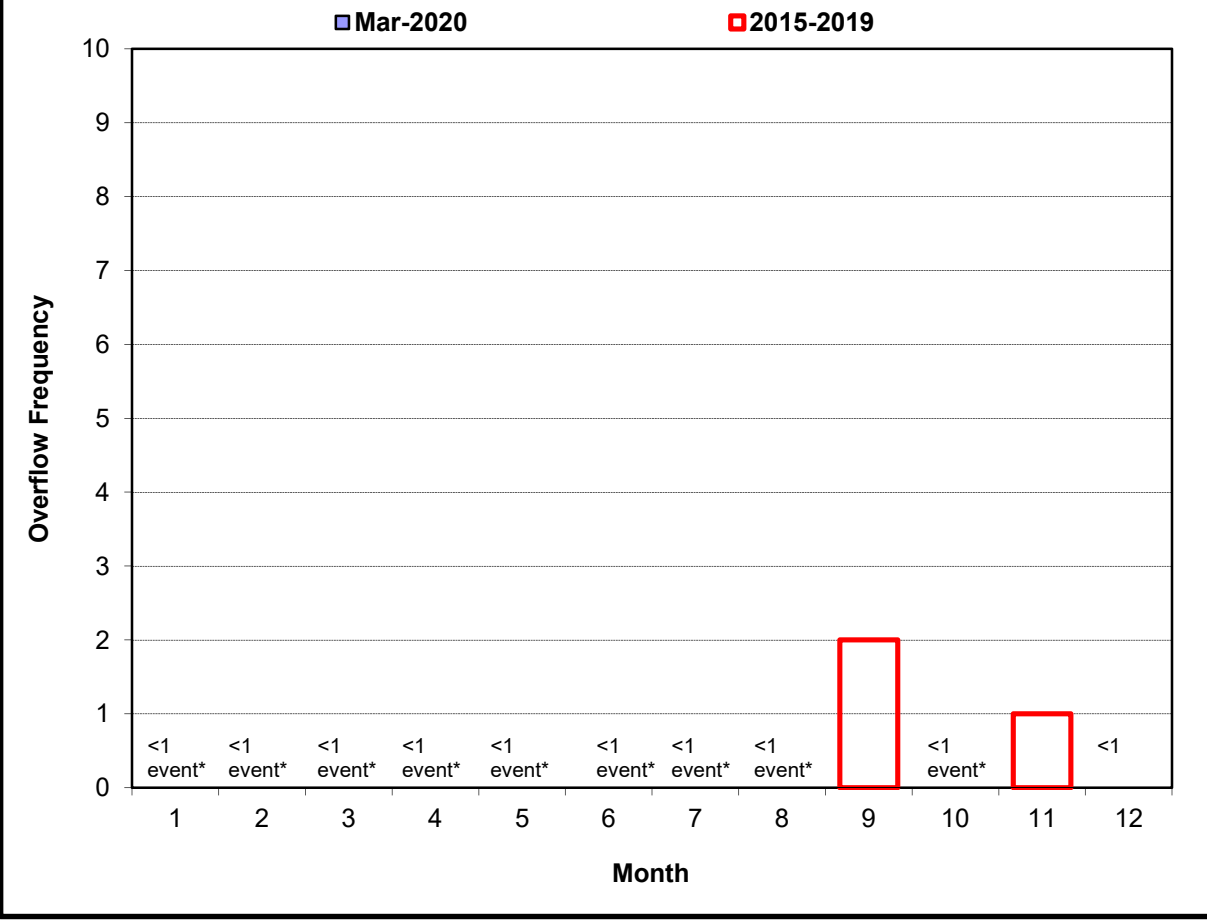
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.



**CSO21 - Gordon Ave  
 Overflow Model Summary  
 Current Month:    March    2020**

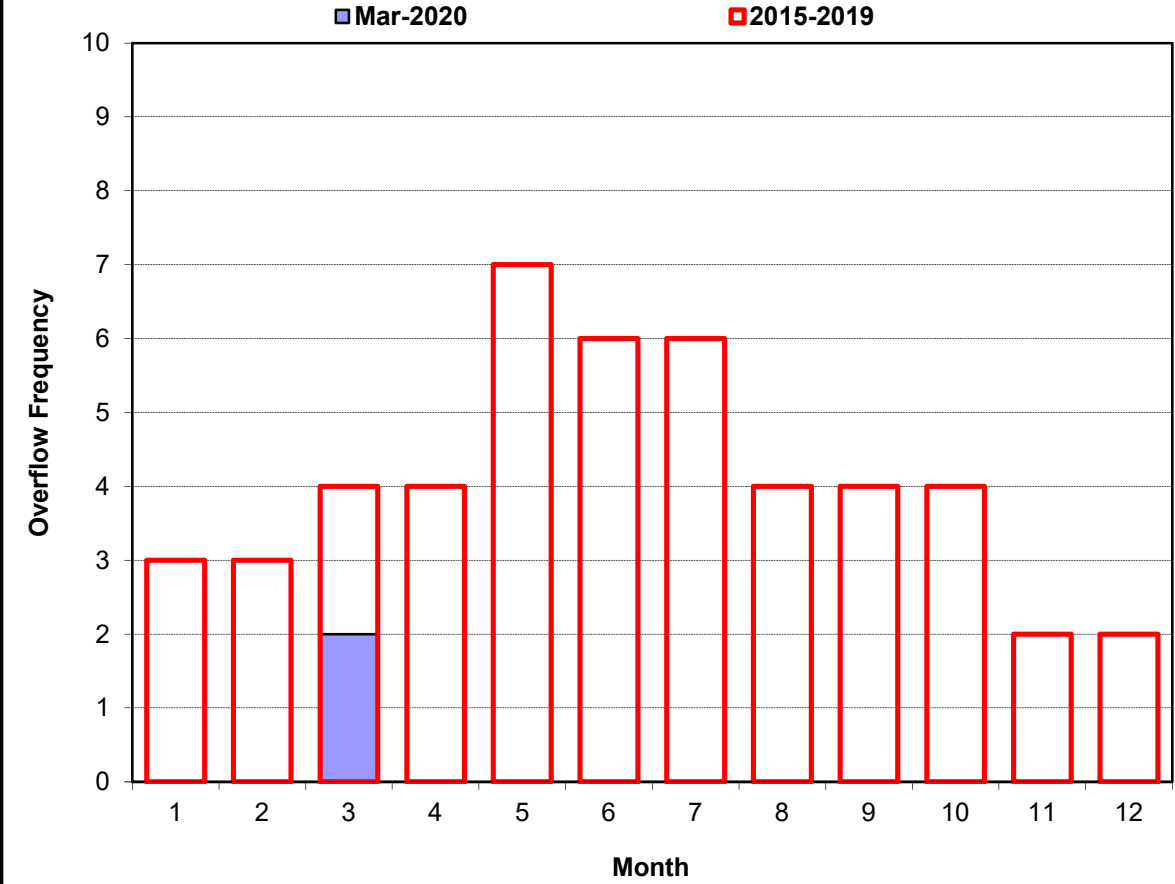
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20	1	0.80	3.42	0.60	0.18	4.67
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20	1	0.50	2.75	0.36	0.03	0.08

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	2.68	13.75	0.96	0.21	4.75

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



**CSO24 - Gillies & Varina  
 Overflow Model Summary  
 Current Month:    March    2020**

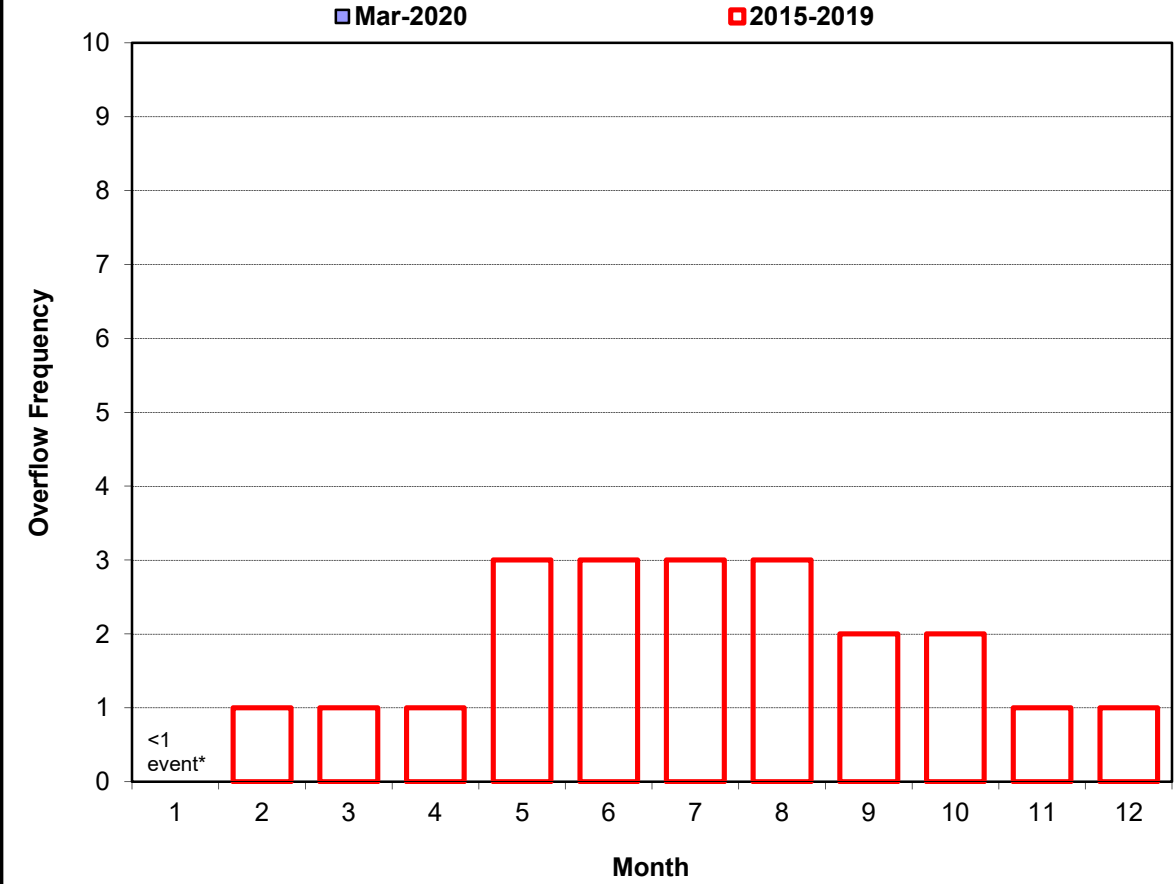
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO25 - Briel & Gillies Cr  
 Overflow Model Summary  
 Current Month:    March    2020**

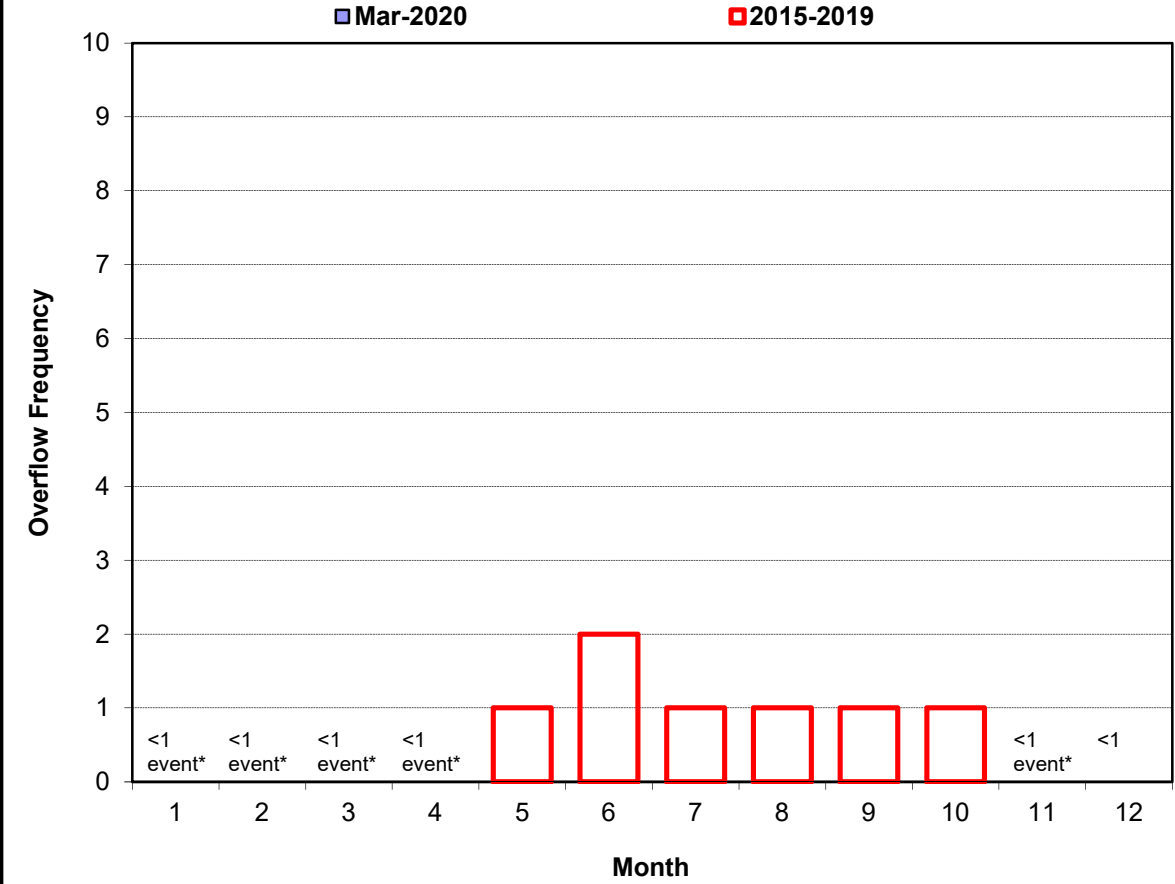
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO26 - Govt Road & NSRR  
 Overflow Model Summary  
 Current Month:    March    2020**

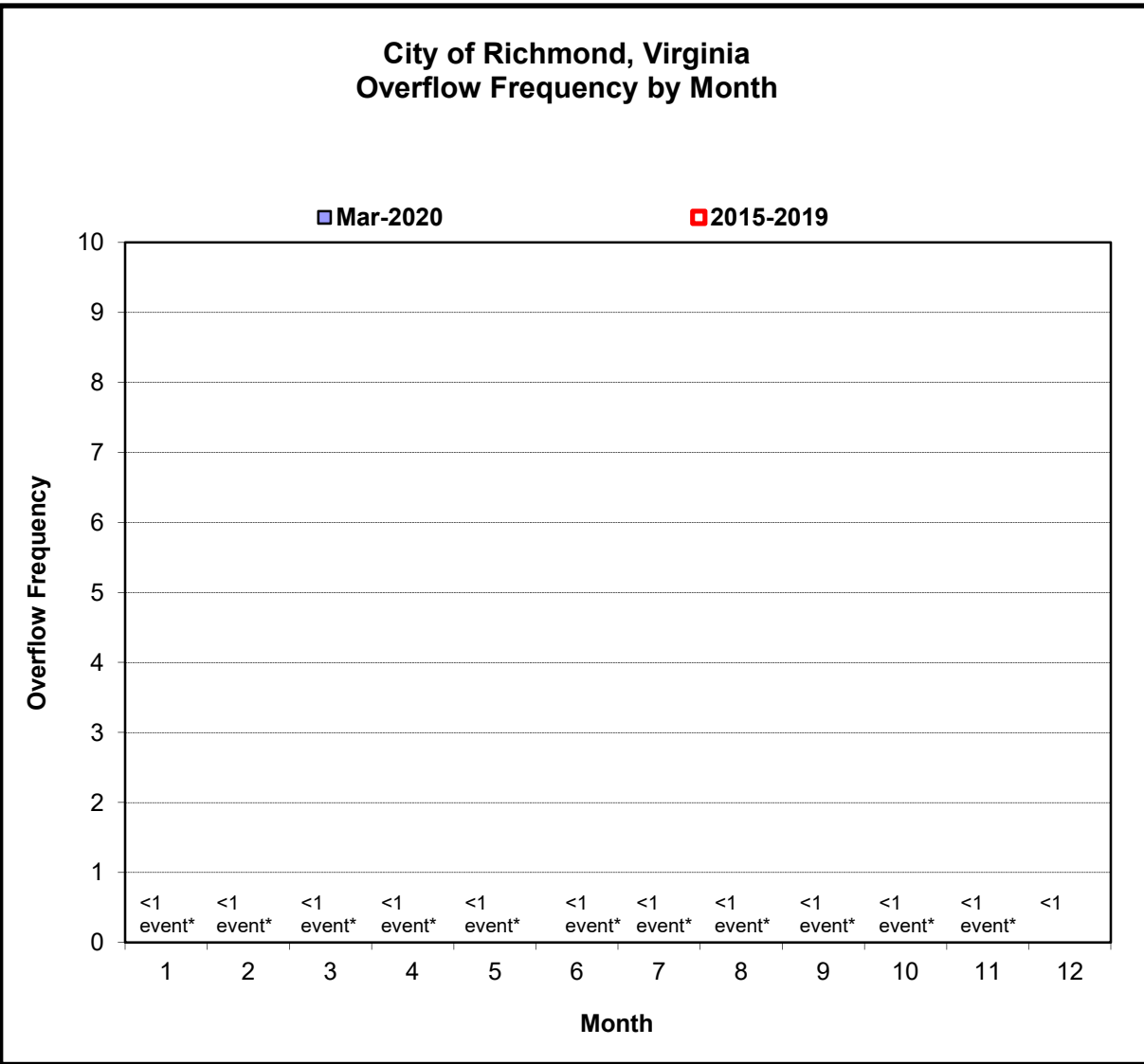
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.



**CSO31 - Oakwood Cem  
Overflow Model Summary  
Current Month:    March    2020**

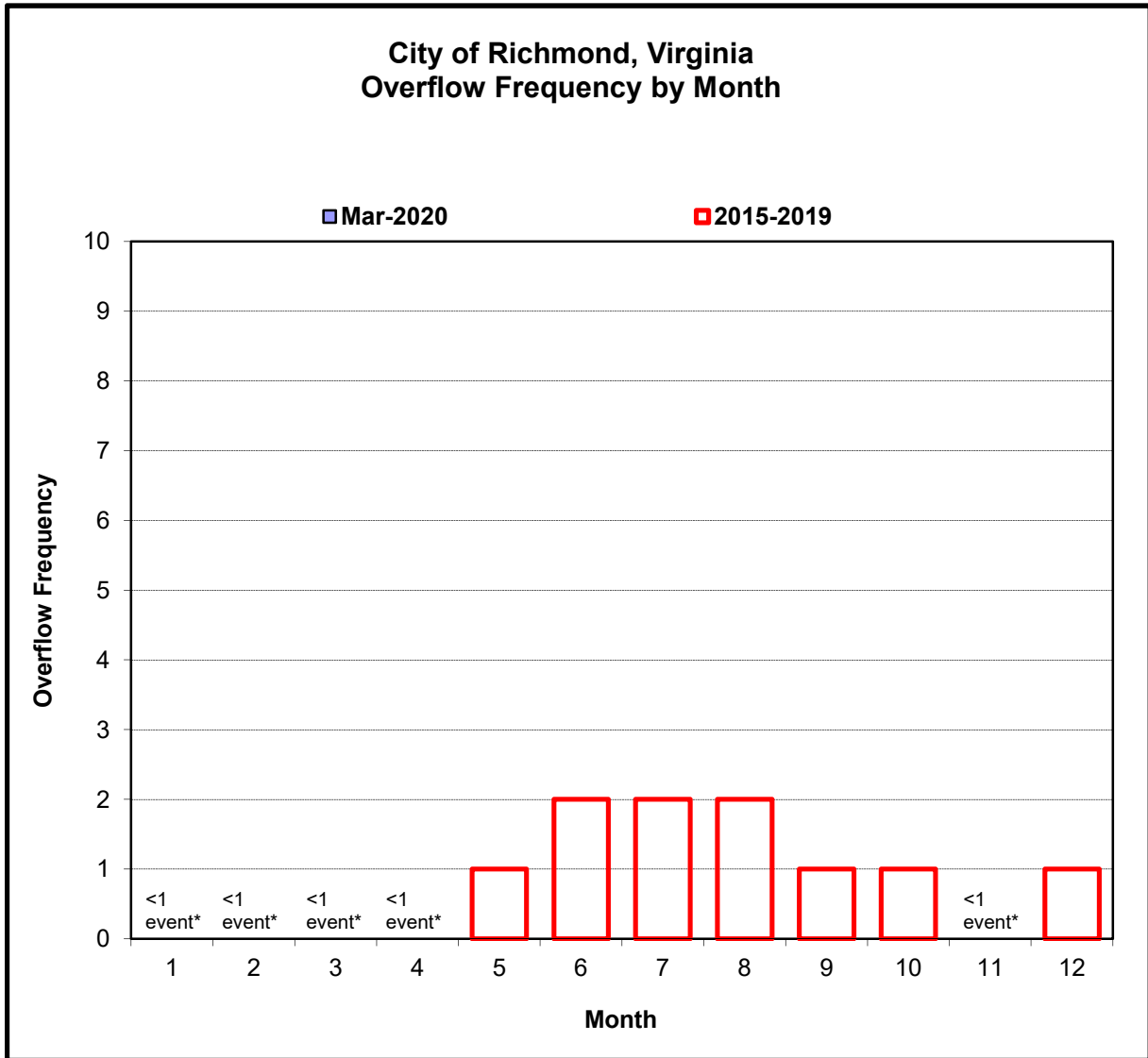
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO33 - Shields Lake  
 Overflow Model Summary  
 Current Month:    March    2020**

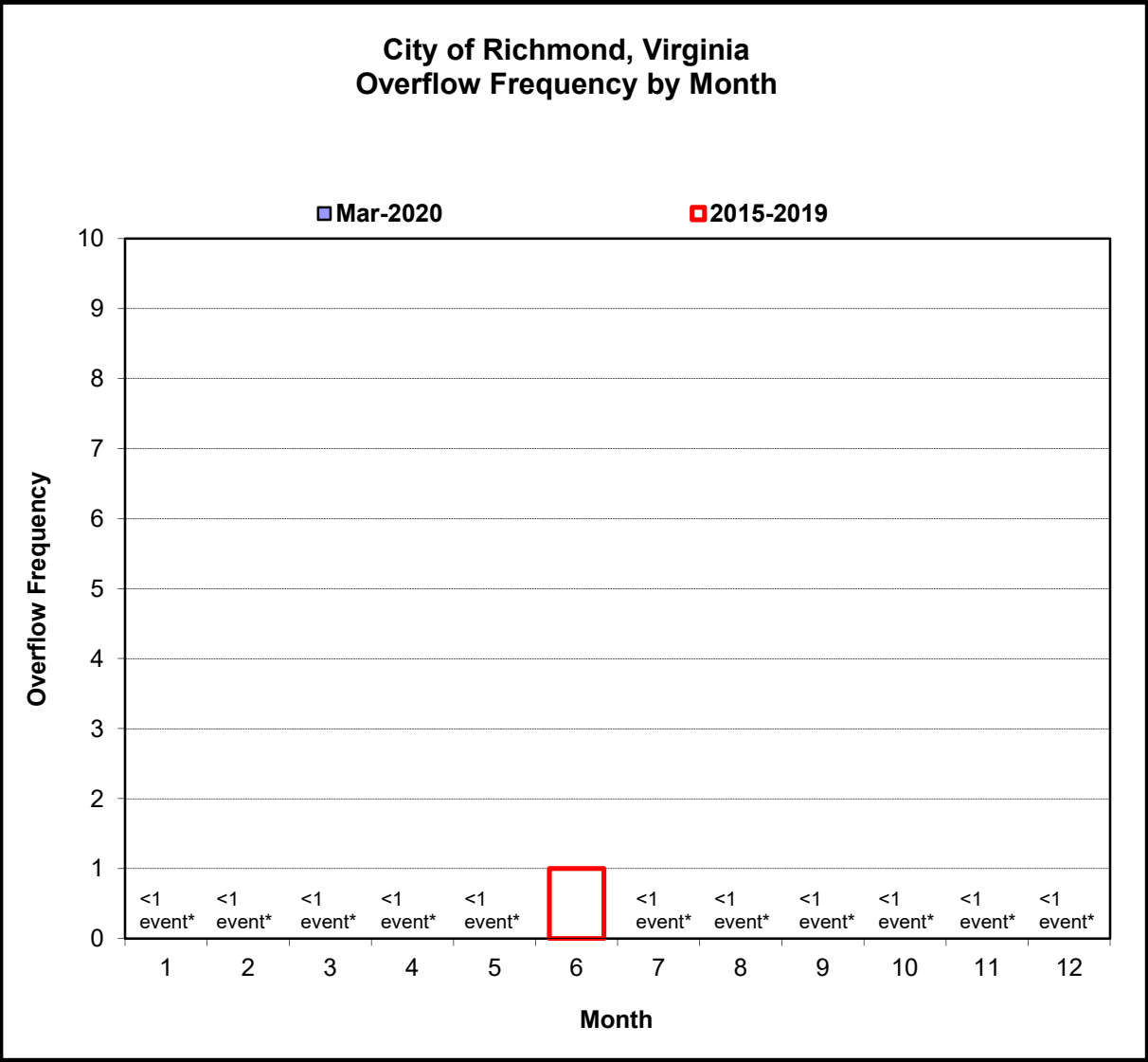
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO34 - 19th & Dock  
Overflow Model Summary  
Current Month:    March    2020**

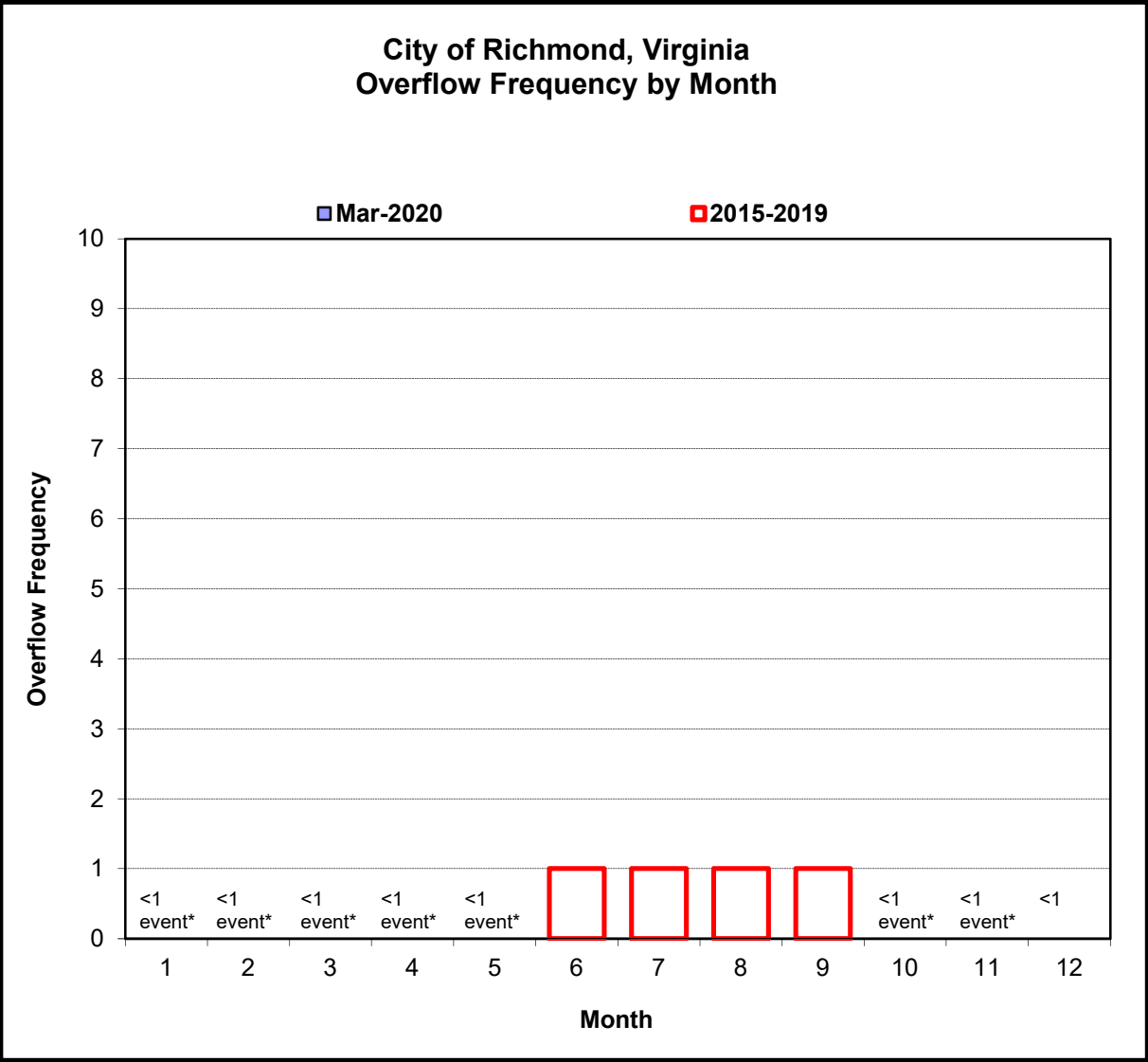
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.

**CSO35 - 29th & Dock  
 Overflow Model Summary  
 Current Month:    March    2020**

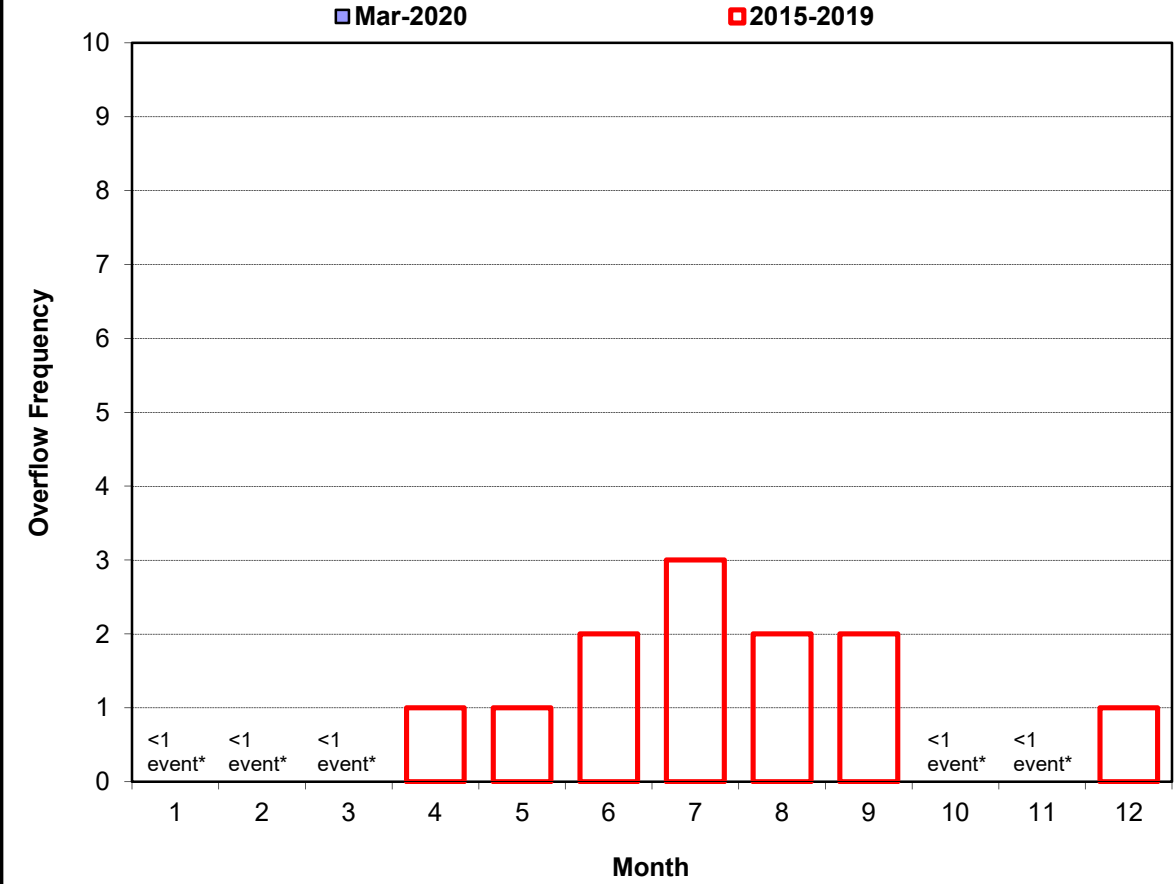
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20		0.80	3.42	0.60		
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	2.68	13.75	0.96	0.00	0.00

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



\* Average Overflow Frequency is less than once in the month.



**CSO39 - Govt Road & Gillies  
 Overflow Model Summary  
 Current Month:    March    2020**

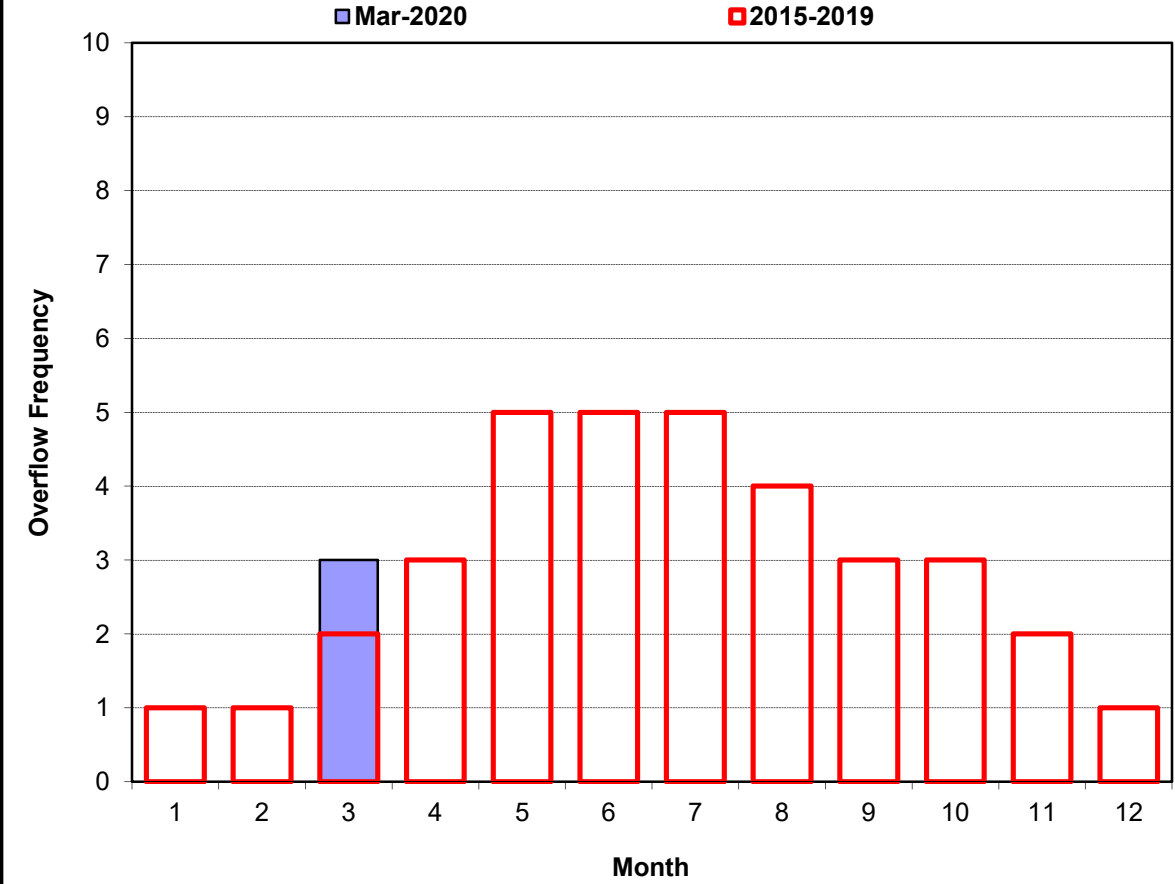
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20	1	0.80	3.42	0.60	0.09	1.00
3/24/20						
3/25/20	1	0.76	4.33	0.36	0.03	0.58
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20	1	0.50	2.75	0.36	0.006	0.25

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
3	2.68	13.75	0.96	0.13	1.83

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month



**CSO40 - Diff User**  
**Overflow Model Summary**  
**Current Month: March 2020**

Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
3/1/20						
3/2/20						
3/3/20						
3/4/20						
3/5/20						
3/6/20		0.04	0.17	0.36		
3/7/20						
3/8/20						
3/9/20						
3/10/20						
3/11/20						
3/12/20						
3/13/20		0.15	0.58	0.96		
3/14/20						
3/15/20						
3/16/20						
3/17/20						
3/18/20						
3/19/20		0.20	1.25	0.36		
3/20/20						
3/21/20		0.22	1.17	0.36		
3/22/20						
3/23/20	1	0.80	3.42	0.60	0.18	1.08
3/24/20						
3/25/20		0.76	4.33	0.36		
3/26/20						
3/27/20		0.01	0.08	0.12		
3/28/20						
3/29/20						
3/30/20						
3/31/20		0.50	2.75	0.36		

**MONTH SUMMARY**

Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
1	2.68	13.75	0.96	0.18	1.08

<sup>(1)</sup> Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

### City of Richmond, Virginia Overflow Frequency by Month

