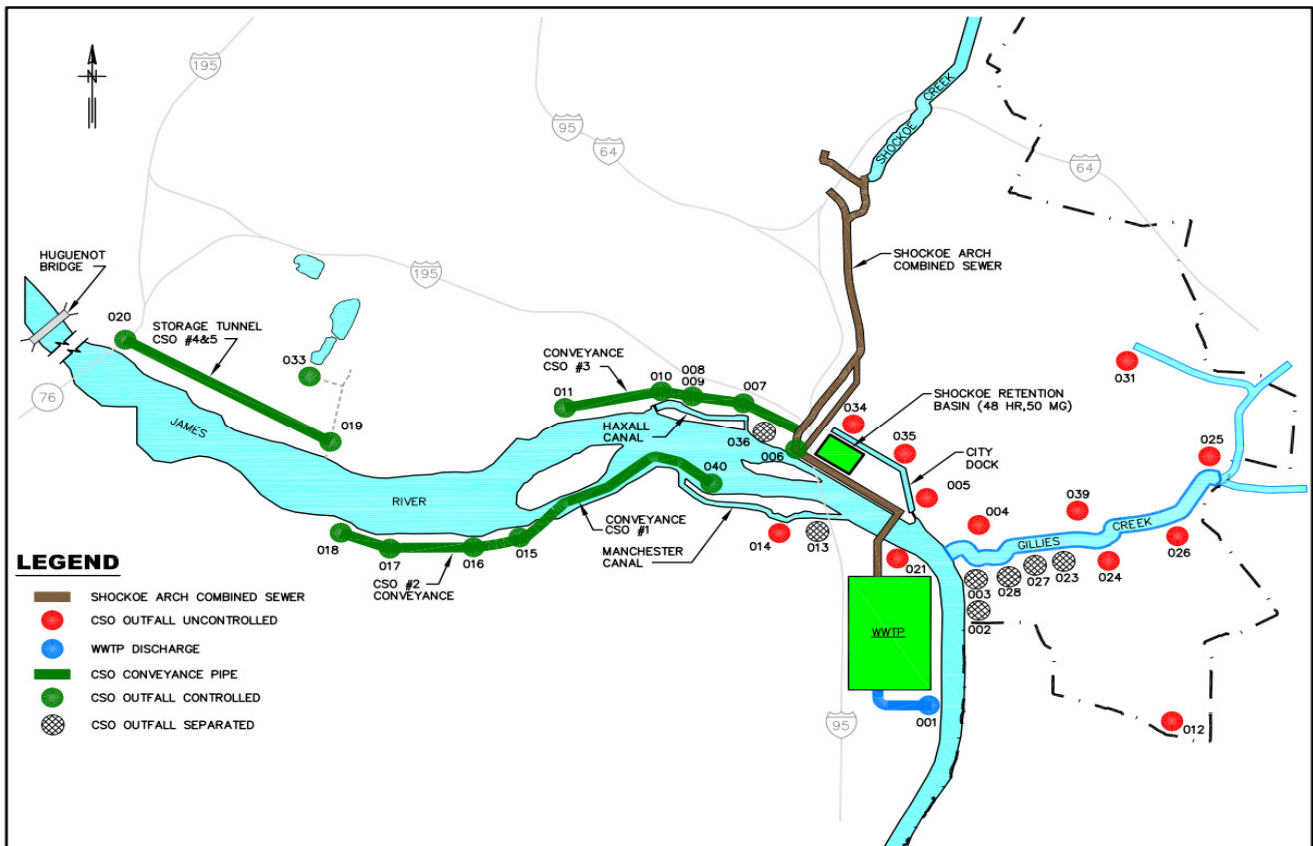


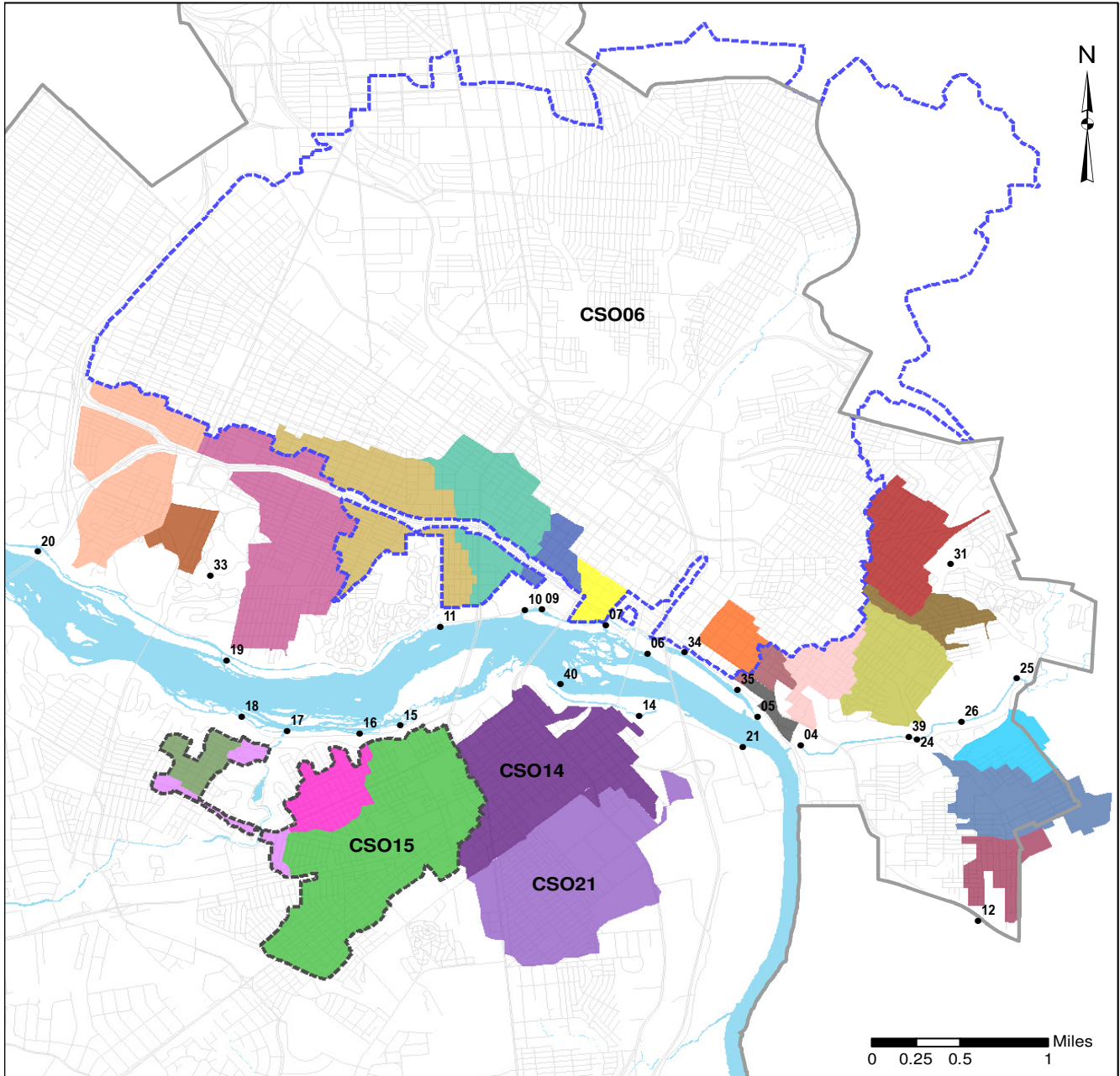
CITY OF RICHMOND, VIRGINIA  
DEPARTMENT OF PUBLIC UTILITIES

Combined Sewer Overflow Monthly Report

October, 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: October 2020**

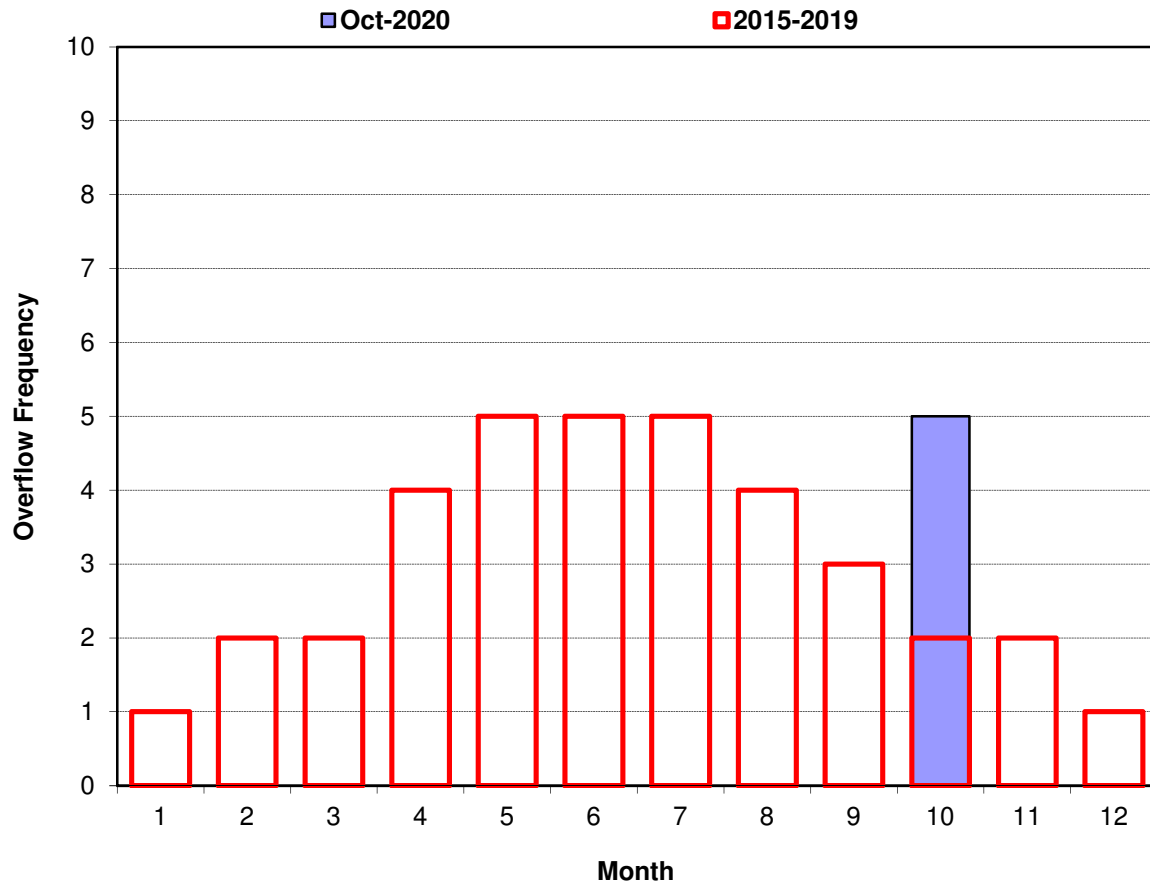
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	0.38	2.83
10/13/20						
10/14/20						
10/15/20						
10/16/20	1	1.15	4.75	0.84	0.04	0.67
10/17/20	1				0.001	0.08
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20	1	0.36	1.50	1.08	0.01	0.33
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20	1	0.40	1.75	1.28	0.11	1.58
10/31/20						

**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)
5	5.62	21.33	2.00	0.550	5.50

<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: October 2020**

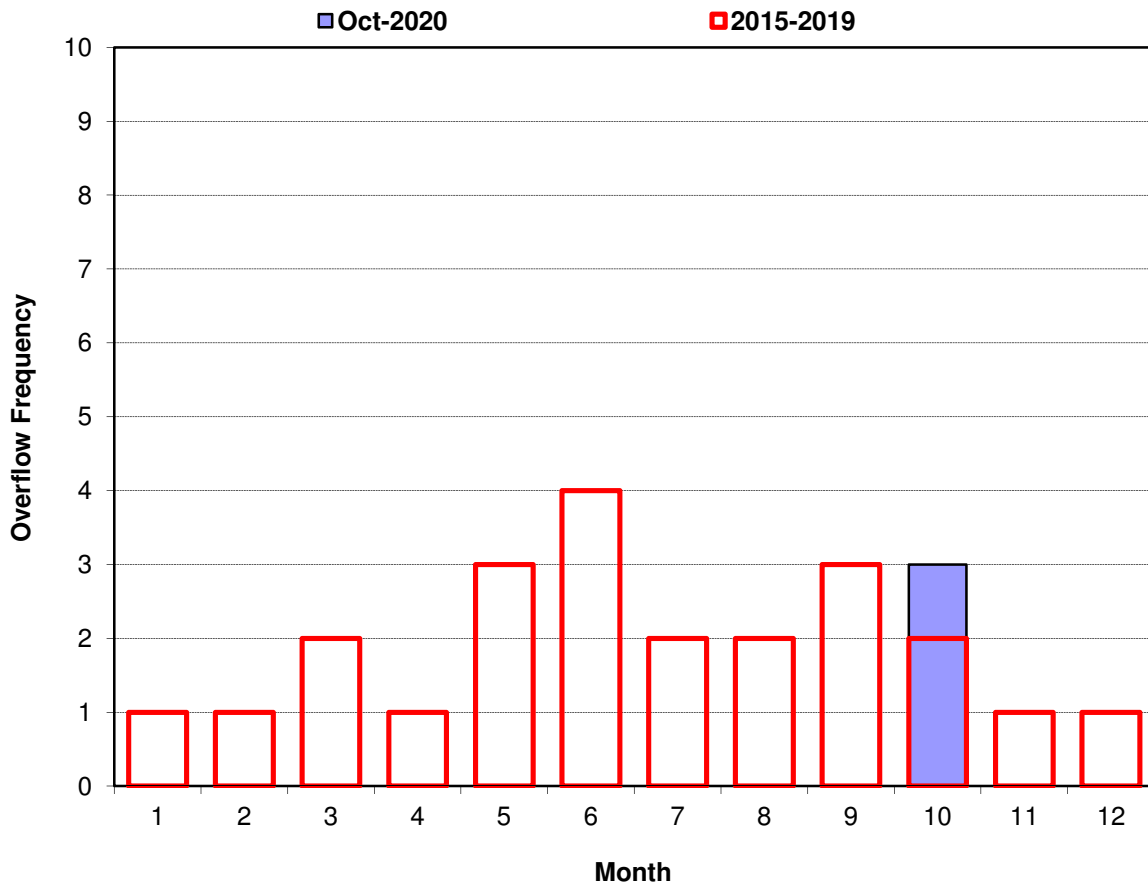
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	0.53	4.67
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20	1				0.005	0.42
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20	1	0.40	1.75	1.28	0.14	1.58
10/31/20						

**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	5.62	21.33	2.00	0.680	6.67

<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:    October    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)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.43	3.11	0.36		
10/11/20		0.94	4.31	0.72		
10/12/20	1	1.20	3.25	1.32	158	17.67
10/13/20						
10/14/20						
10/15/20						
10/16/20	1 <sup>(3)</sup>	1.15	4.75	0.84	20.6	3.25
10/17/20					41.1	5.00
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20	1 <sup>(3)</sup>	1.00	2.17	2.00	0.2	0.17
10/30/20		0.40	1.75	1.28	74.9	11.17
10/31/20						

**MONTH SUMMARY**

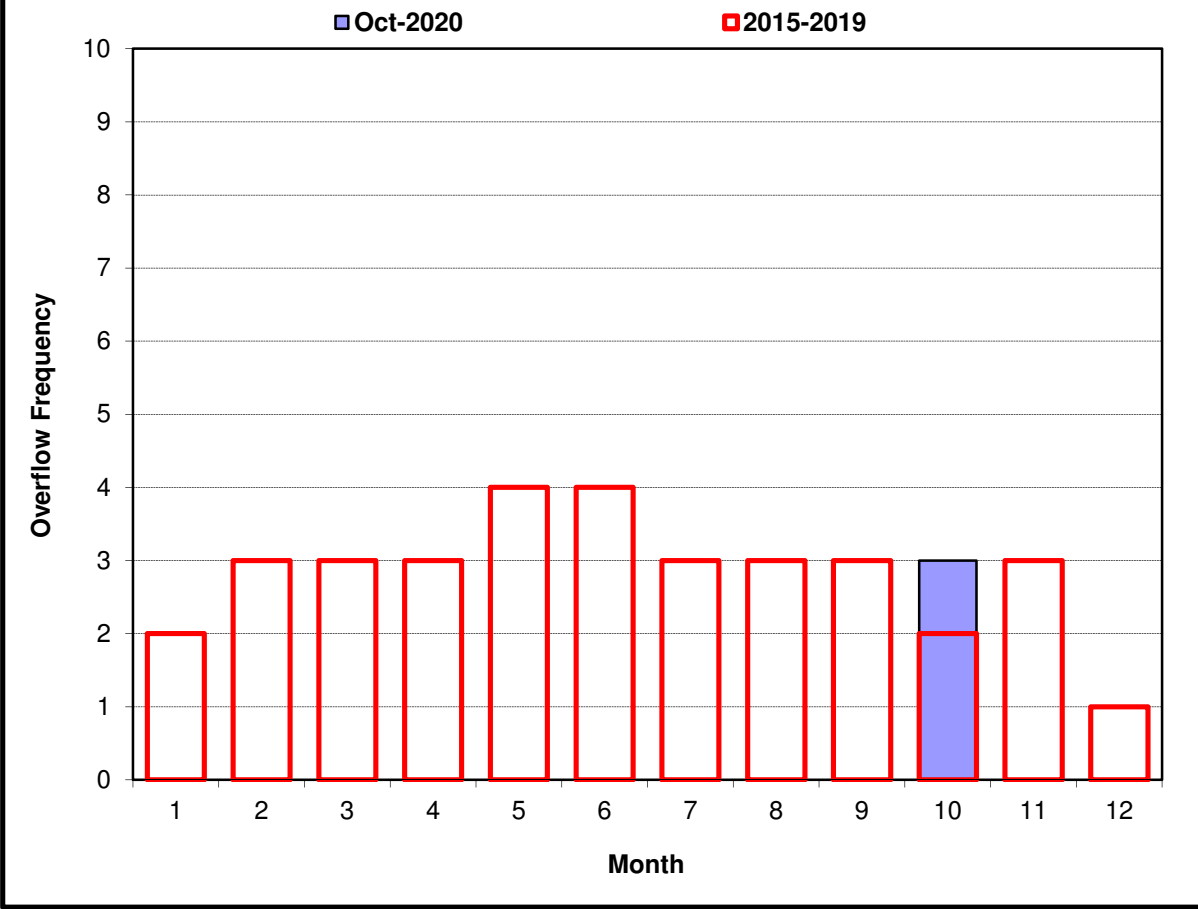
Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
3	5.62	21.33	2.00	295.000	37.25

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

<sup>†</sup> Overflow occurred after the Shockoe Retention Basin was full.

<sup>(3)</sup> Overflow event continued on the following day.

### City of Richmond, Virginia Overflow Frequency by Month<sup>†</sup>



<sup>†</sup> Overflow occurred after the Shockoe Retention Basin was full.



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

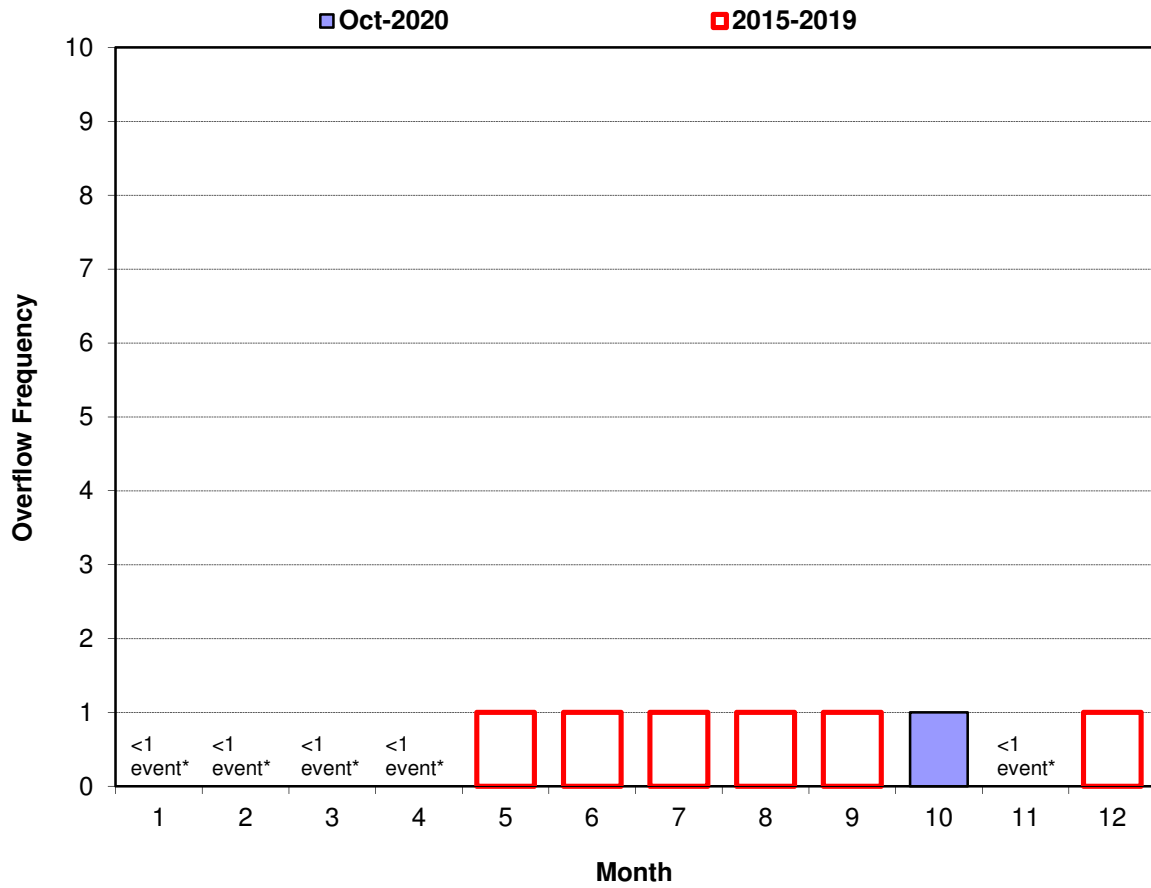
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	0.007	0.25
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.007	0.25

<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:   October   2020**

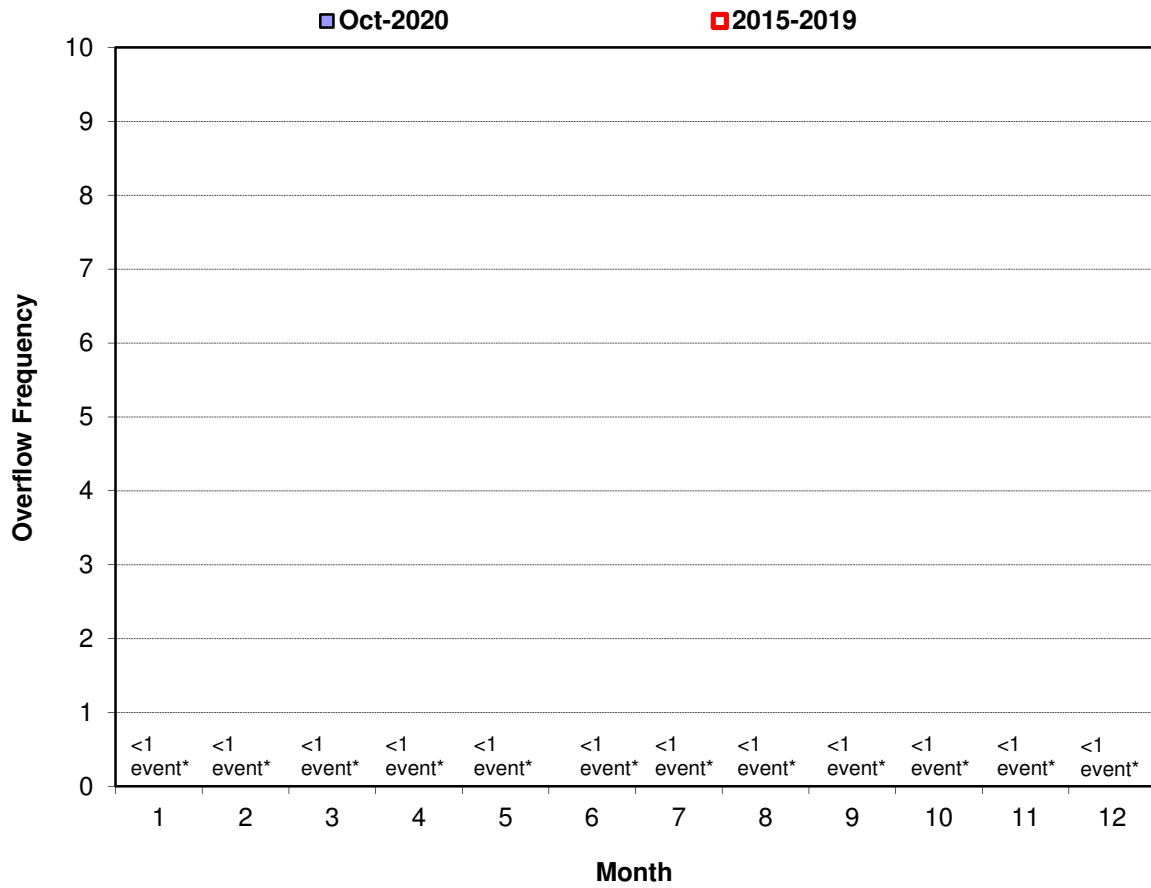
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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:   October   2020**

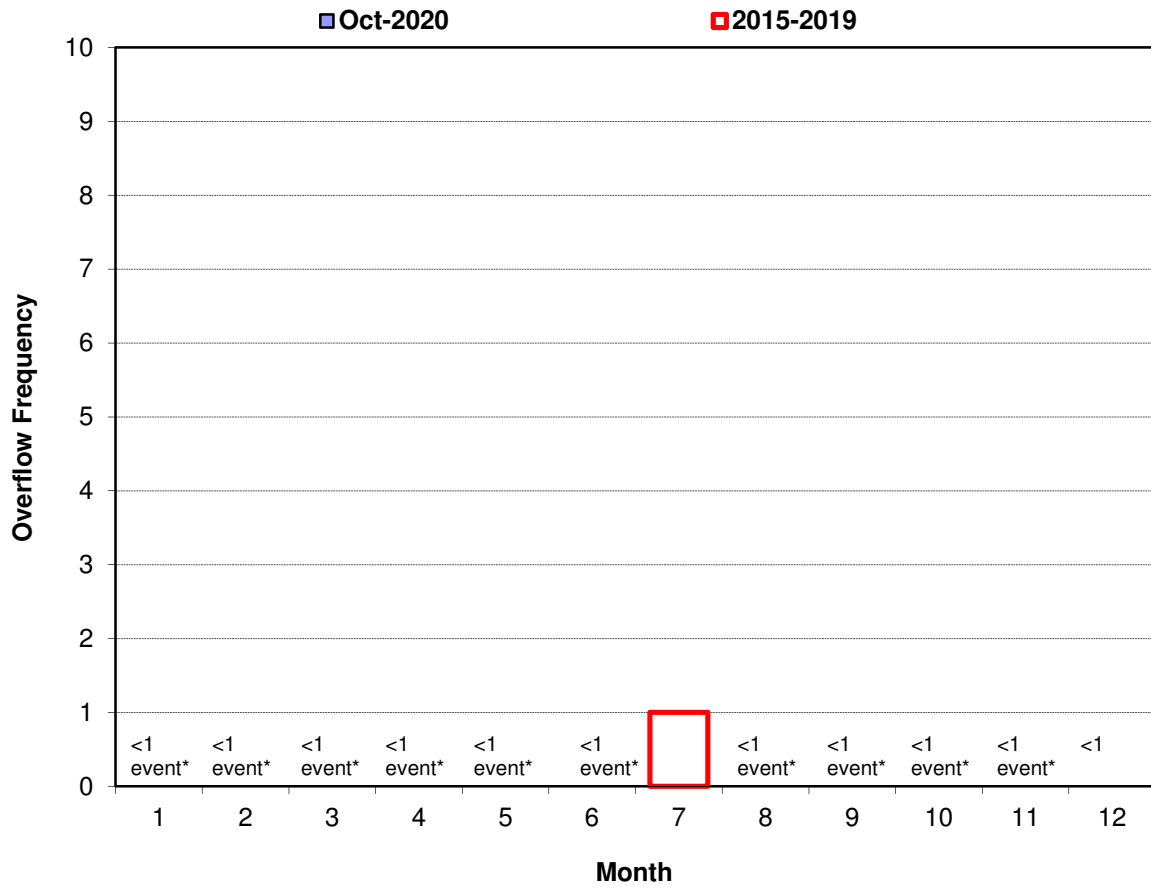
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.43	3.08	0.36		
10/11/20		0.95	4.33	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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:   October   2020**

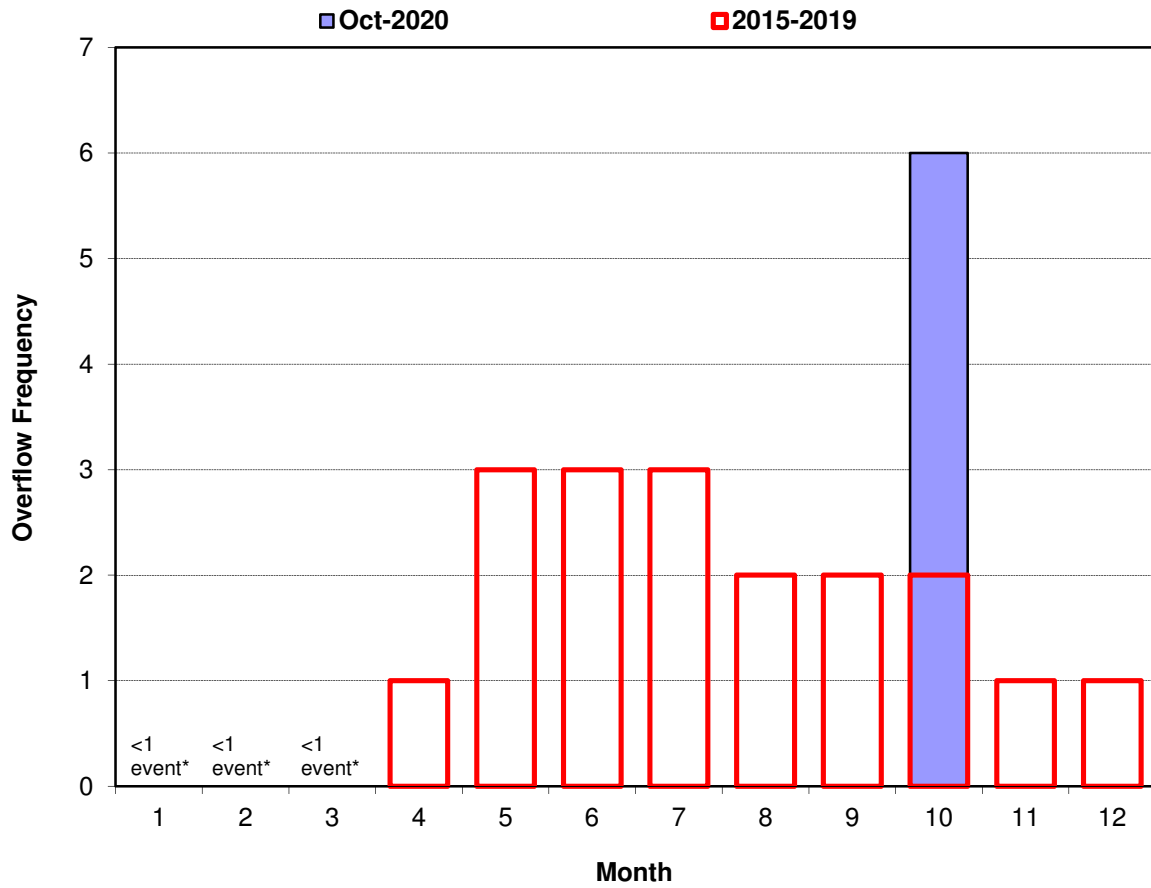
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	5.3	3.42
10/13/20						
10/14/20						
10/15/20						
10/16/20	1	1.15	4.75	0.84	2.5	1.08
10/17/20	1				0.02	0.17
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20	1	0.36	1.50	1.08	0.11	0.50
10/26/20						
10/27/20						
10/28/20						
10/29/20	1	1.00	2.17	2.00	0.006	0.08
10/30/20	1	0.40	1.75	1.28	4	1.75
10/31/20						

**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)
6	5.62	21.33	2.00	11.900	7.00

<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.



**CSO12 - Hilton Street  
Overflow Model Summary  
Current Month:   October   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)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	0.35	3.25
10/13/20						
10/14/20						
10/15/20						
10/16/20	1 <sup>(3)</sup>	1.15	4.75	0.84	0.07	1.42
10/17/20					0.06	1.58
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20	1	0.40	1.75	1.28	0.15	2.42
10/31/20						

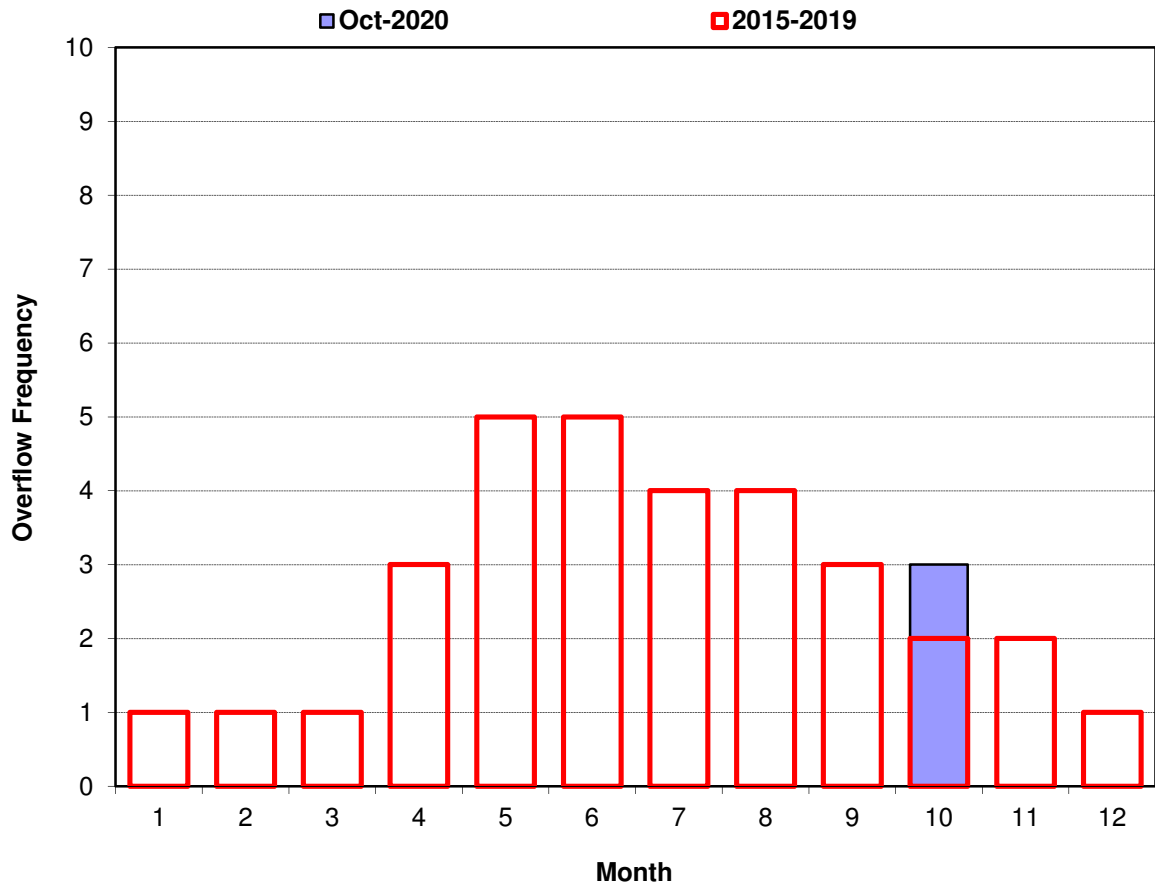
**MONTH SUMMARY**

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	5.62	21.33	2.00	0.630	8.67

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

<sup>(3)</sup> Overflow event continued on the following day.

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



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

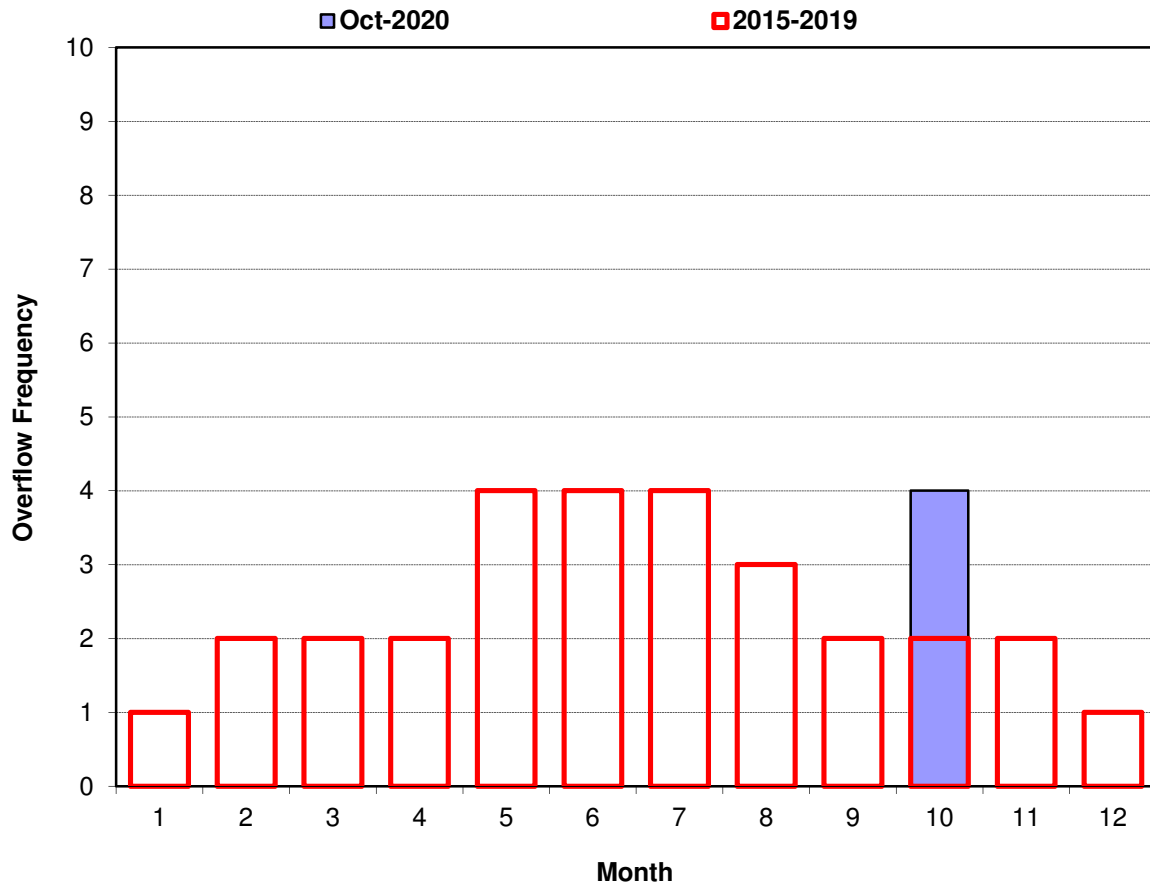
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	3.2	4.00
10/13/20						
10/14/20						
10/15/20						
10/16/20	1	1.15	4.75	0.84	0.38	0.67
10/17/20	1				0.19	0.92
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20	1	0.40	1.75	1.28	1.4	2.75
10/31/20						

**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)
4	5.62	21.33	2.00	5.100	8.33

<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:   October   2020**

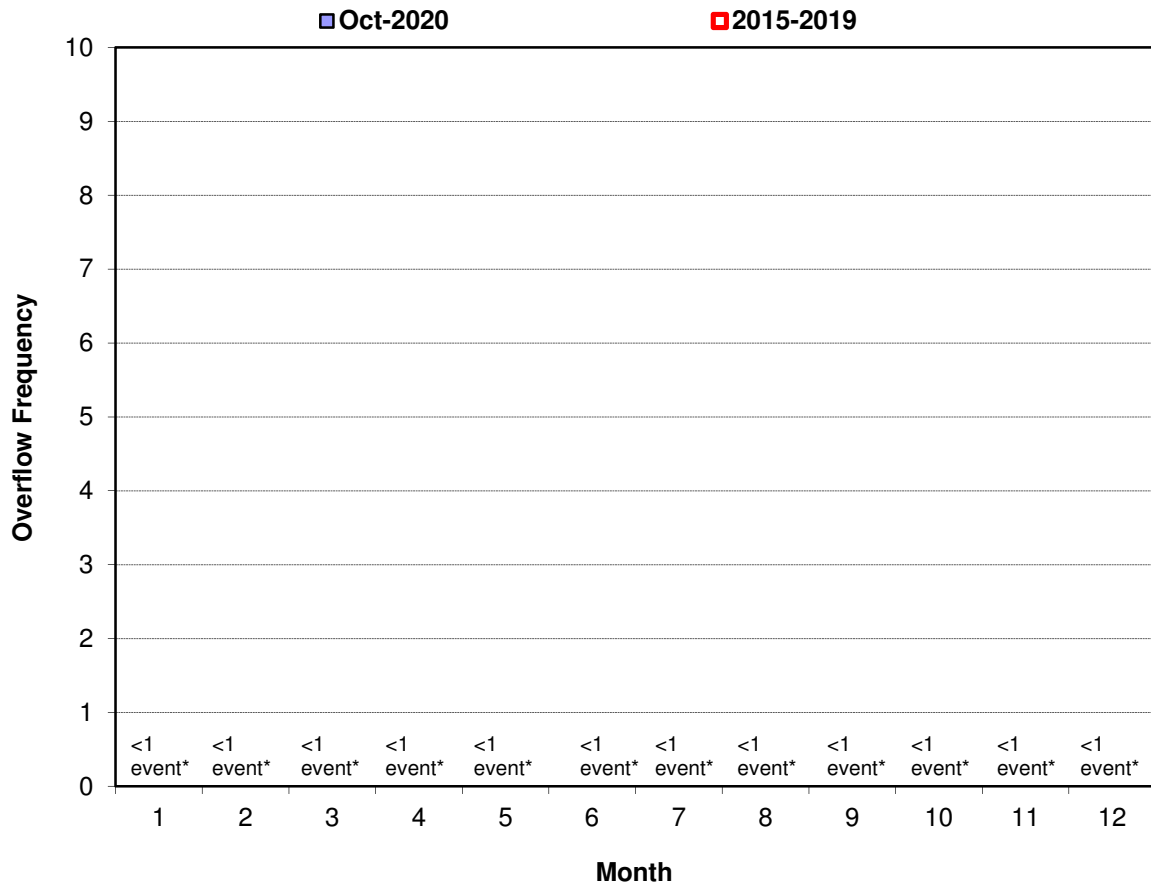
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.43	3.08	0.36		
10/11/20		0.95	4.33	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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:   October   2020**

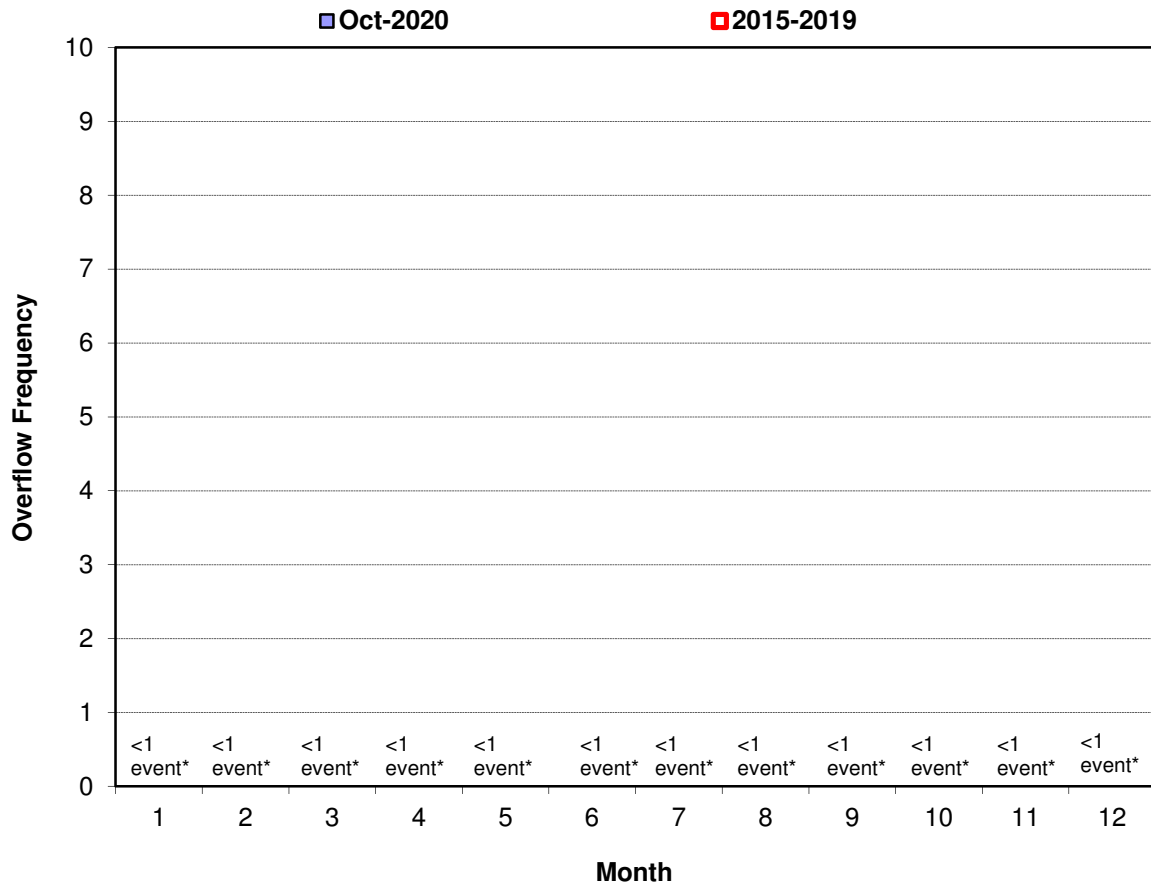
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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:   October   2020**

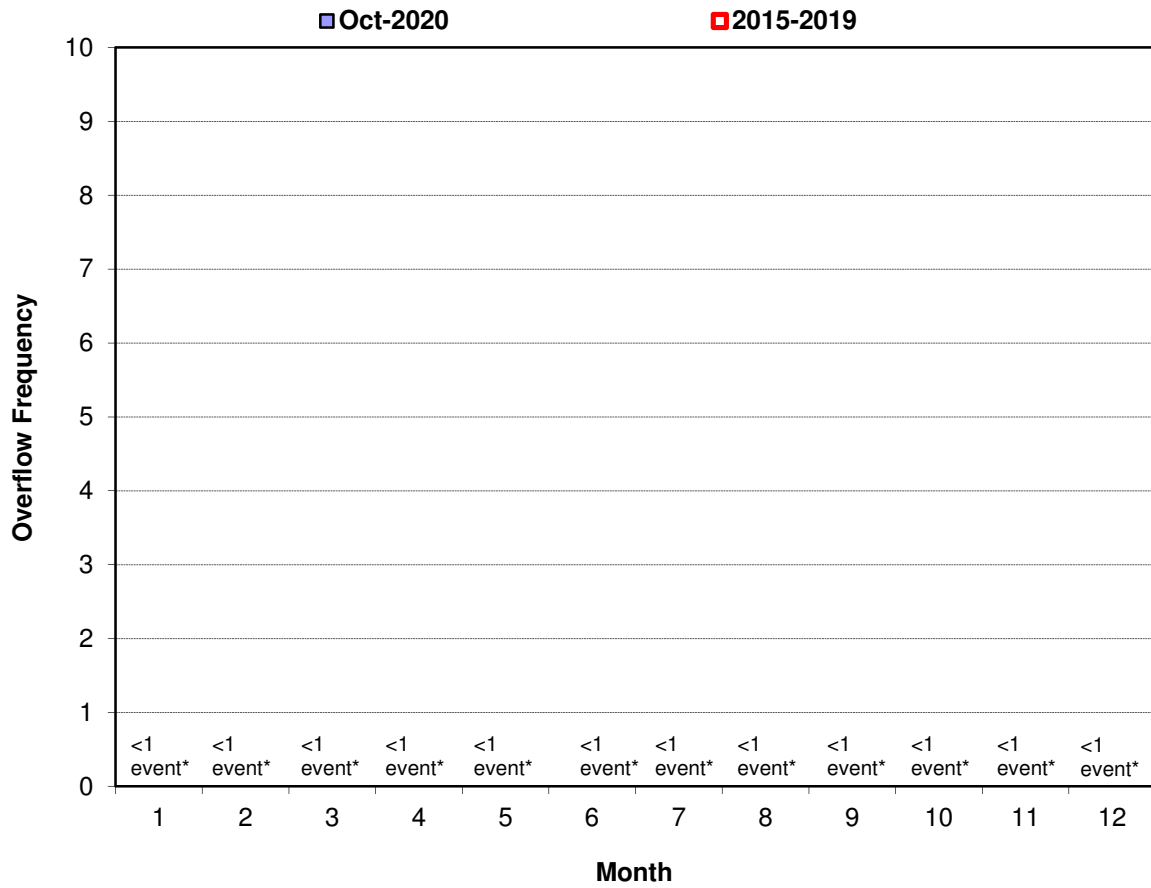
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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:   **October   2020****

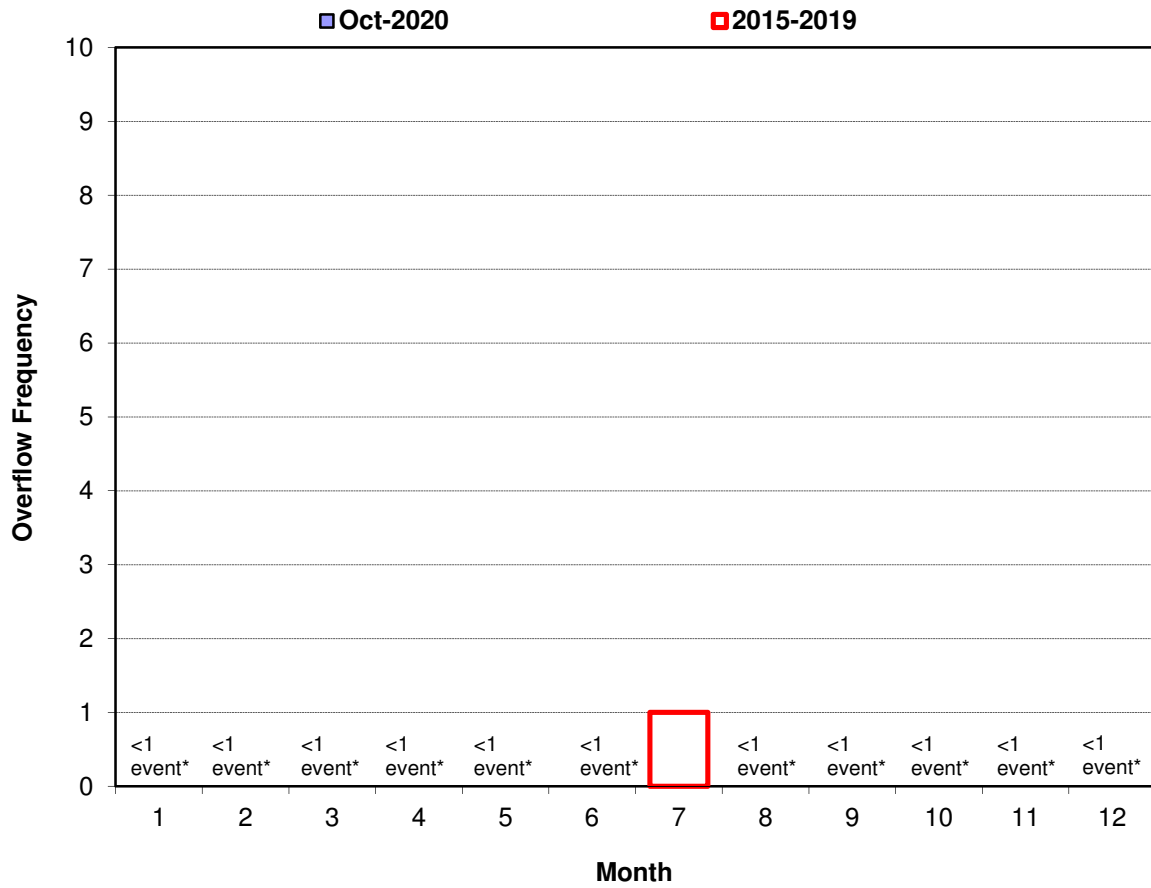
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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: October 2020**

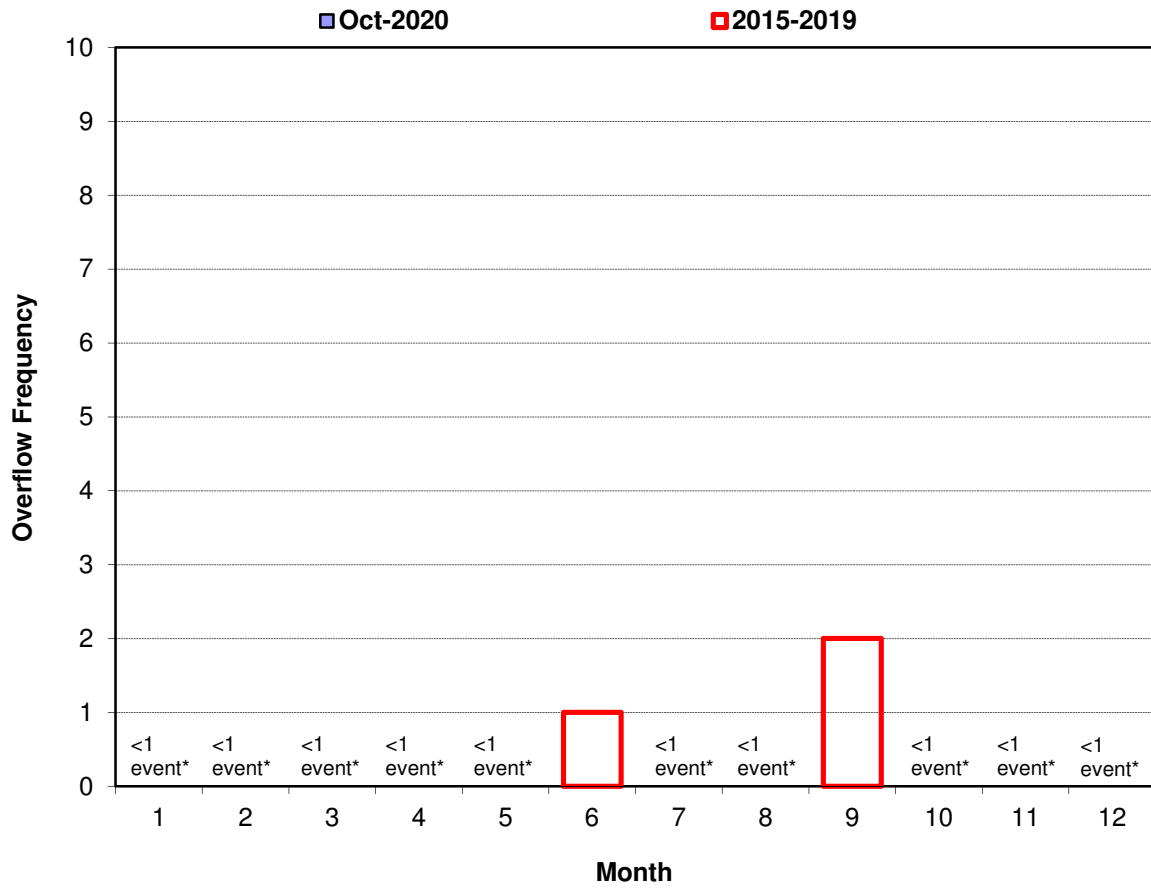
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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:   October   2020**

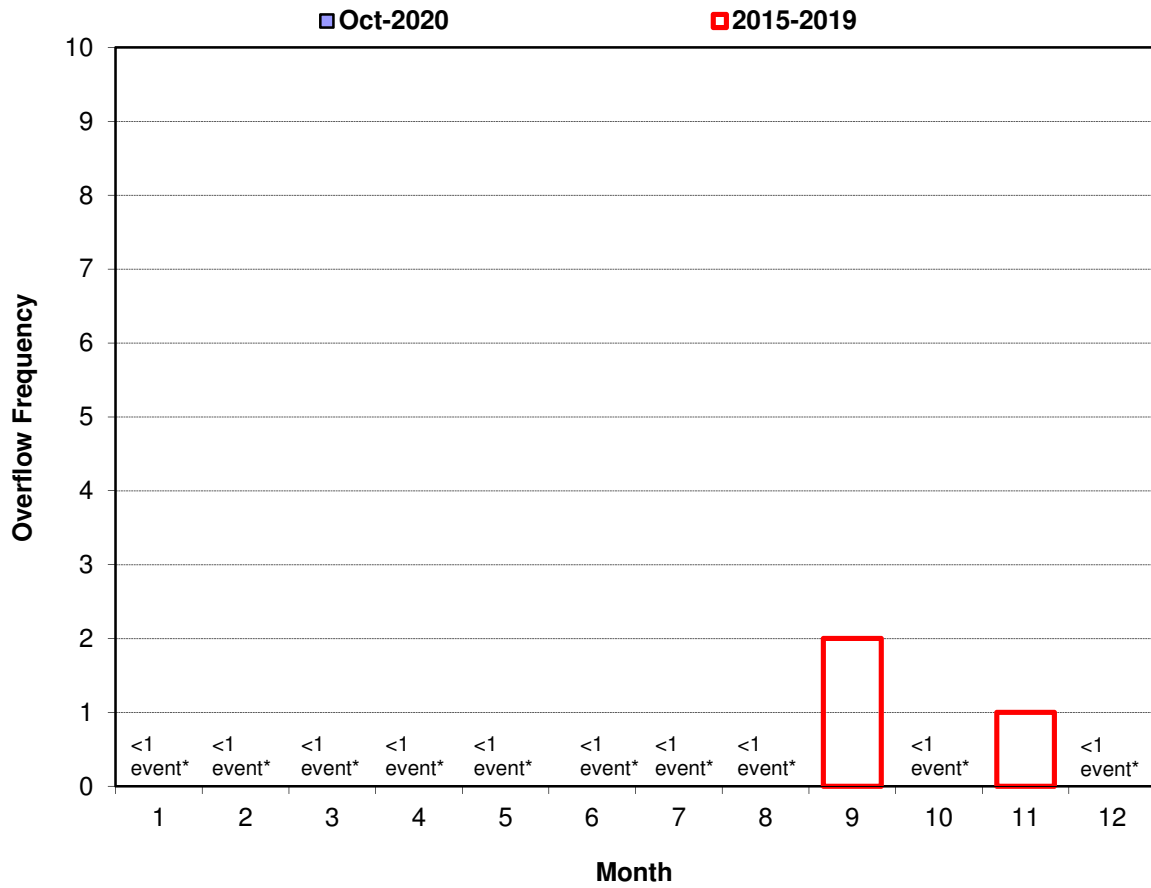
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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: October 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)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	7.40	7.33
10/13/20						
10/14/20						
10/15/20						
10/16/20	1 <sup>(3)</sup>	1.15	4.75	0.84	0.91	1.67
10/17/20					0.95	2.25
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20	1	0.36	1.50	1.08	0.16	0.33
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20	1	0.40	1.75	1.28	1.40	2.17
10/31/20						

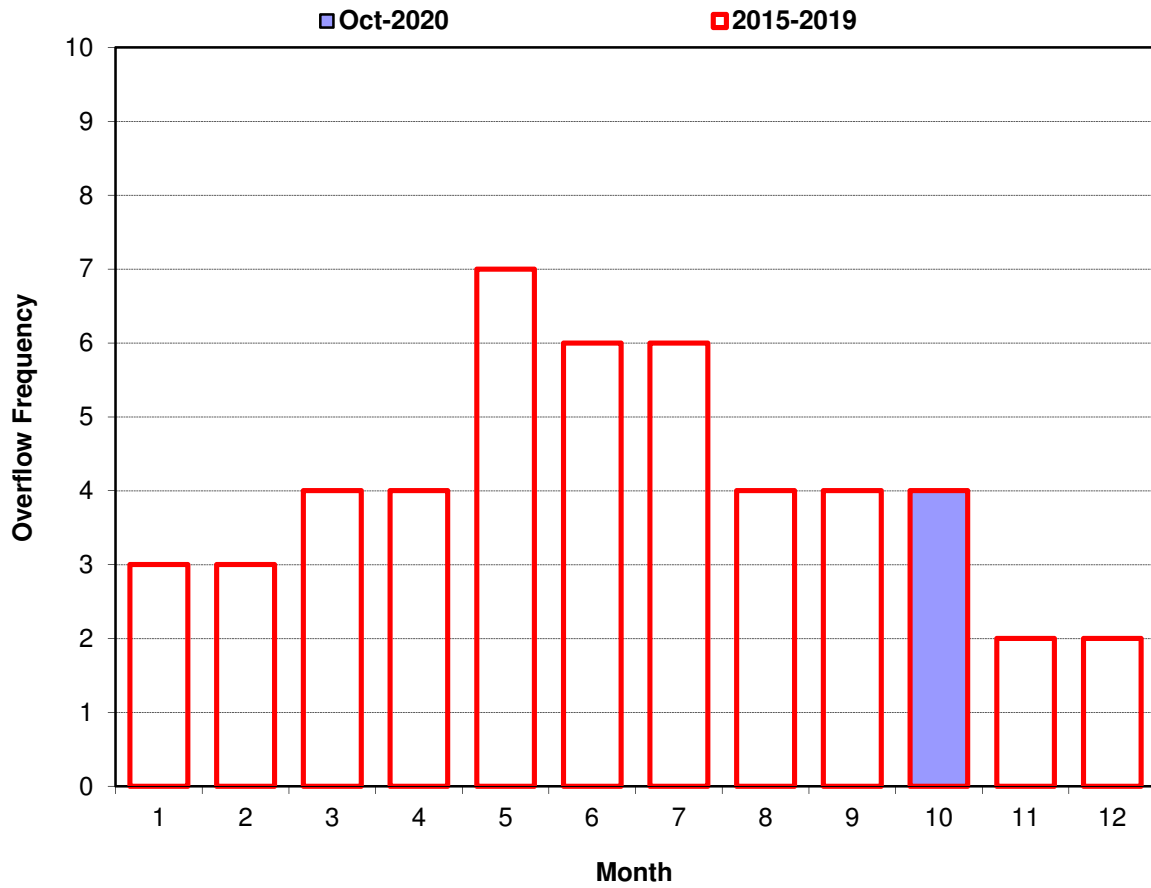
**MONTH SUMMARY**

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)
4	5.62	21.33	2.00	10.900	13.75

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

<sup>(3)</sup> Overflow event continued on the following day.

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



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

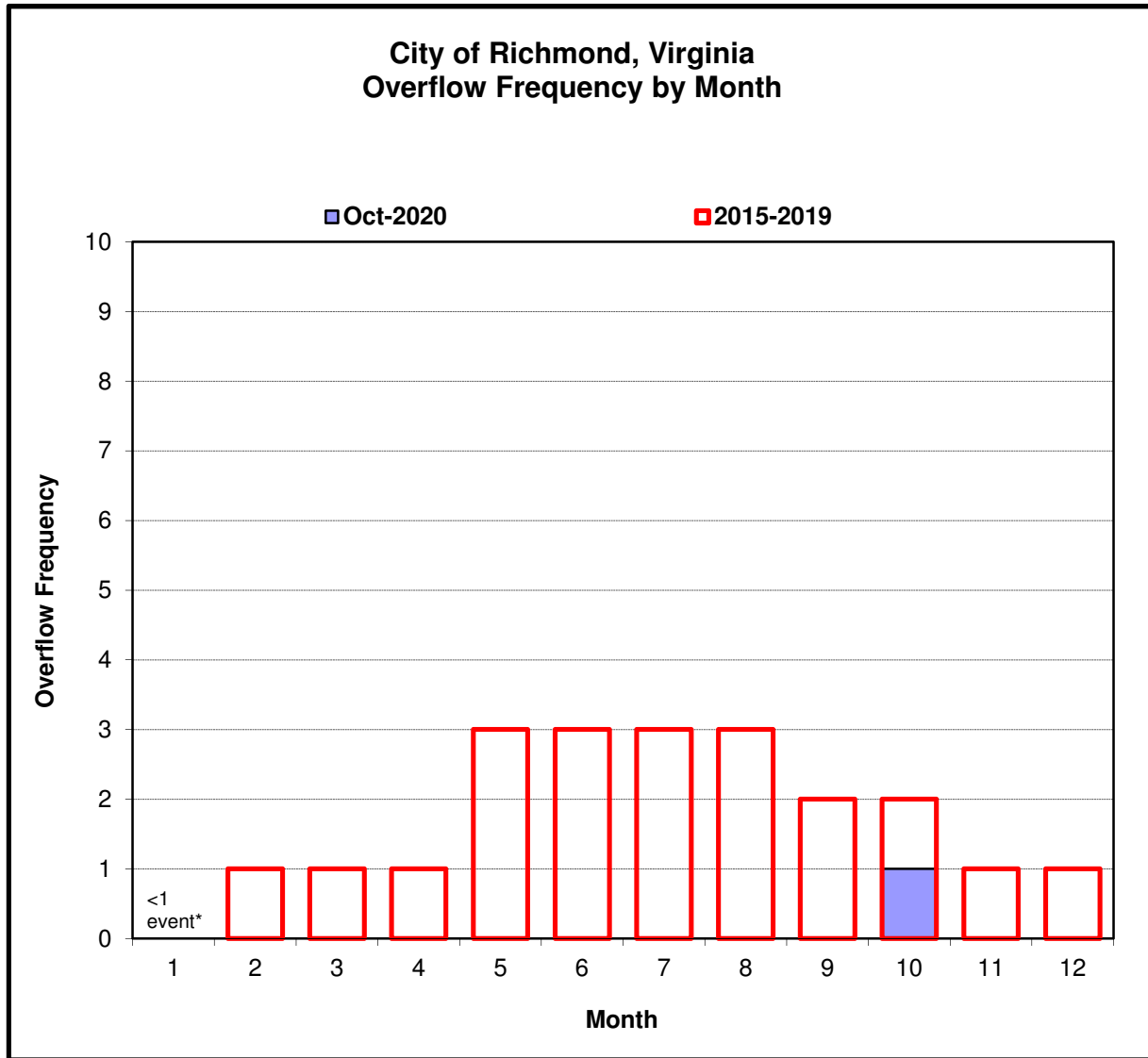
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	0.07	1.17
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.070	1.17

<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.

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

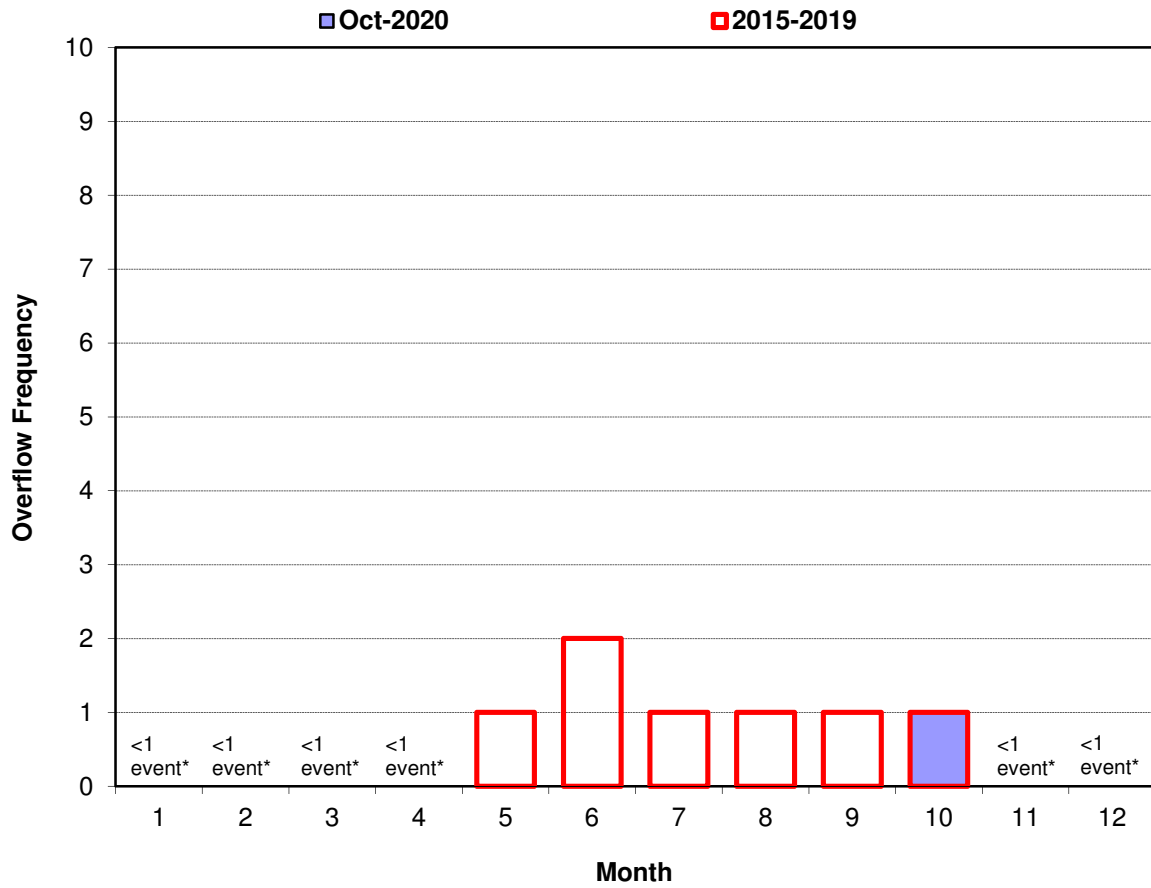
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	0.01	0.25
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.010	0.25

<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:   **October   2020****

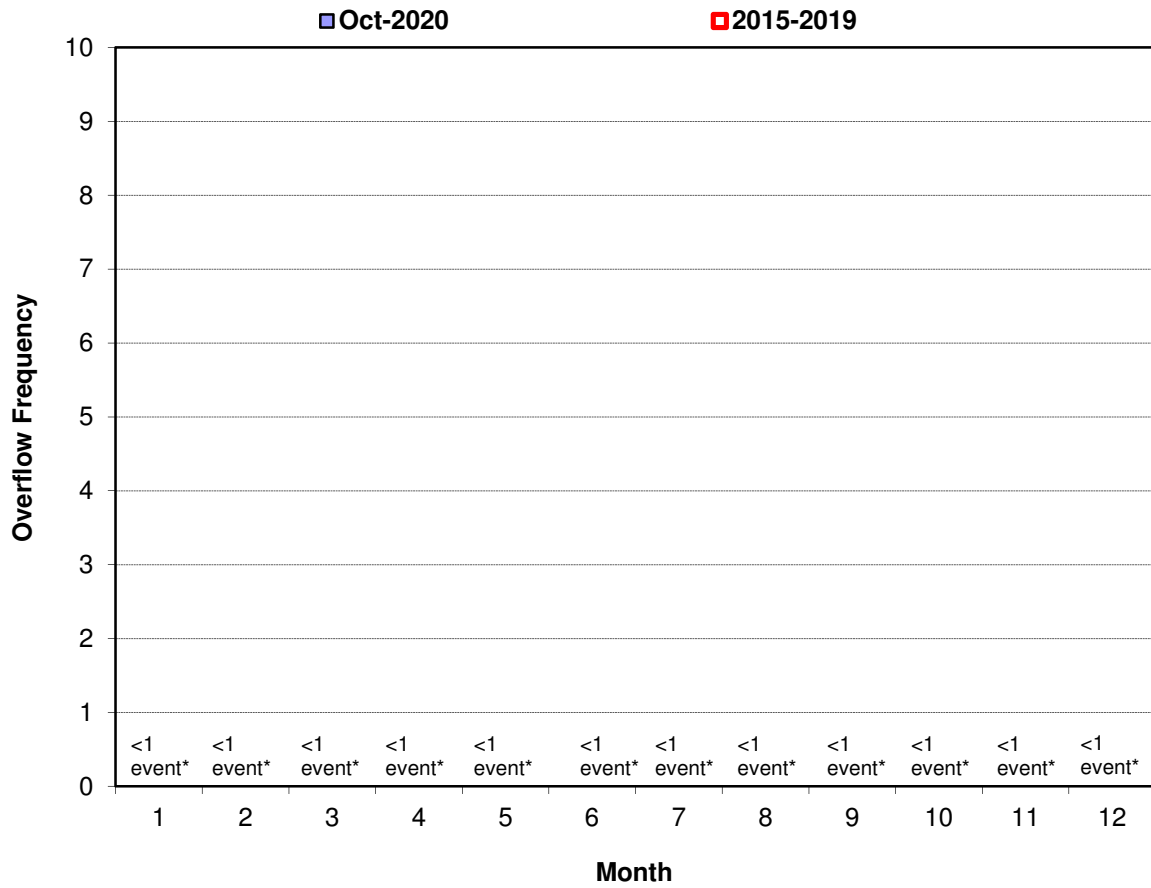
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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:   October   2020**

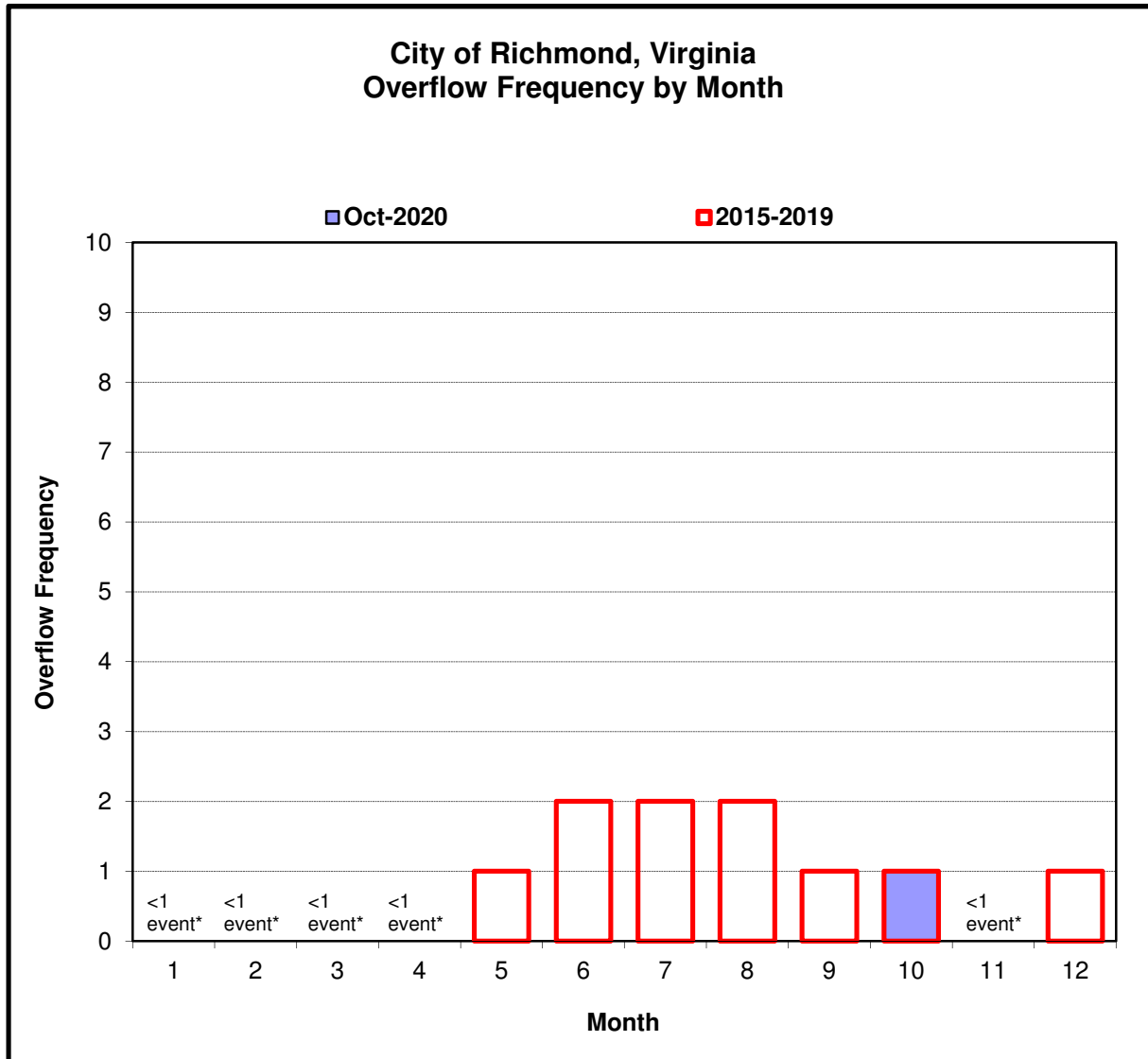
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.43	3.08	0.36		
10/11/20		0.95	4.33	0.72		
10/12/20	1	1.20	3.25	1.32	0.07	0.42
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.070	0.42

<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:   October   2020**

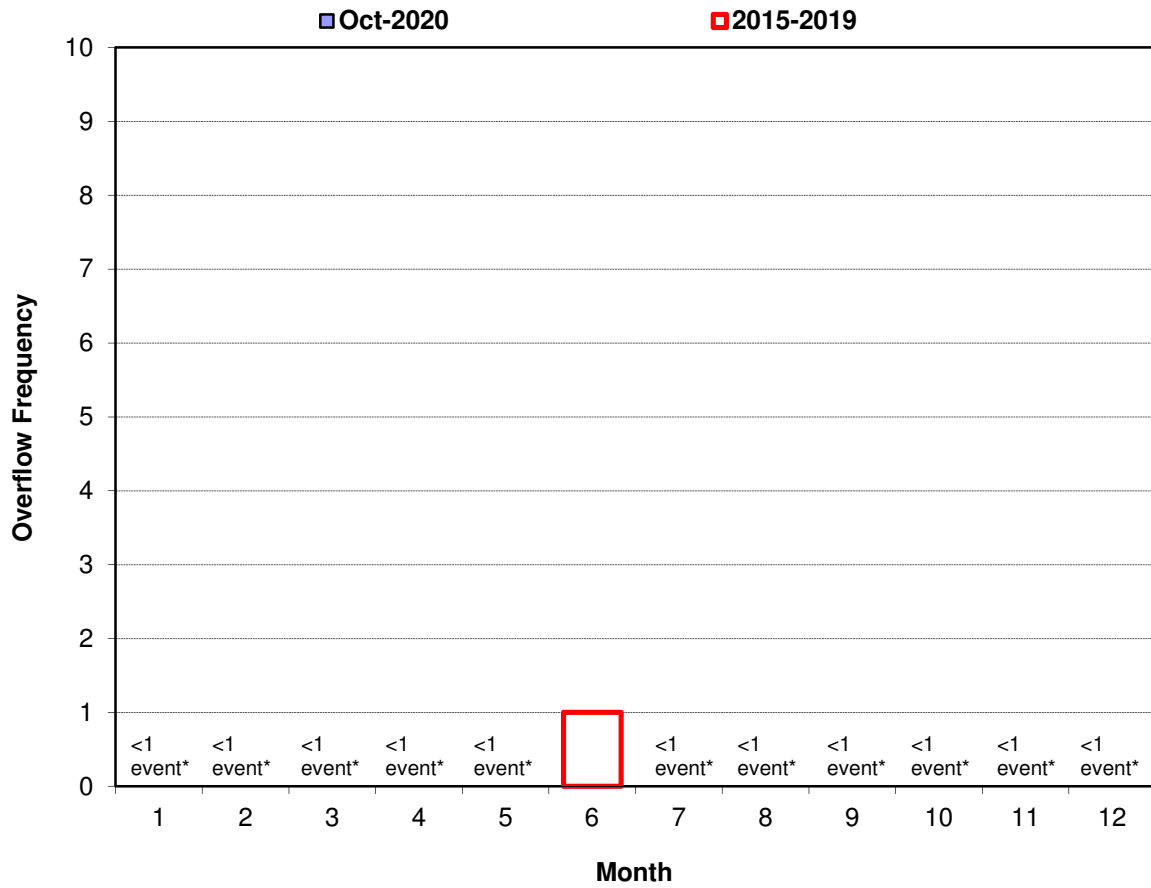
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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:   **October   2020****

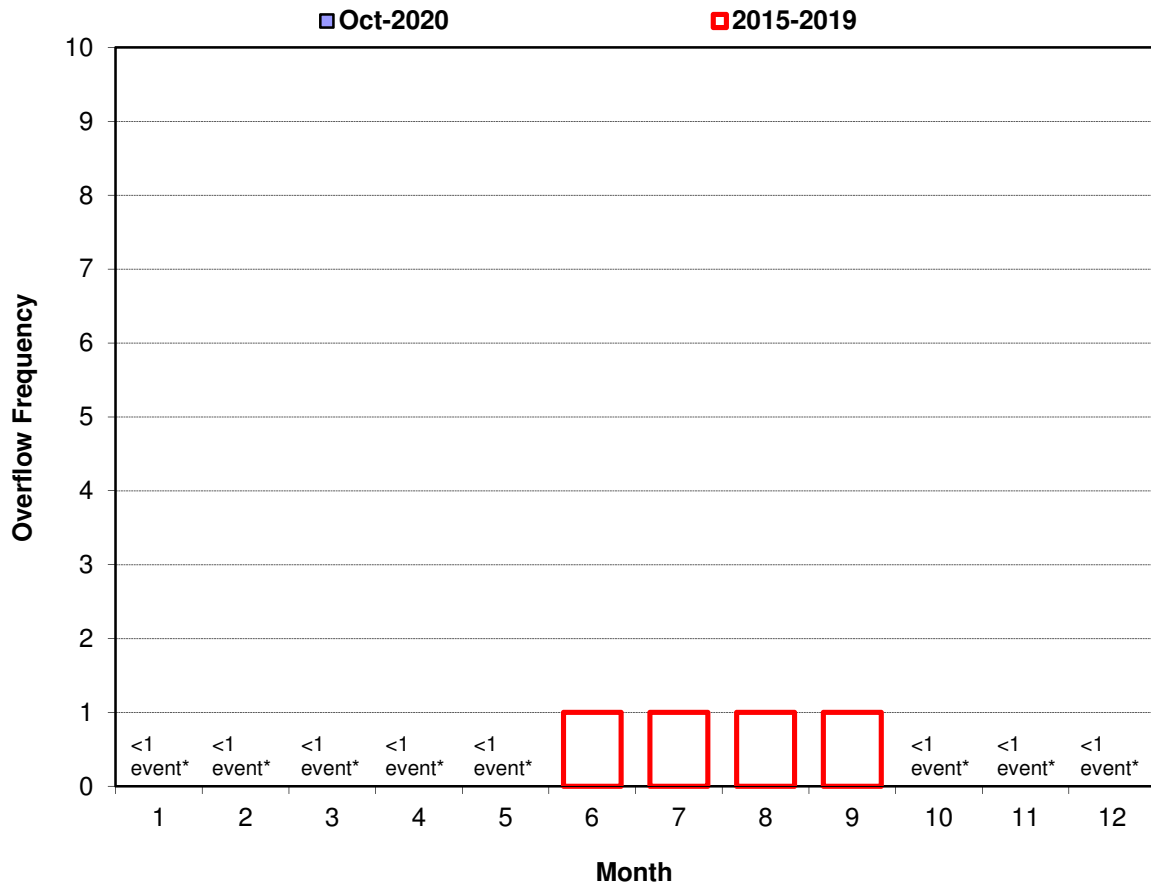
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20		1.20	3.25	1.32		
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.000	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:   **October   2020****

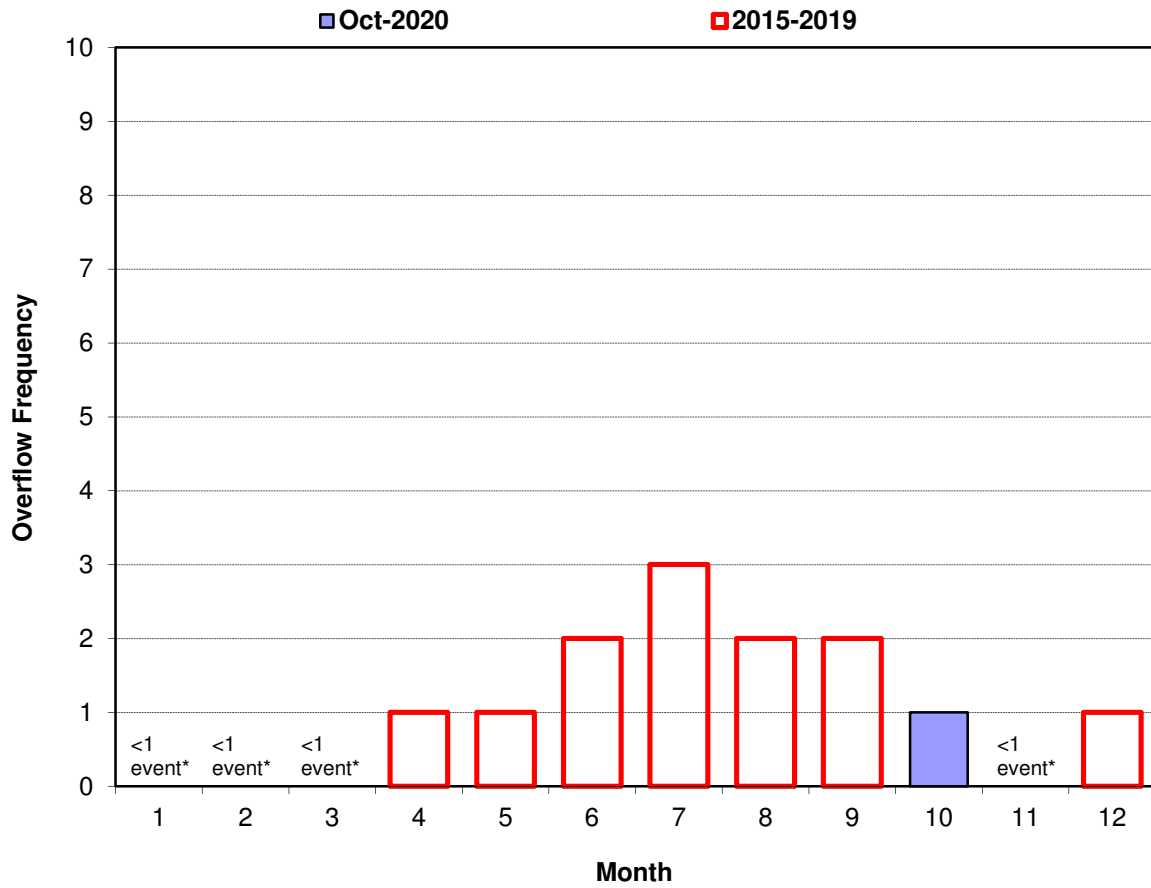
Date	Num of Overflow	Rainfall <sup>(1)</sup> Total (in)	Hours of <sup>(1)</sup> Rainfall	Max. Rainfall <sup>(1)</sup> Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	0.001	0.17
10/13/20						
10/14/20						
10/15/20						
10/16/20		1.15	4.75	0.84		
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20		0.40	1.75	1.28		
10/31/20						

**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	5.62	21.33	2.00	0.001	0.17

<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.



**CSO39 - Govt Road & Gillies  
Overflow Model Summary  
Current Month:   October   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)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	0.42	3.08
10/13/20						
10/14/20						
10/15/20						
10/16/20	1 <sup>(3)</sup>	1.15	4.75	0.84	0.07	0.92
10/17/20					0.07	1.42
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20	1	0.40	1.75	1.28	0.19	2.42
10/31/20						

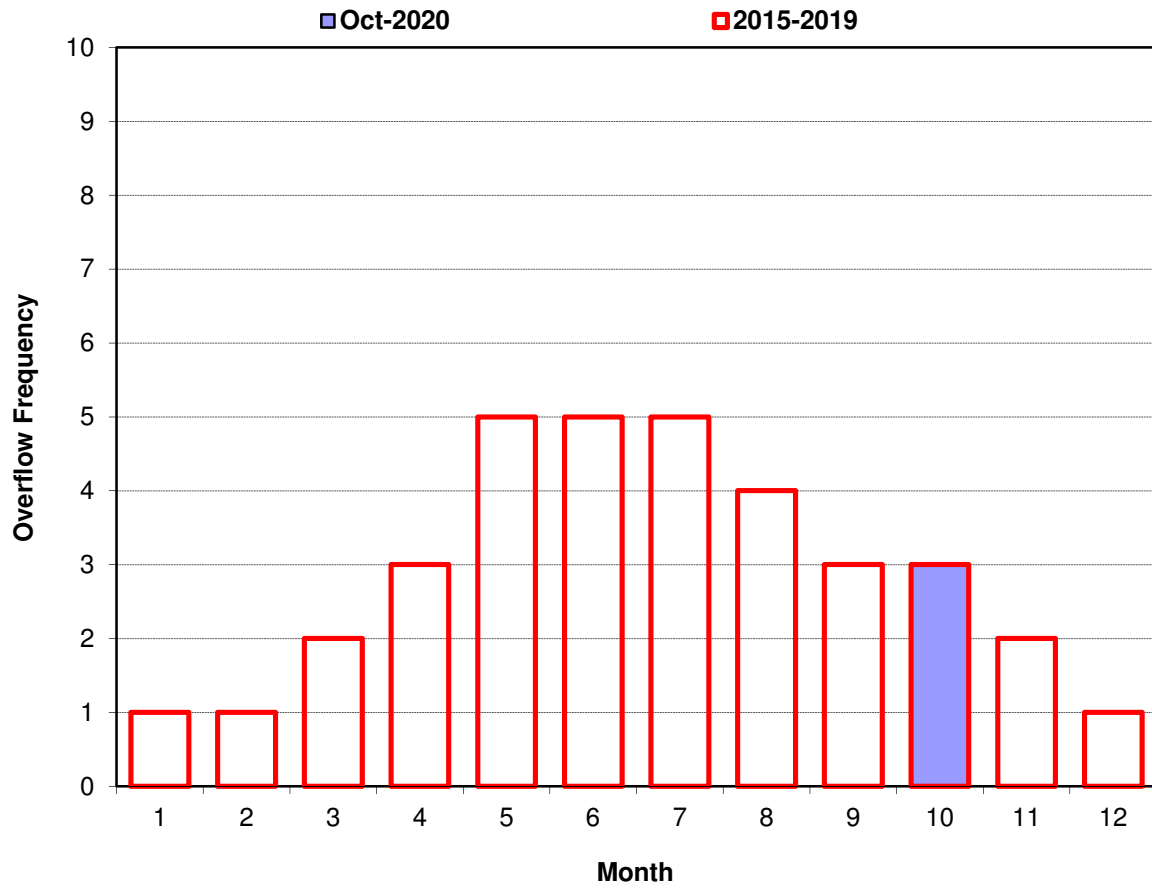
**MONTH SUMMARY**

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	5.62	21.33	2.00	0.760	7.83

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

<sup>(3)</sup> Overflow event continued on the following day.

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



**CSO40 - Diffuser  
Overflow Model Summary  
Current Month:   October   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)
10/1/20						
10/2/20						
10/3/20						
10/4/20						
10/5/20						
10/6/20						
10/7/20						
10/8/20						
10/9/20						
10/10/20		0.44	3.17	0.36		
10/11/20		0.93	4.25	0.72		
10/12/20	1	1.20	3.25	1.32	1.8	5.33
10/13/20						
10/14/20						
10/15/20						
10/16/20	1	1.15	4.75	0.84	0.16	1.00
10/17/20						
10/18/20						
10/19/20						
10/20/20						
10/21/20						
10/22/20						
10/23/20						
10/24/20		0.15	0.50	0.60		
10/25/20		0.36	1.50	1.08		
10/26/20						
10/27/20						
10/28/20						
10/29/20		1.00	2.17	2.00		
10/30/20	1	0.40	1.75	1.28	0.4	2.25
10/31/20						

**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	5.62	21.33	2.00	2.300	8.58

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

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

