

CSO Outfall 002 Orleans - 2010

Rainfall and Overflow Model Summary

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	0.30	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10	1	0.76	23	0.09	0.01	2
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

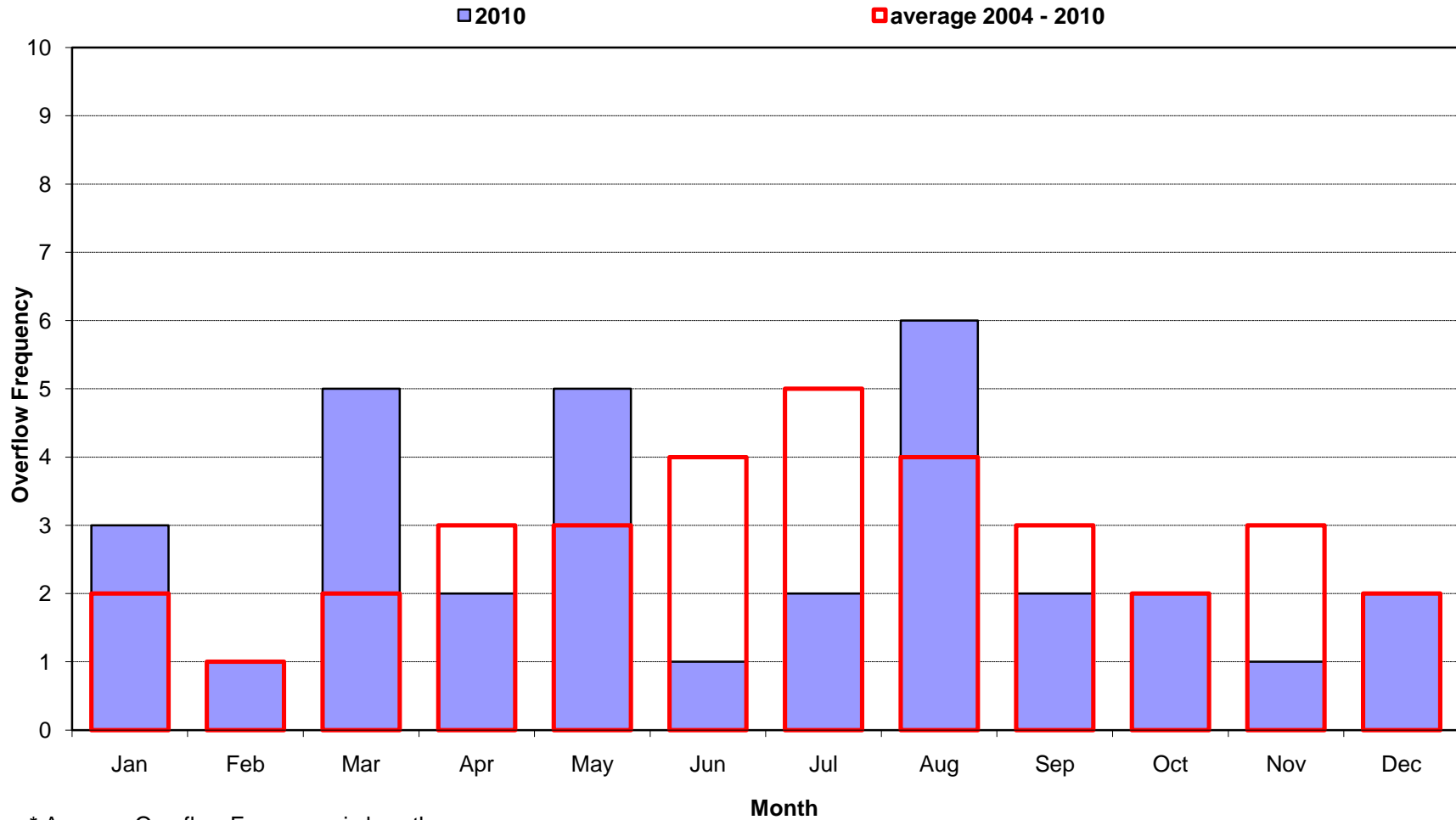
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
2	3.22	72	0.82	0.31	5

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 002 Orleans 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 003 Nicholson - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	0.24	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10	1	0.76	23	0.09	0.01	1
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

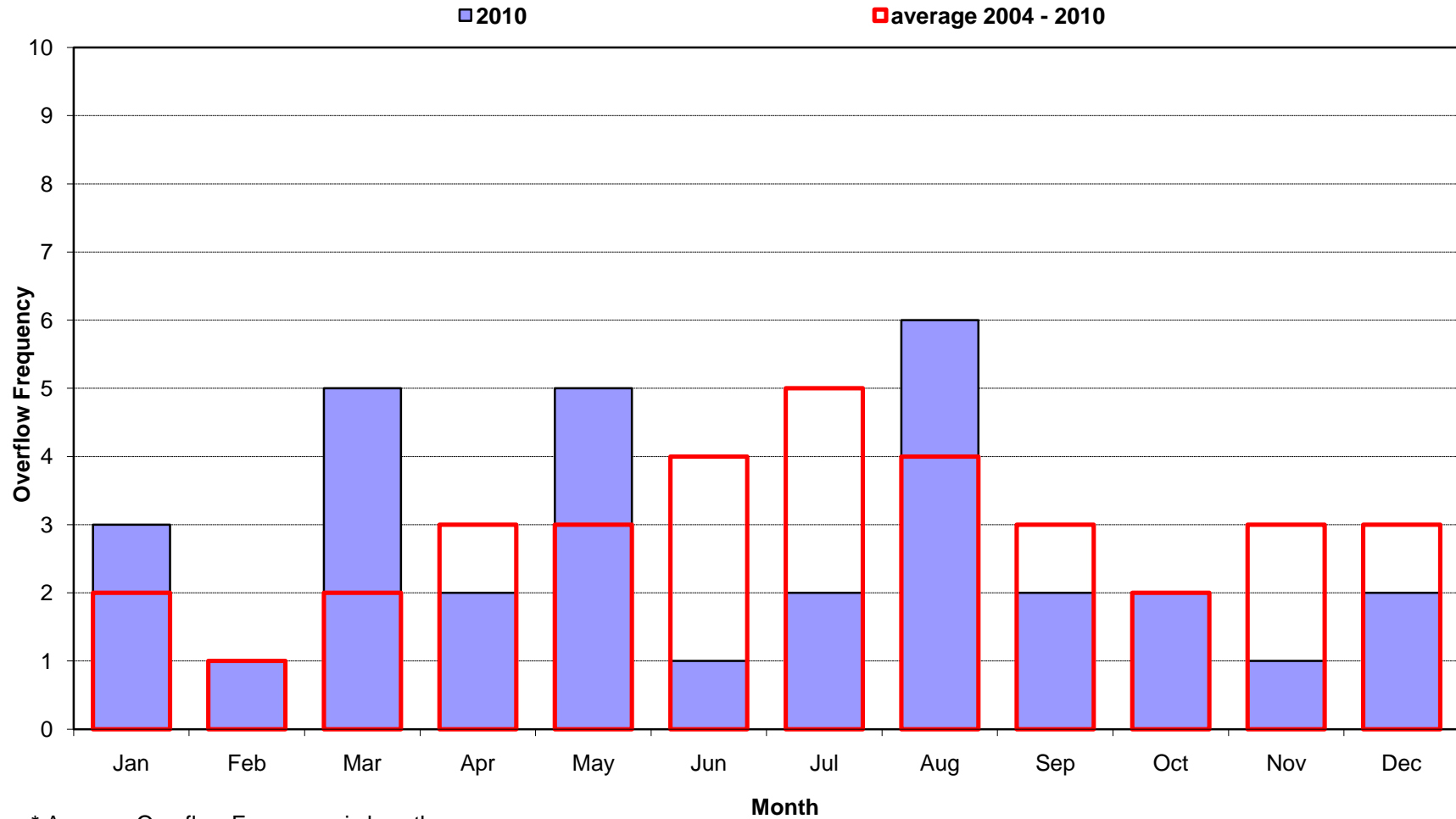
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
2	3.22	72	0.82	0.24	4

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 003 Nicholson 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 004 Bloody Run - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	1.07	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10	1	0.76	23	0.09	0.04	2
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

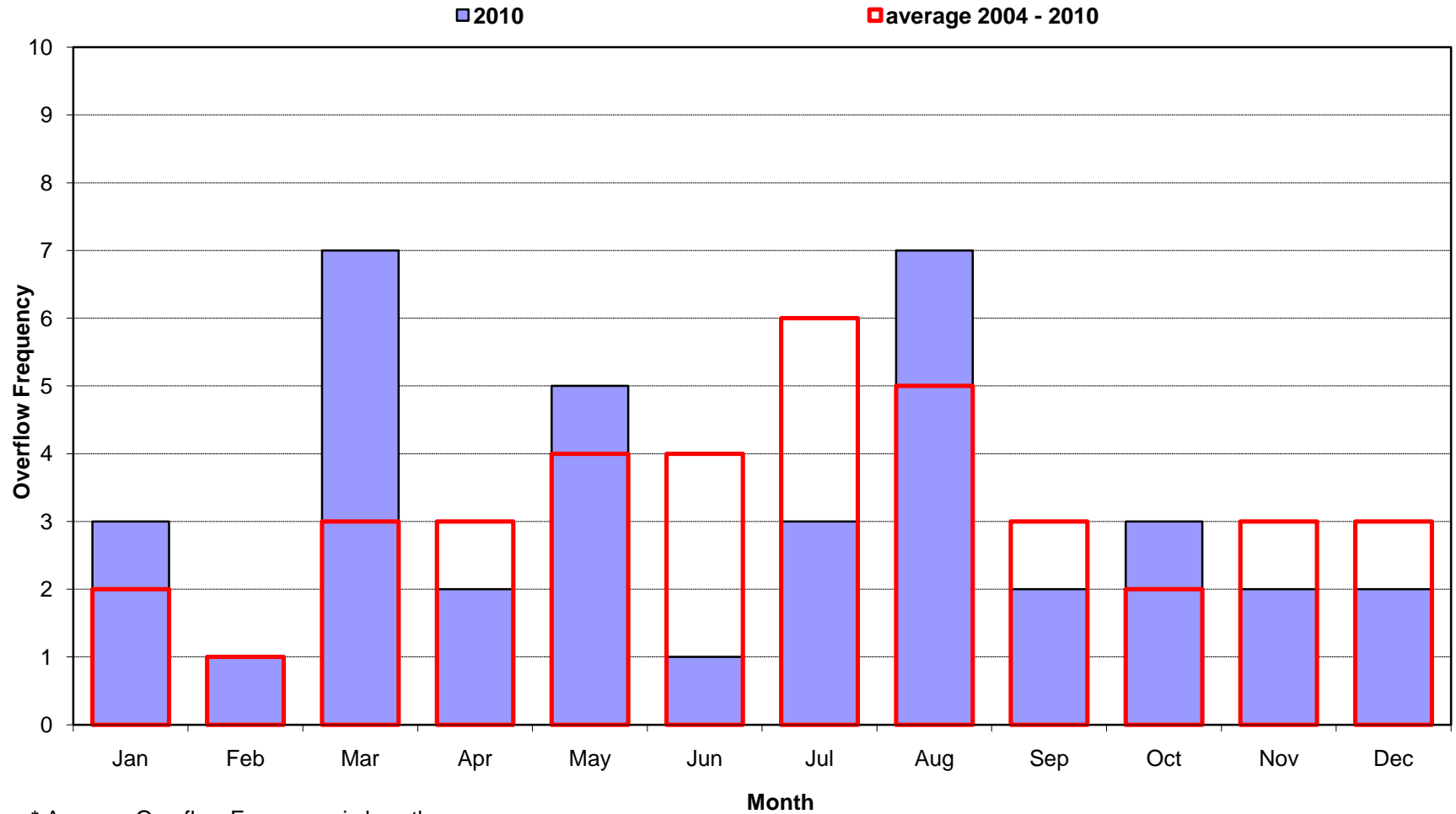
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
2	3.22	72	0.82	1.11	5

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 004 Bloody Run 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 005 Peach St. - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

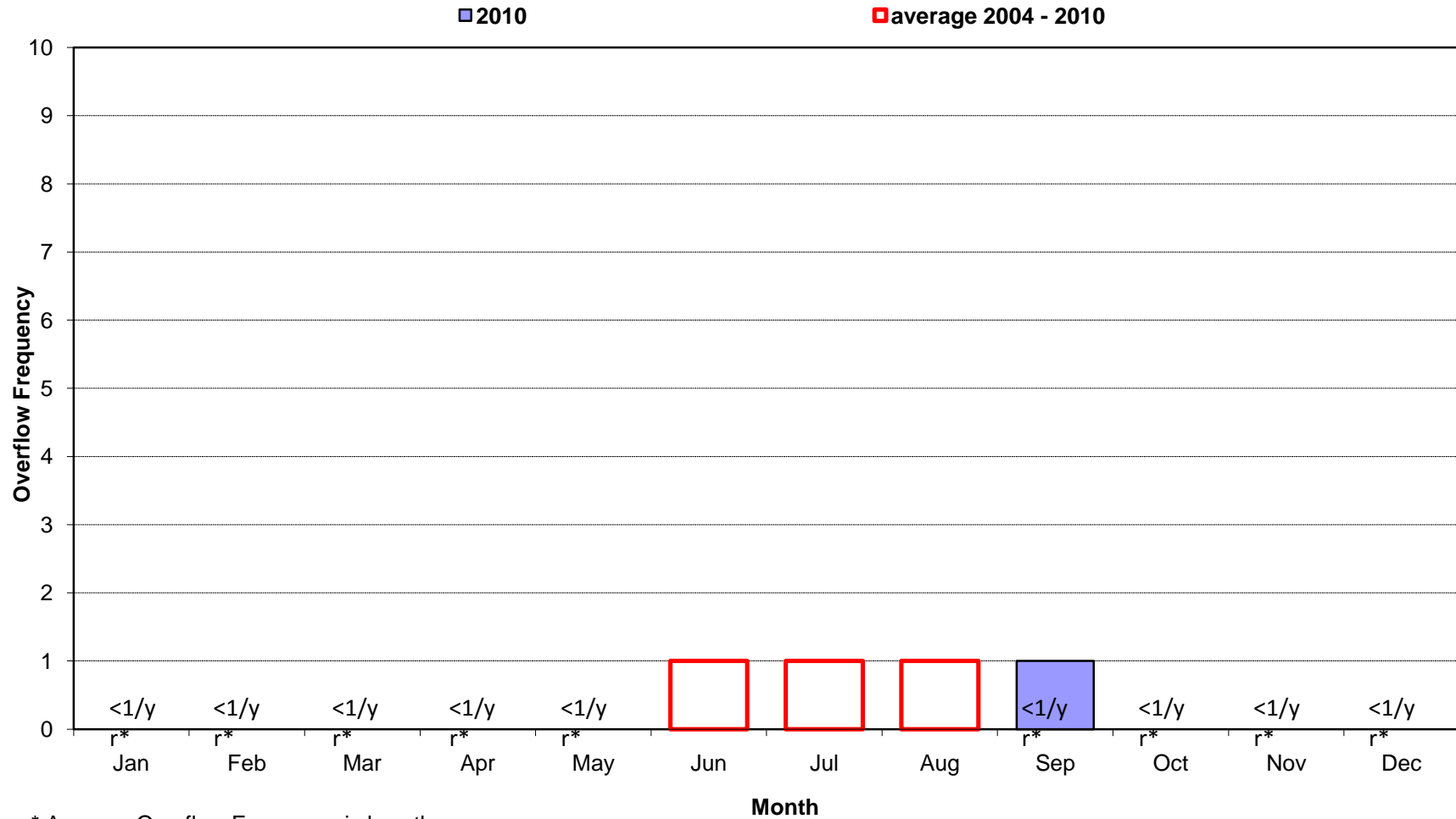
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 005 Peach St. 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 006 Shockoe - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	100.41	7
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10	1	0.56	12	0.17	33.24	20
12/12/10	1	0.76	23	0.09	56.39	26
12/13/10						
12/14/10						
12/15/10						
12/16/10	1	0.20	9	0.05	0.90	9
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10	1	0.23	10	0.04	1.16	9
12/26/10	1	0.13	8	0.04	0.77	10
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

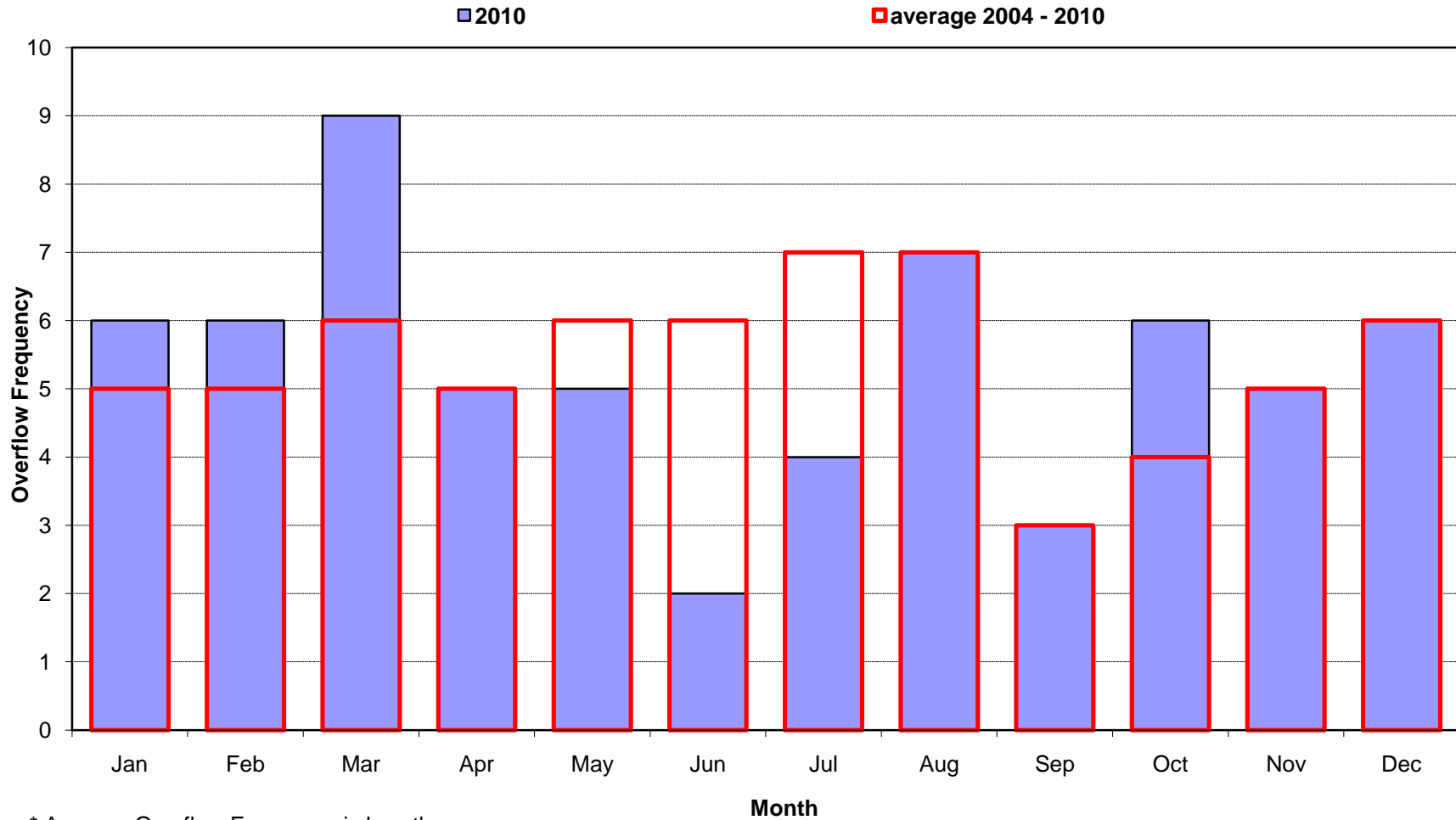
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
6	3.22	72	0.82	192.86	81

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 006 Shockoe 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 007 Byrd - 2010

Rainfall and Overflow Model Summary

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

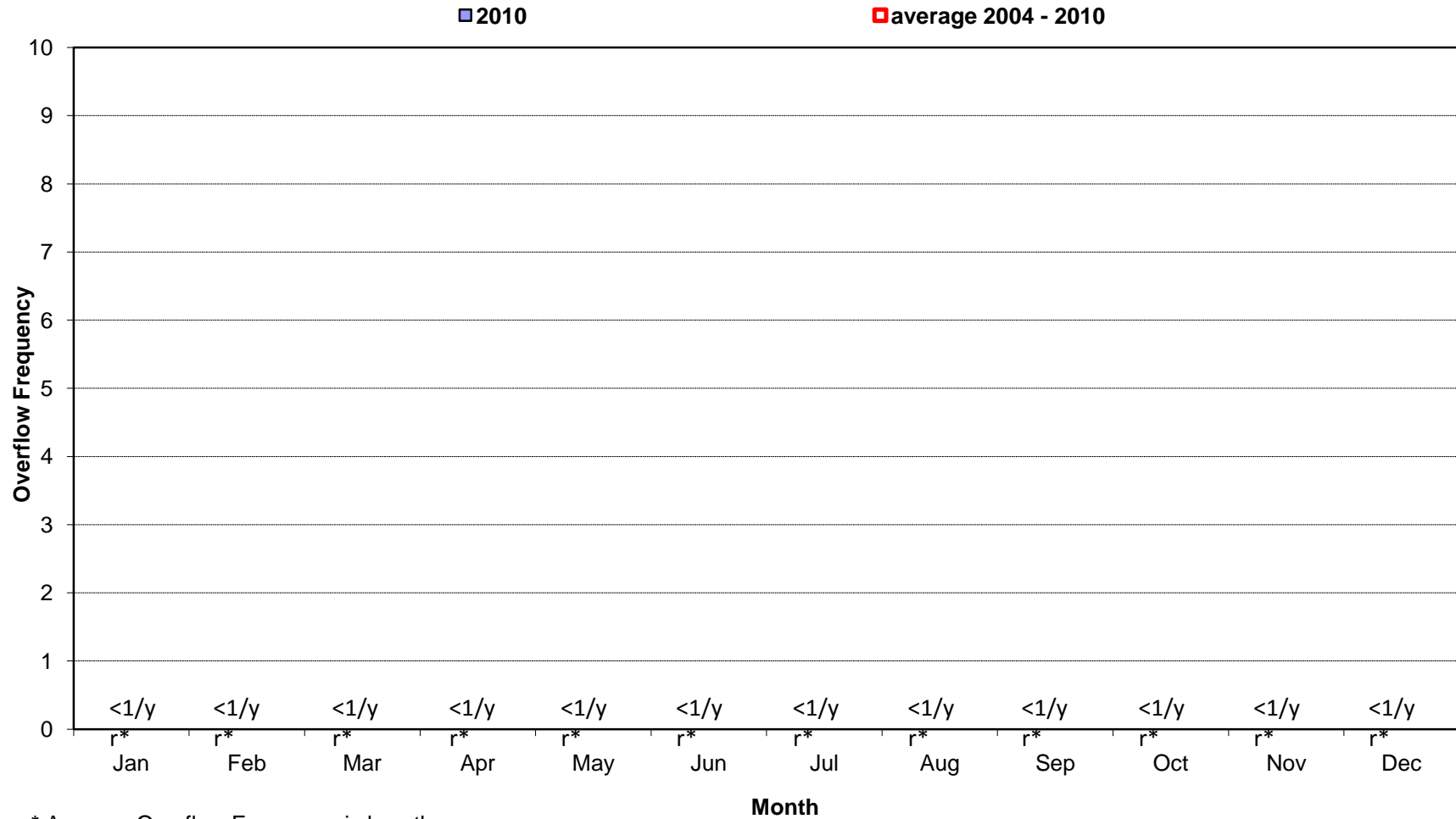
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 007 Byrd 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 008 6th St. - 2010

Rainfall and Overflow Model Summary

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

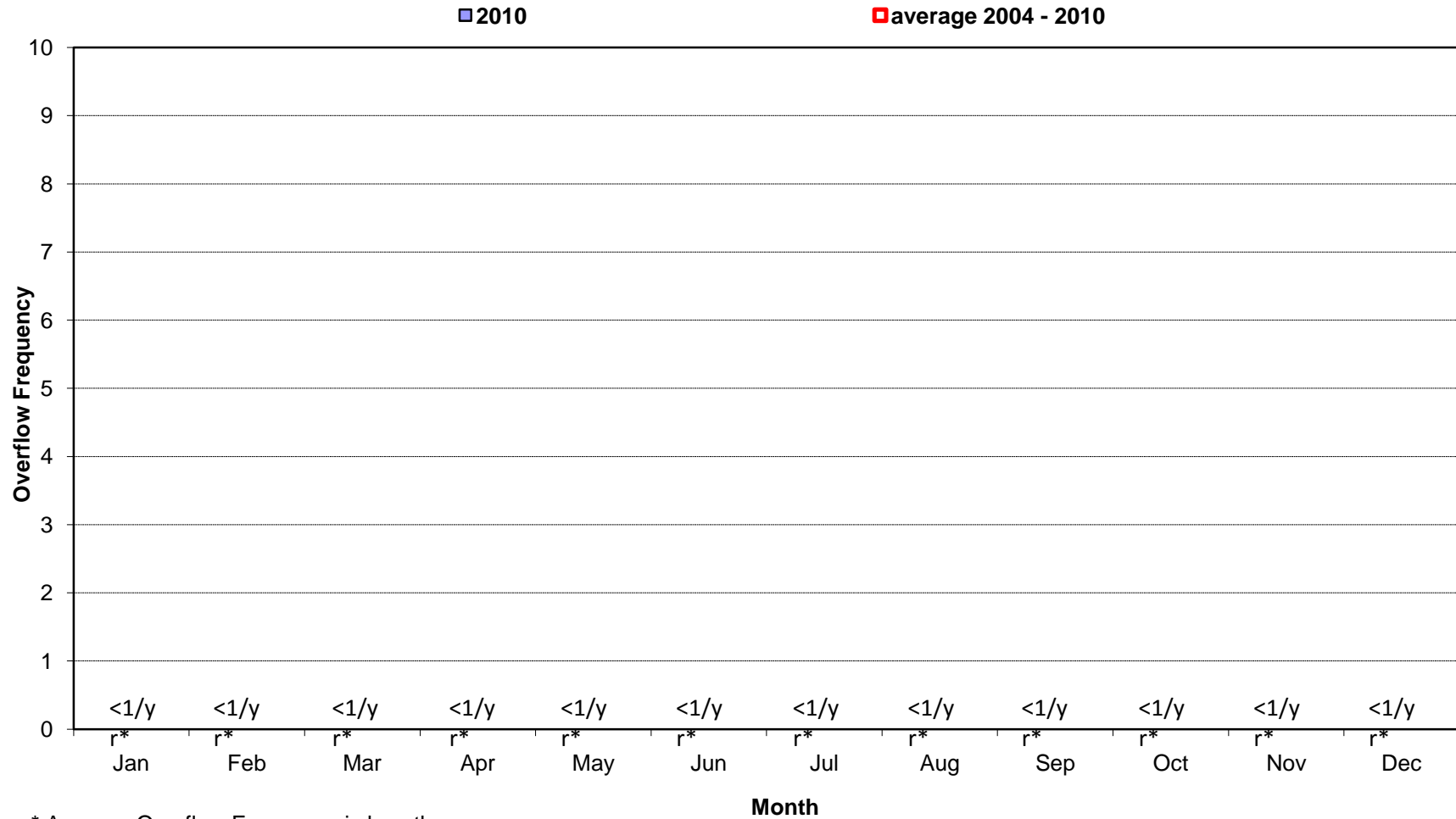
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 008 6th St. 2004 - 2010



CSO Outfall 009 7th St. - 2010

Rainfall and Overflow Model Summary

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

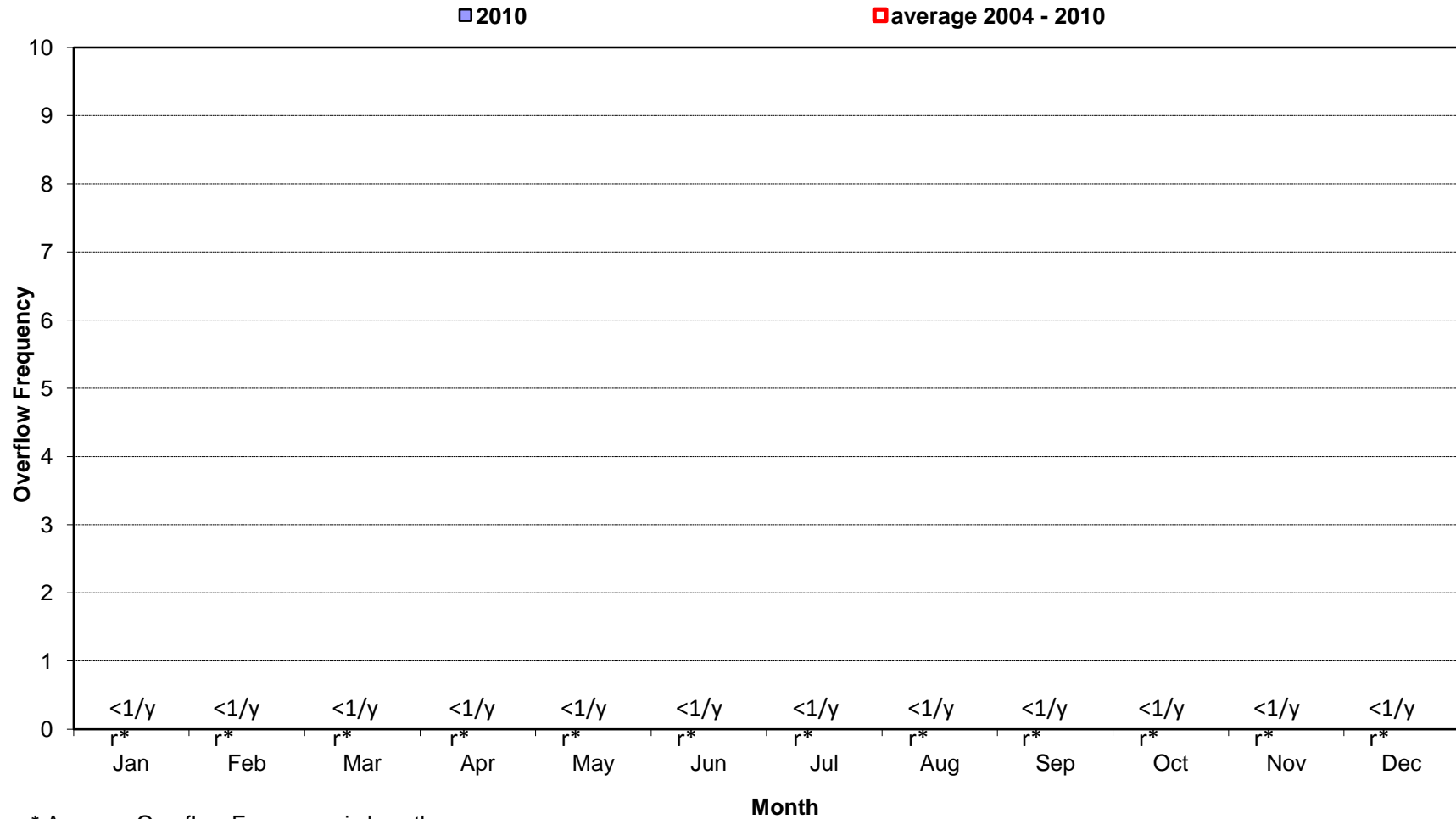
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 009 7th St. 2004 - 2010



**CSO Outfall 010 Gambles Hill - 2010
Rainfall and Overflow Model Summary**

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

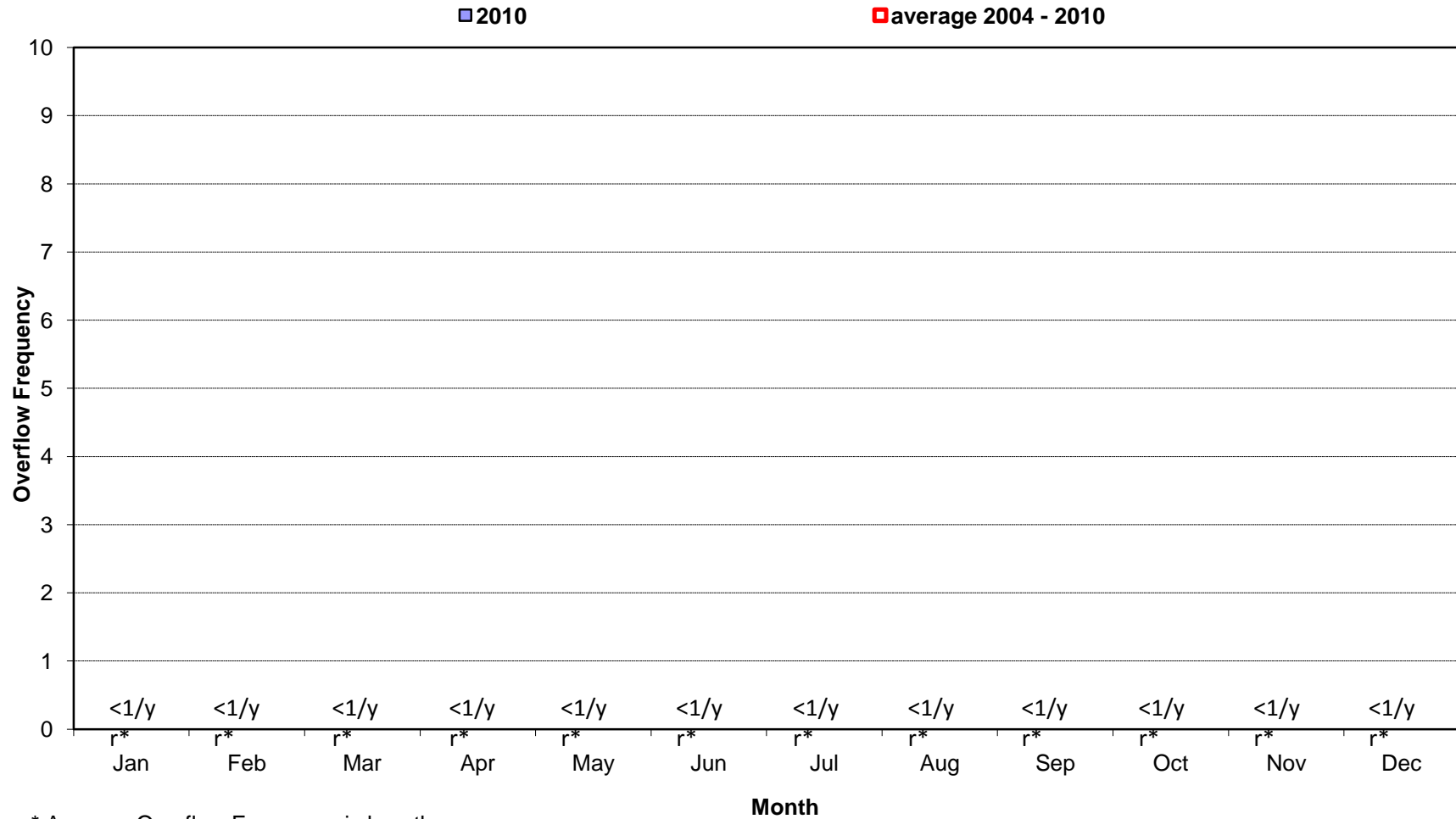
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 010 Gambles Hill 2004 - 2010



CSO Outfall 011 Park Hydro - 2010

Rainfall and Overflow Model Summary

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	0.61	2
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

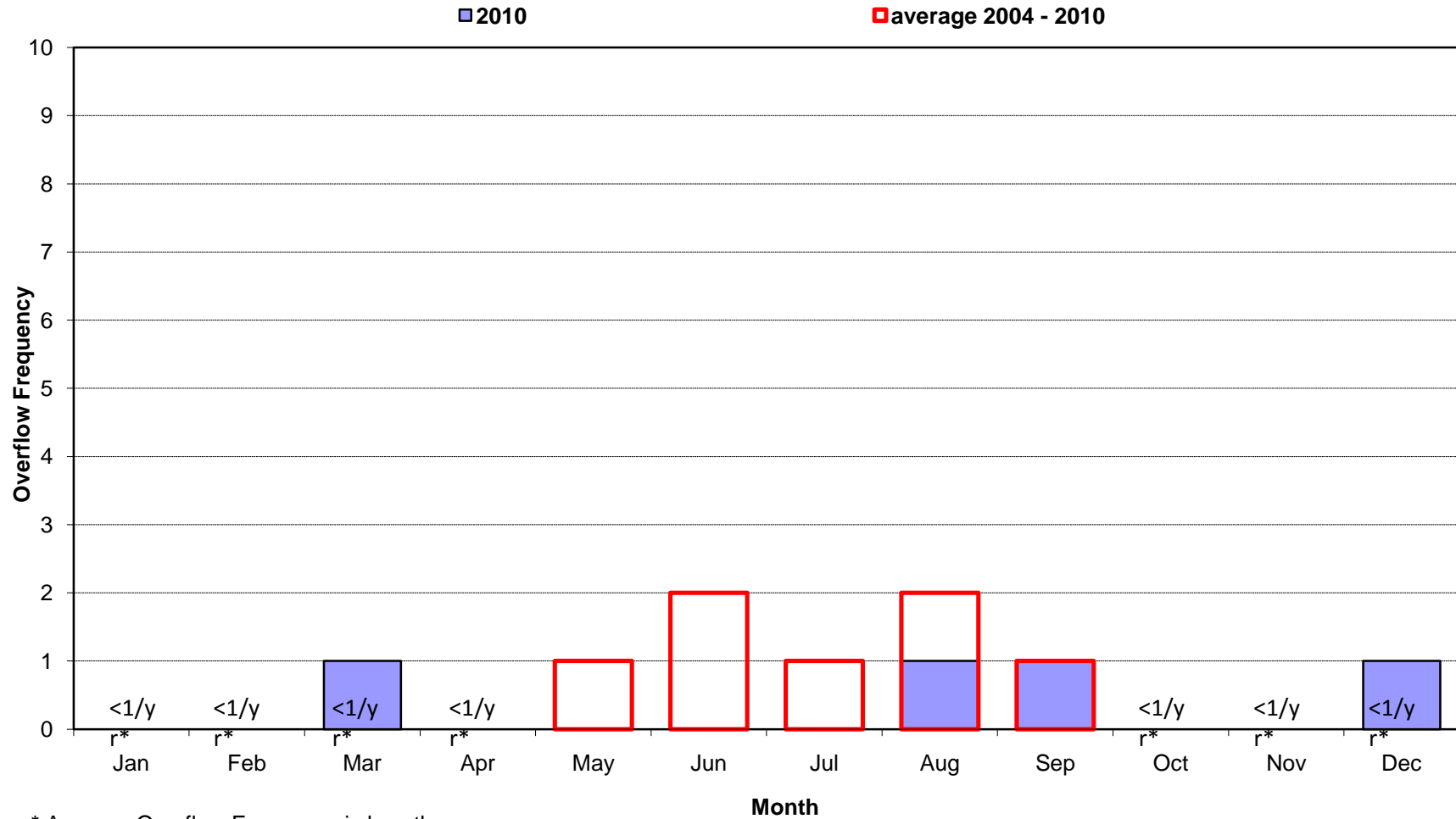
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
1	3.22	72	0.82	0.61	2

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 011 Park Hydro 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 012 Hilton St. - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	0.49	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10	1	0.76	23	0.09	0.03	2
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

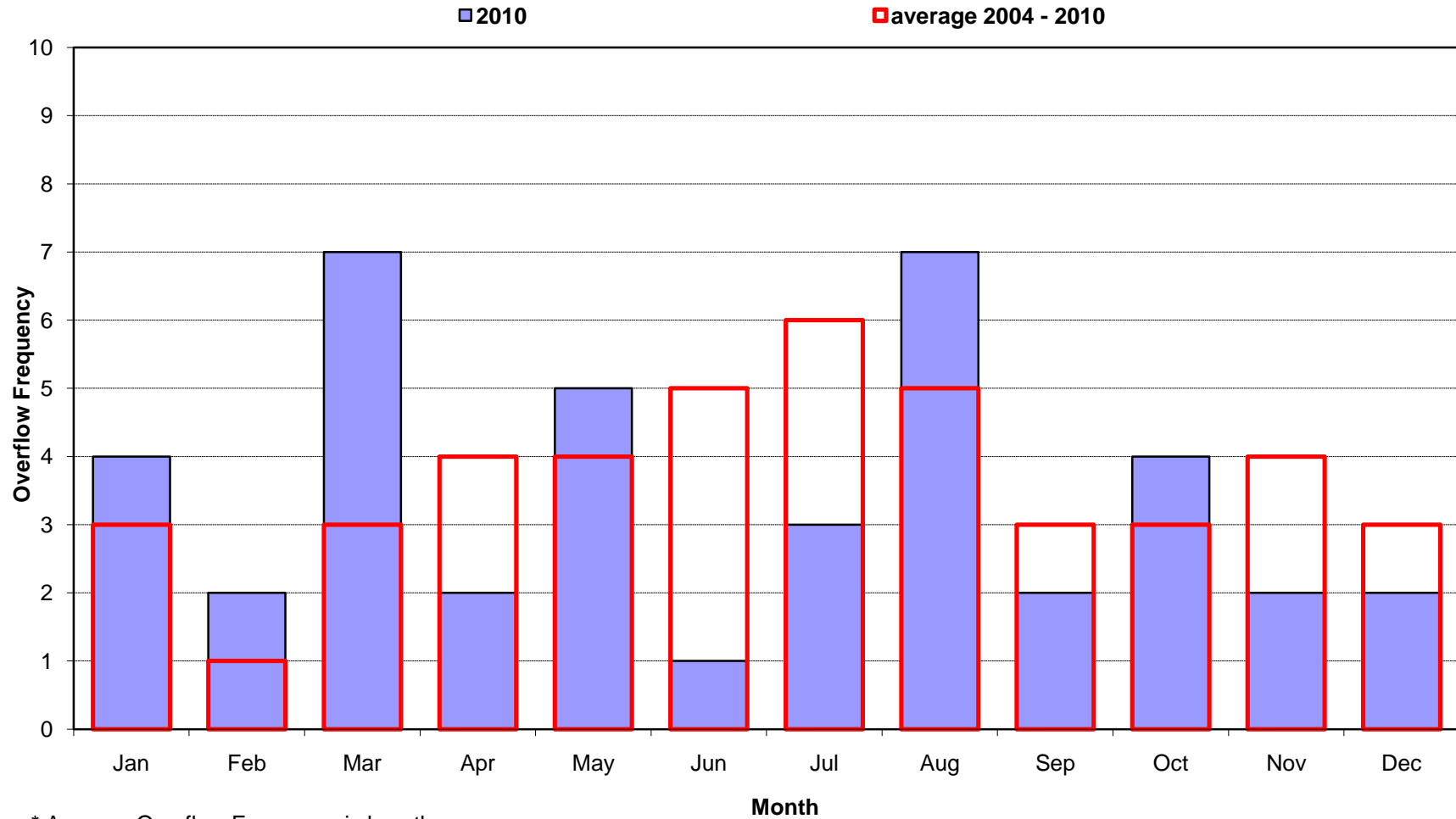
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
2	3.22	72	0.82	0.52	5

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 012 Hilton St. 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 013 Maury St. - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	0.21	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

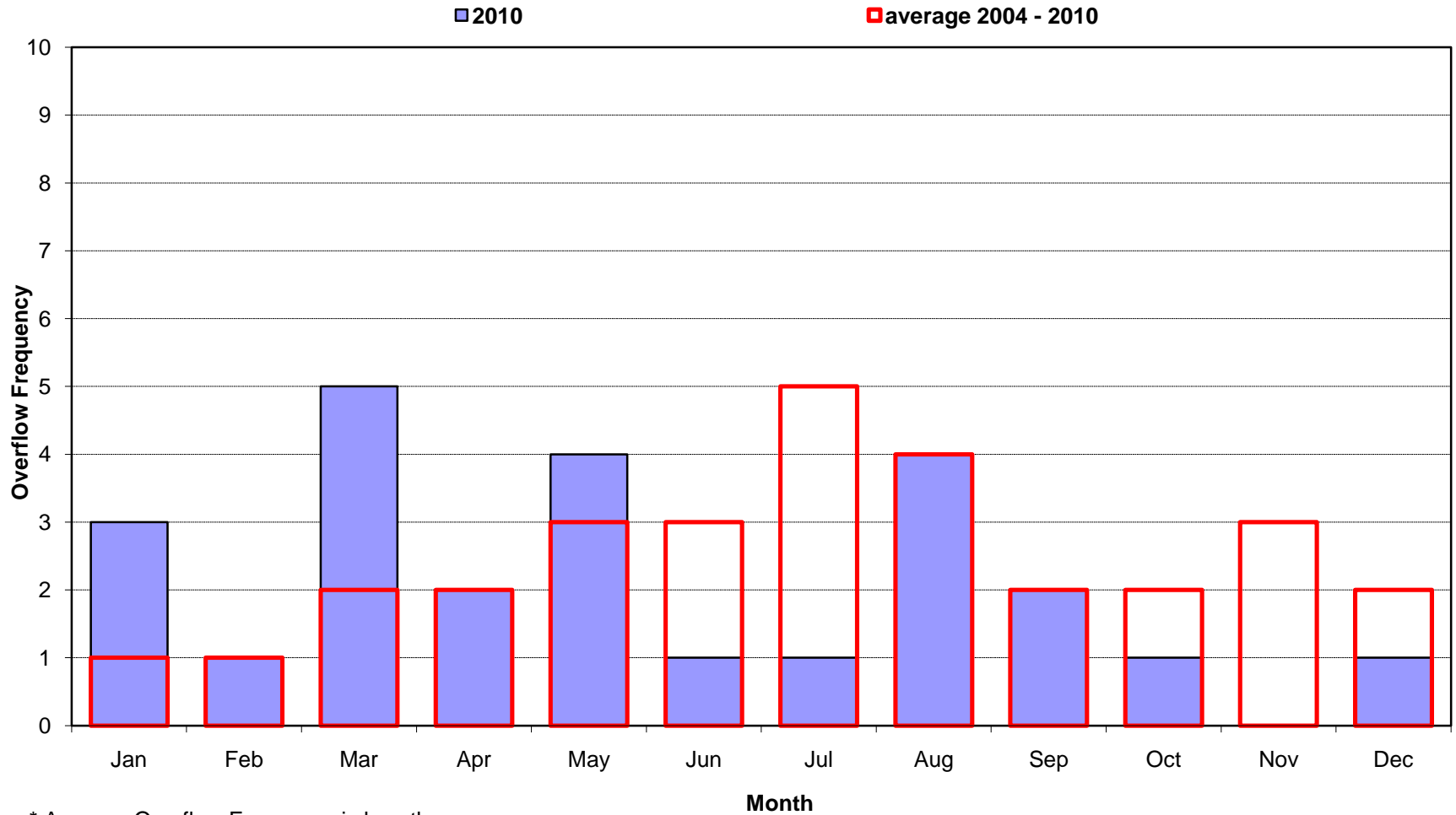
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
1	3.22	72	0.82	0.21	3

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 013 Maury St. 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 014 Stockton St. - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	4.10	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

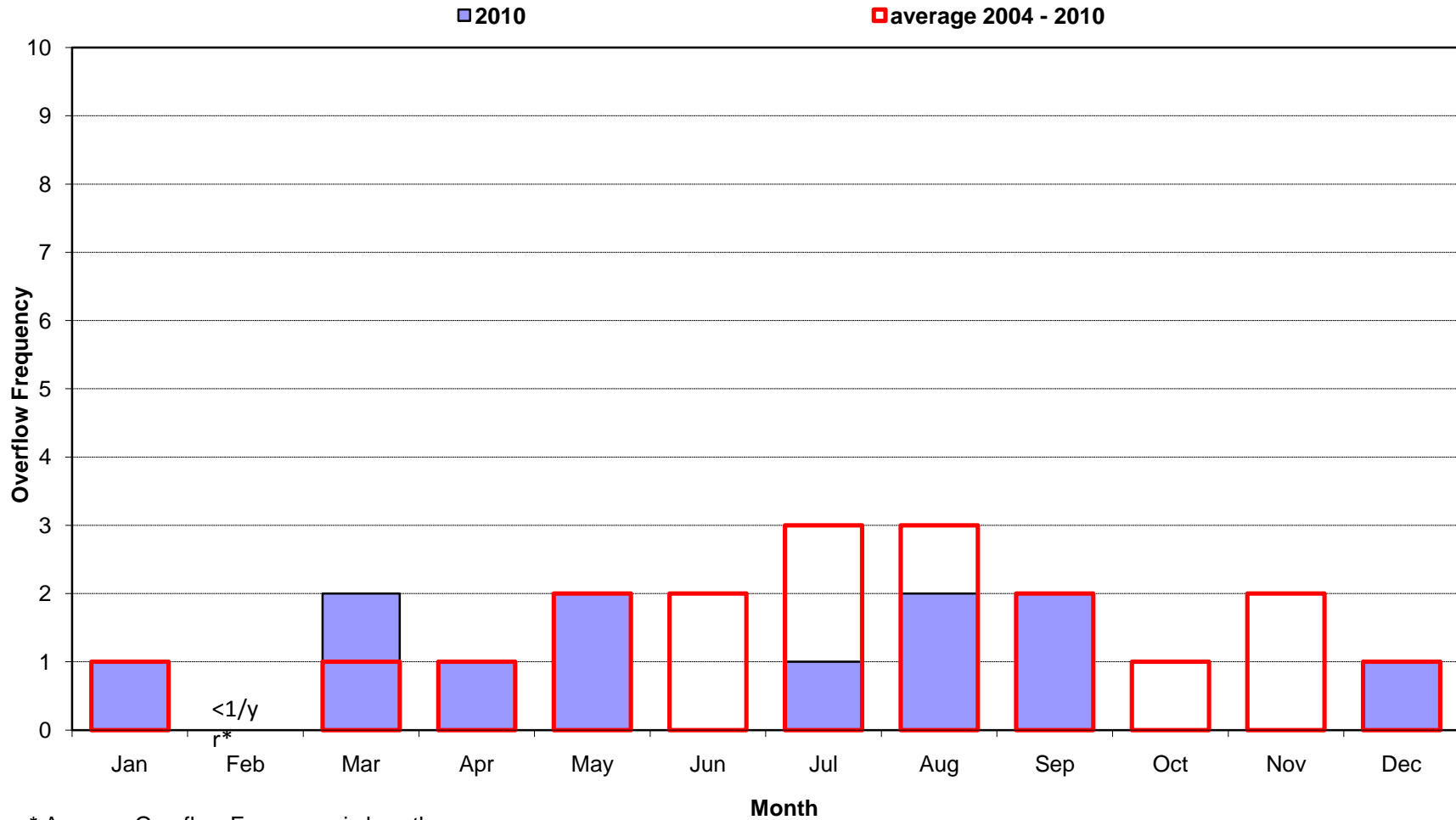
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
1	3.22	72	0.82	4.10	3

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 014 Stockton St. 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 015 Canoe Run - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

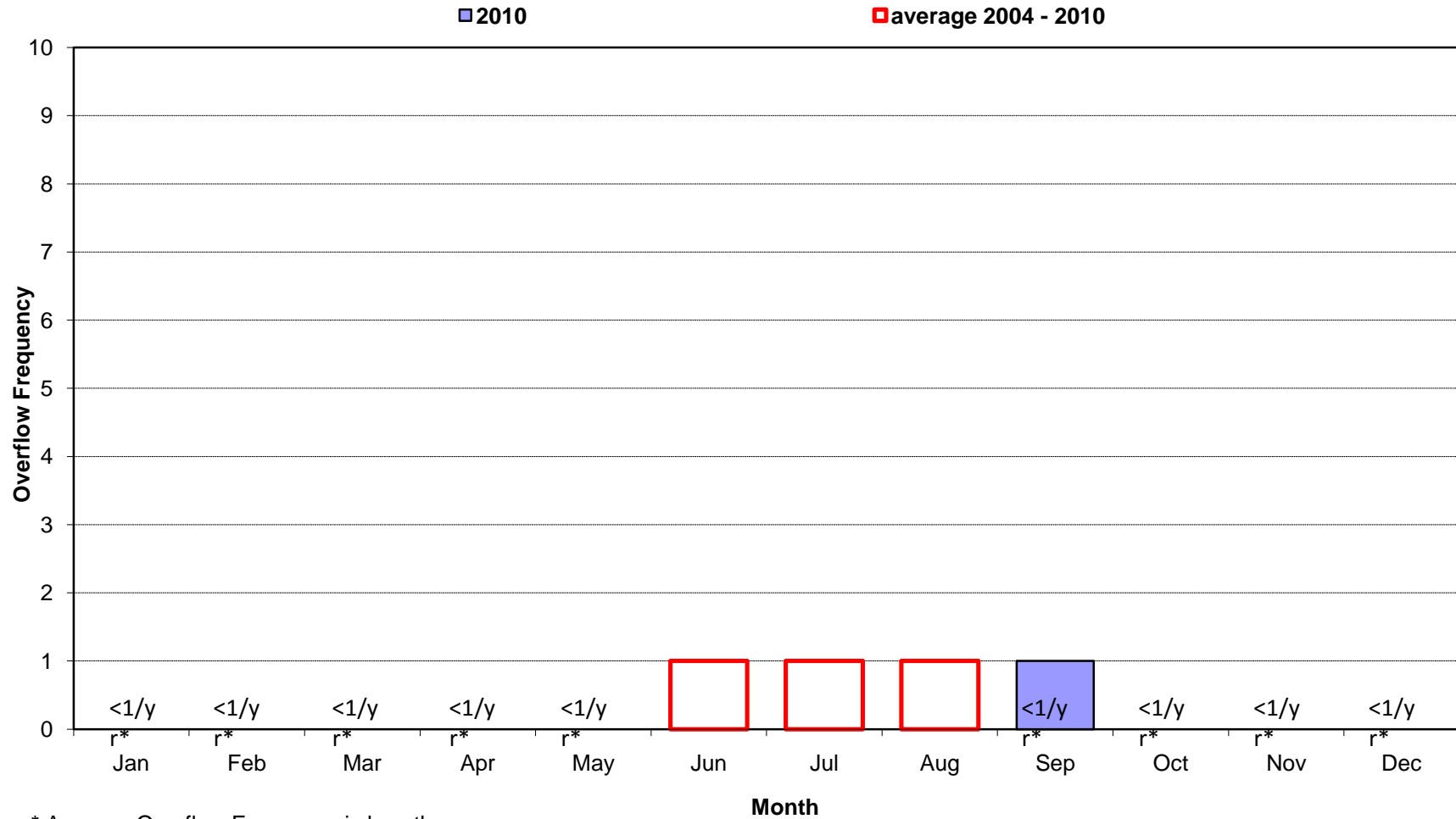
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 015 Canoe Run 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 016 Woodland - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

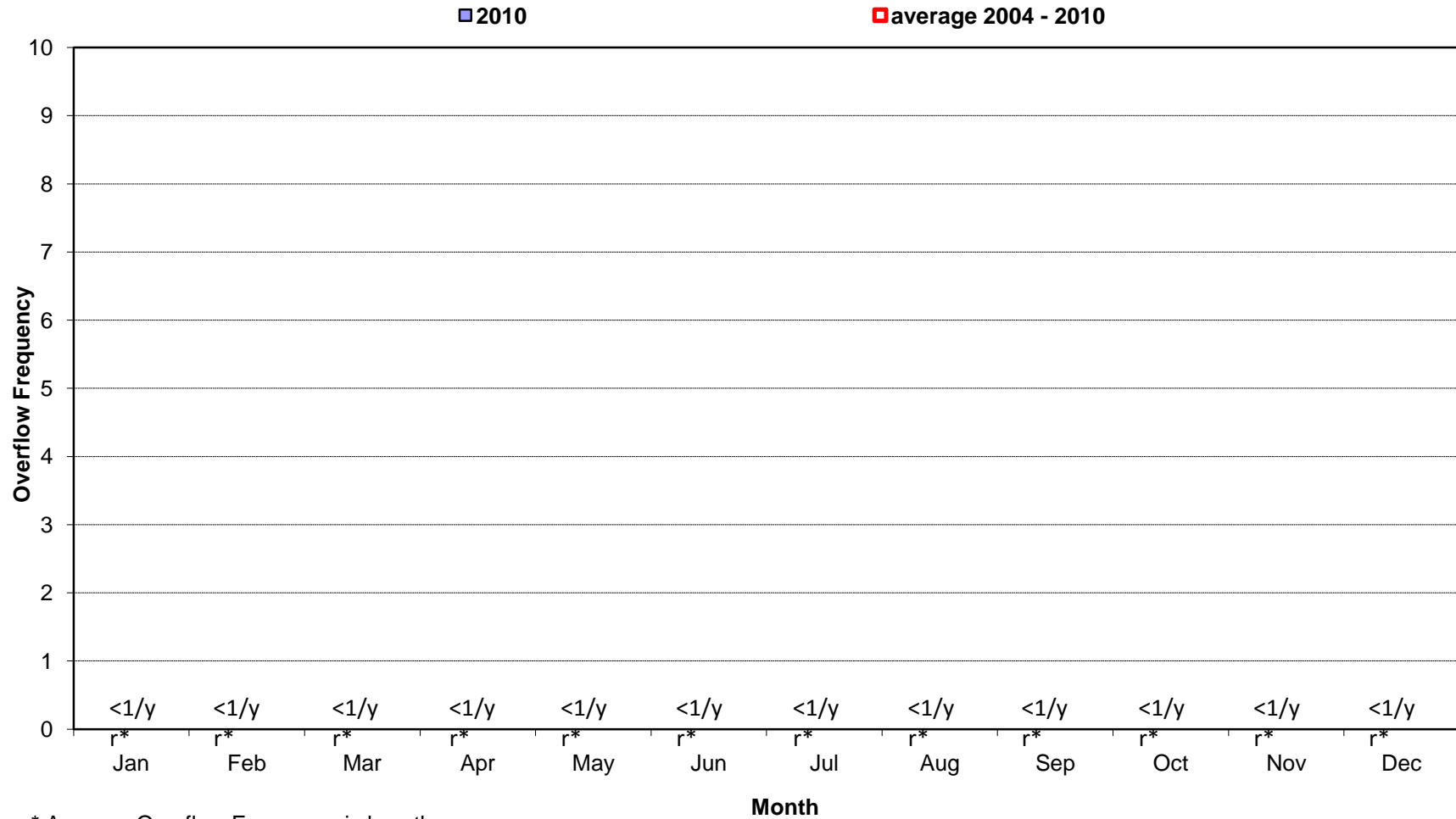
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 016 Woodland 2004 - 2010



CSO Outfall 017 Reedy Cr. - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

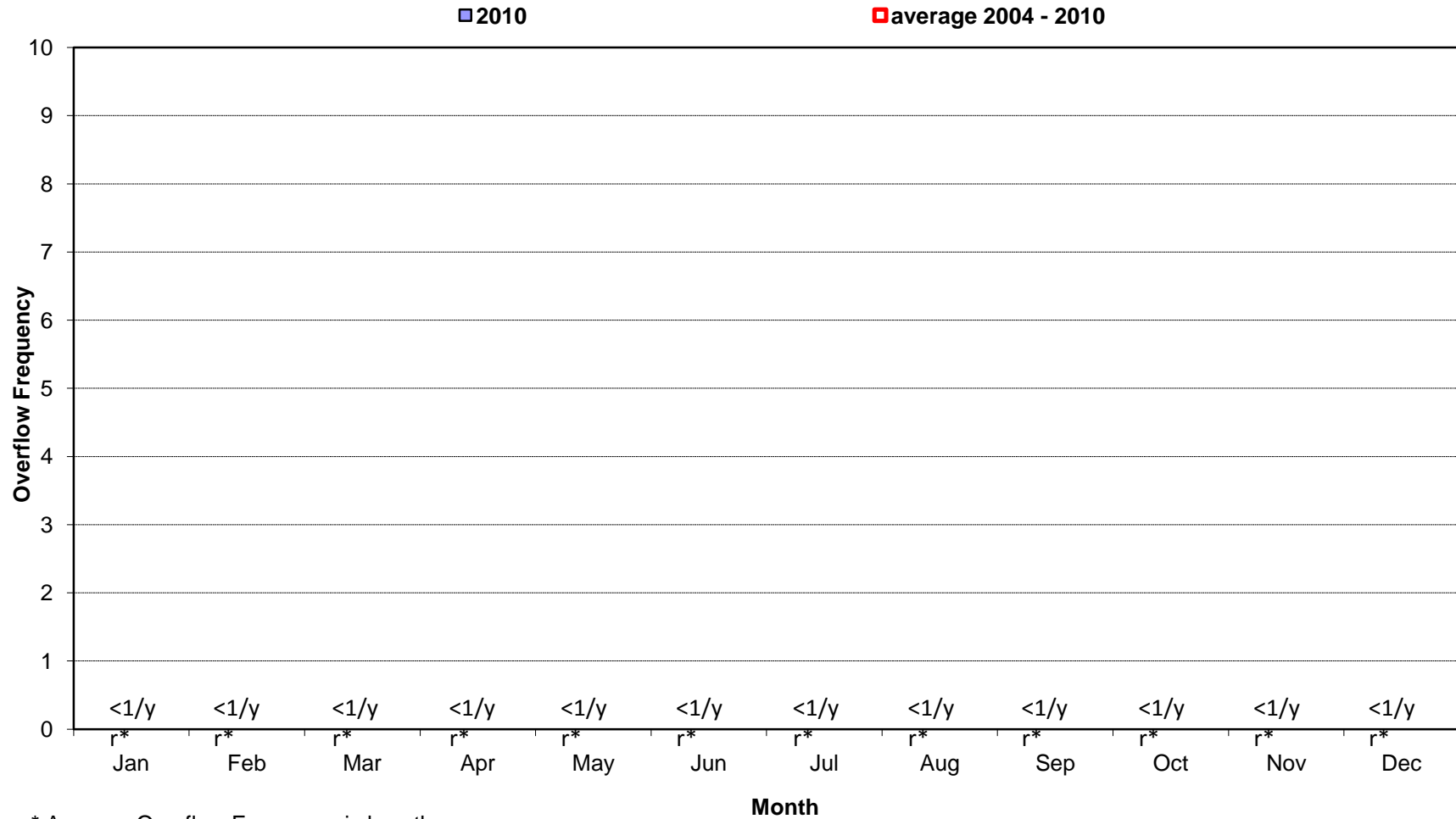
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 017 Reedy Cr. 2004 - 2010



CSO Outfall 018 42nd Street - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

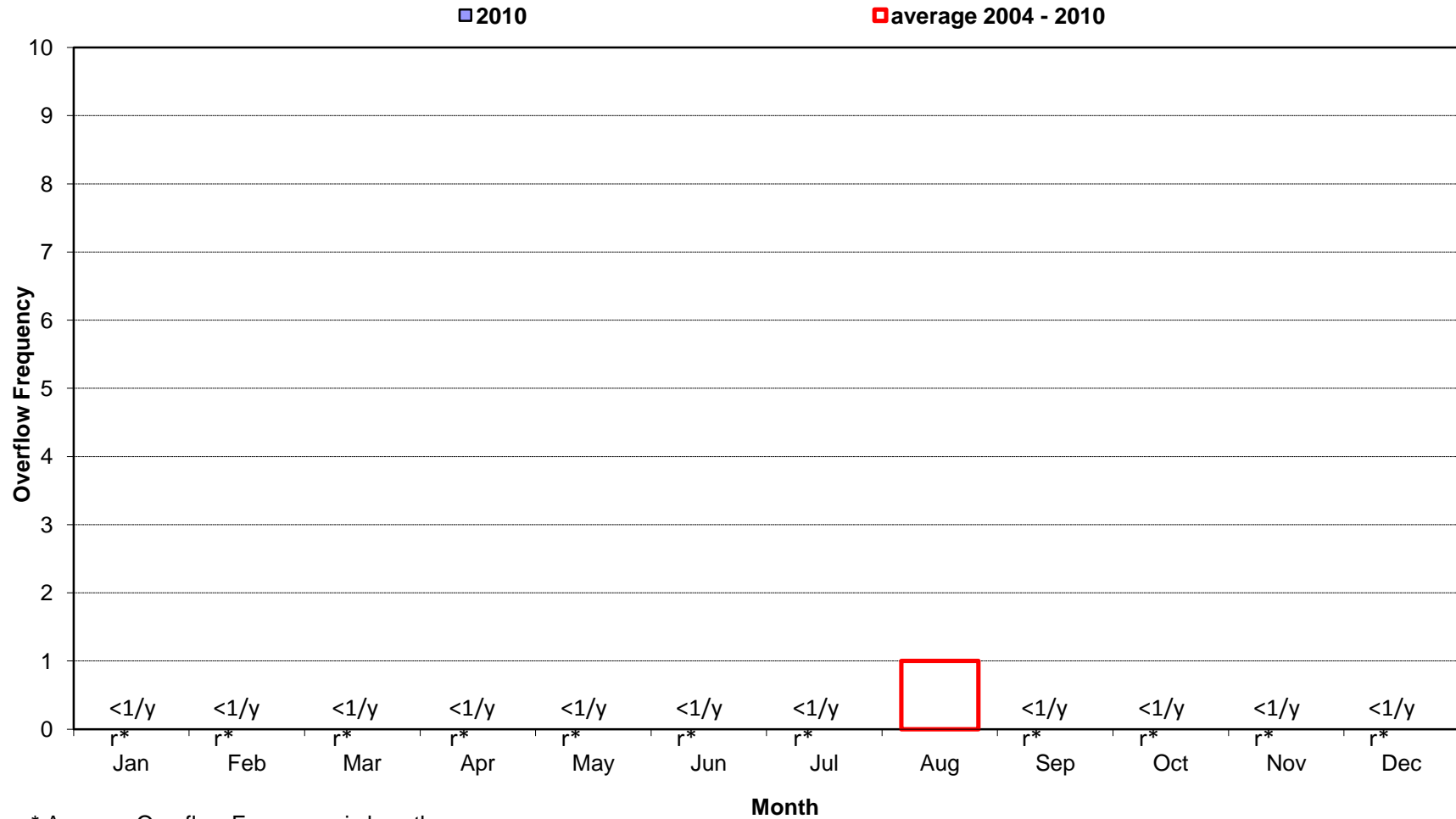
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 018 42nd Street 2004 - 2010



CSO Outfall 019 Hampton, NY - 2010

Rainfall and Overflow Model Summary

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

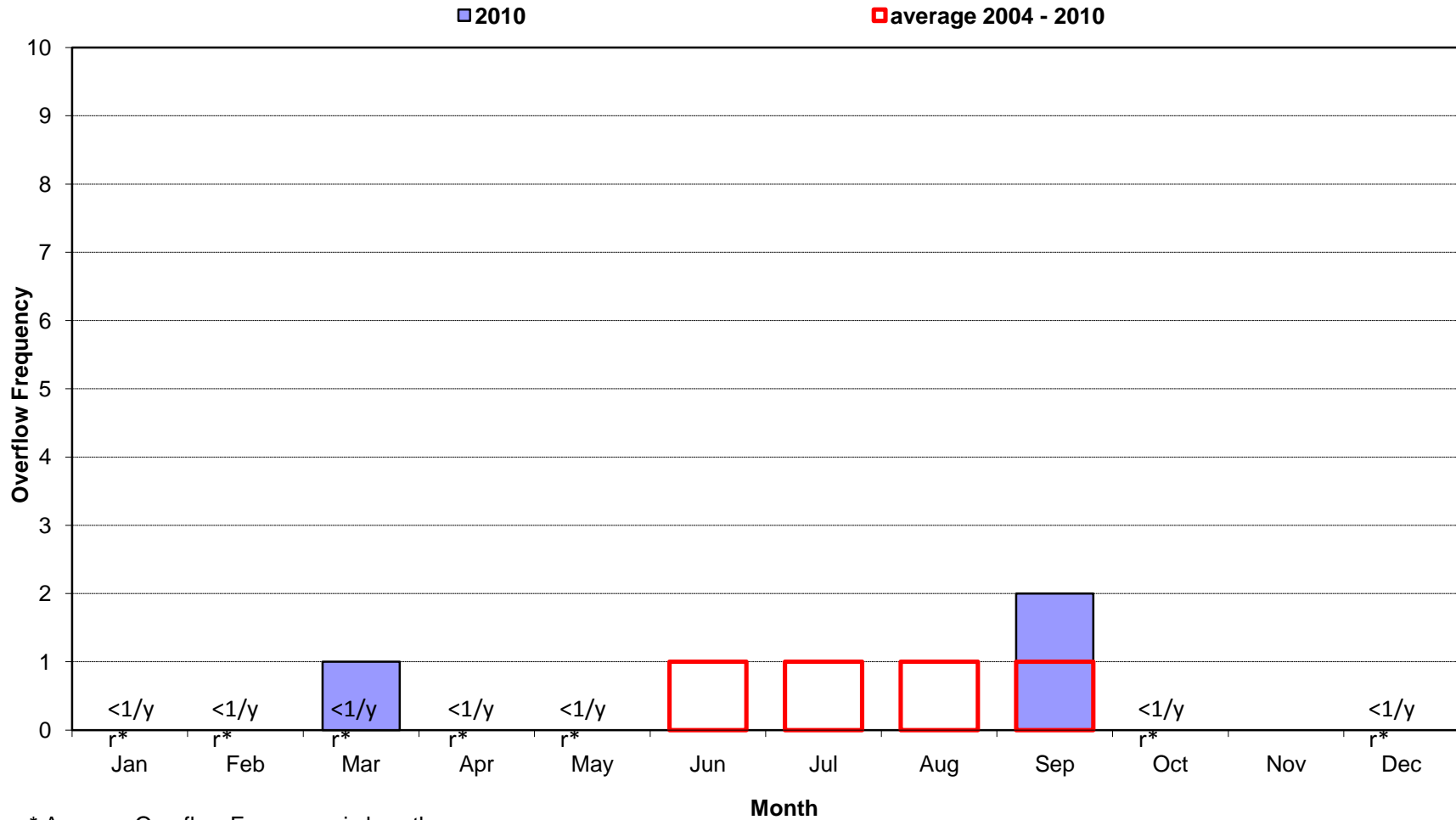
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 019 Hampton, NY 2004 - 2010



CSO Outfall 020 McCloy - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

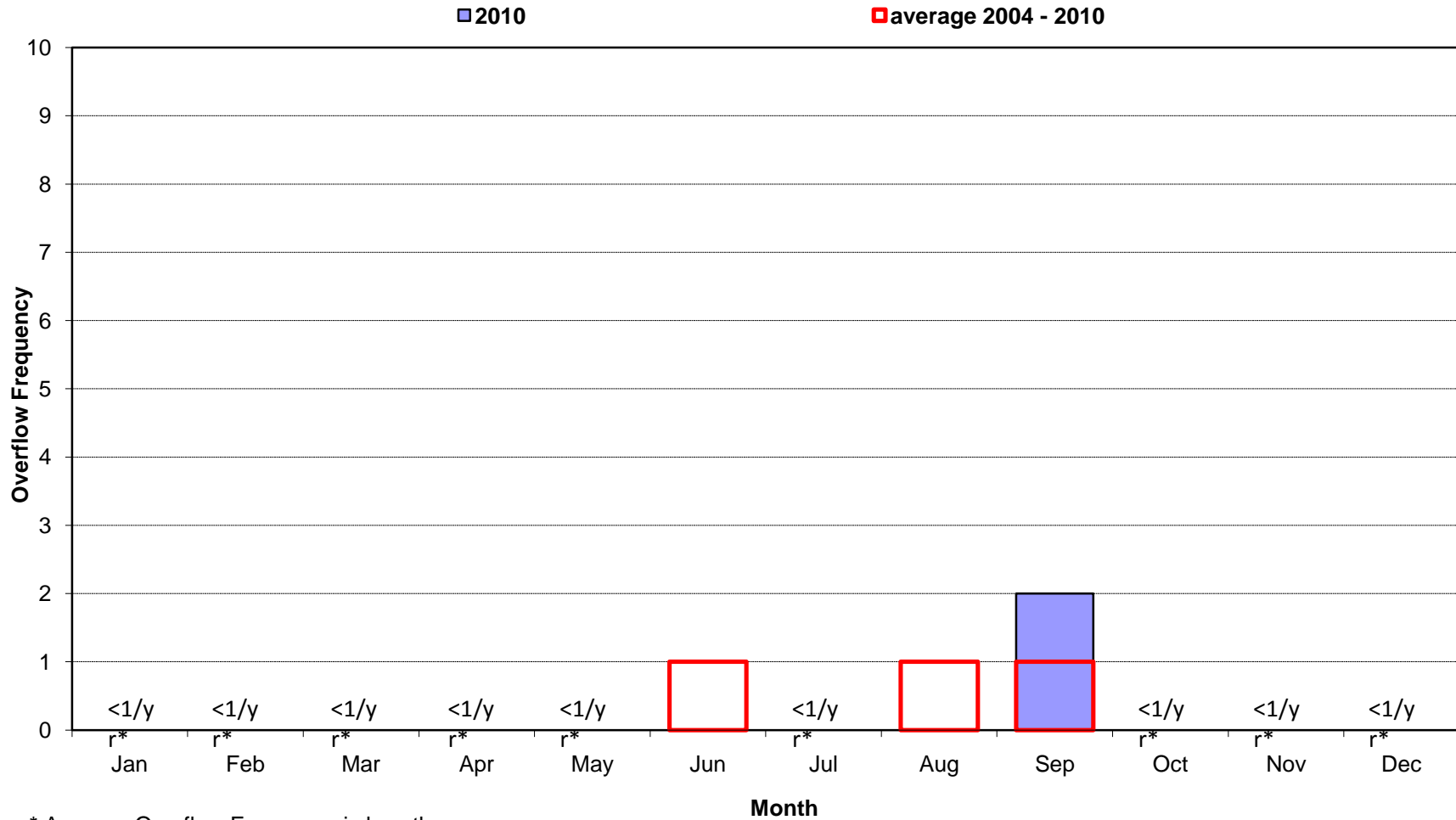
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 020 McCloy 2004 - 2010



CSO Outfall 021 Gordon Ave. - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	6.43	4
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10	1	0.56	12	0.17	1.14	11
12/12/10	1	0.76	23	0.09	0.98	8
12/13/10	1				0.06	3
12/14/10						
12/15/10						
12/16/10	1	0.20	9	0.05	0.02	2
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10	1	0.13	8	0.04	0.00	2
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

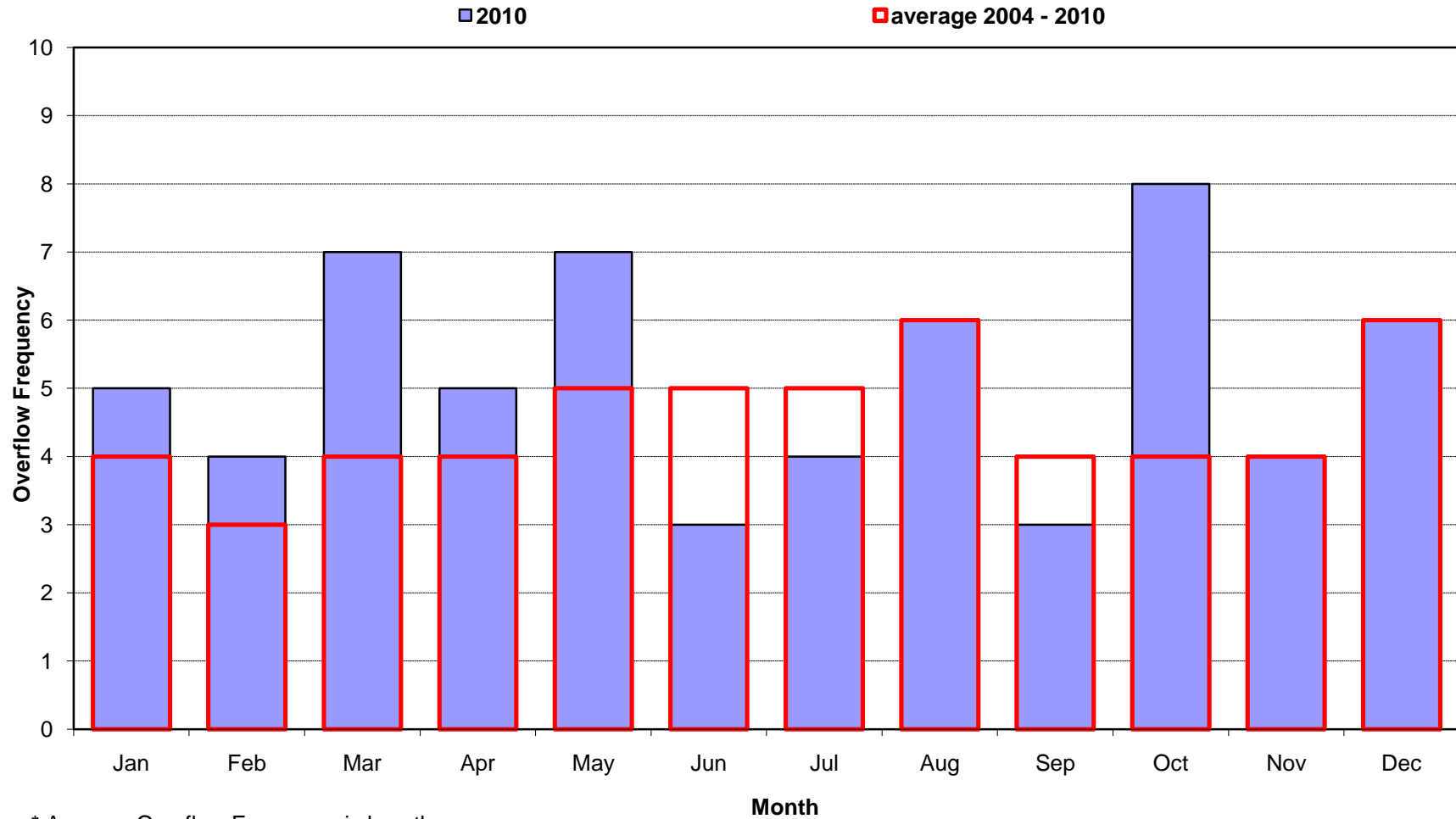
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
6	3.22	72	0.82	8.62	30

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 021 Gordon Ave. 2004 - 2010



* Average Overflow Frequency is less than once per year

**CSO Outfall 023 Old Ful St. Br. - 2010
Rainfall and Overflow Model Summary**

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

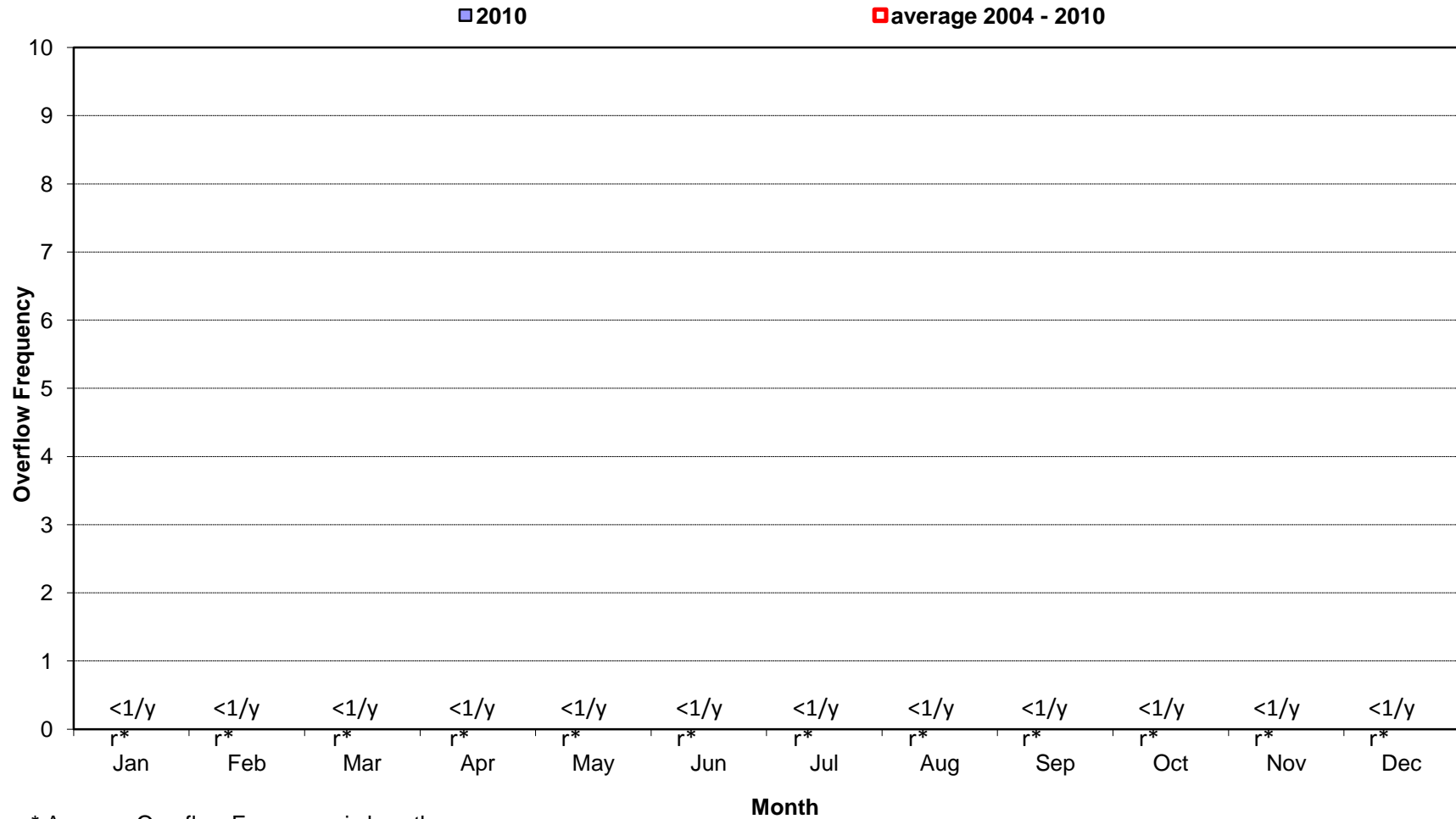
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 023 Old Ful St. Br. 2004 - 2010



**CSO Outfall 024 Gillies & Varina - 2010
Rainfall and Overflow Model Summary**

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	1.00	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10	1	0.76	23	0.09	0.07	2
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

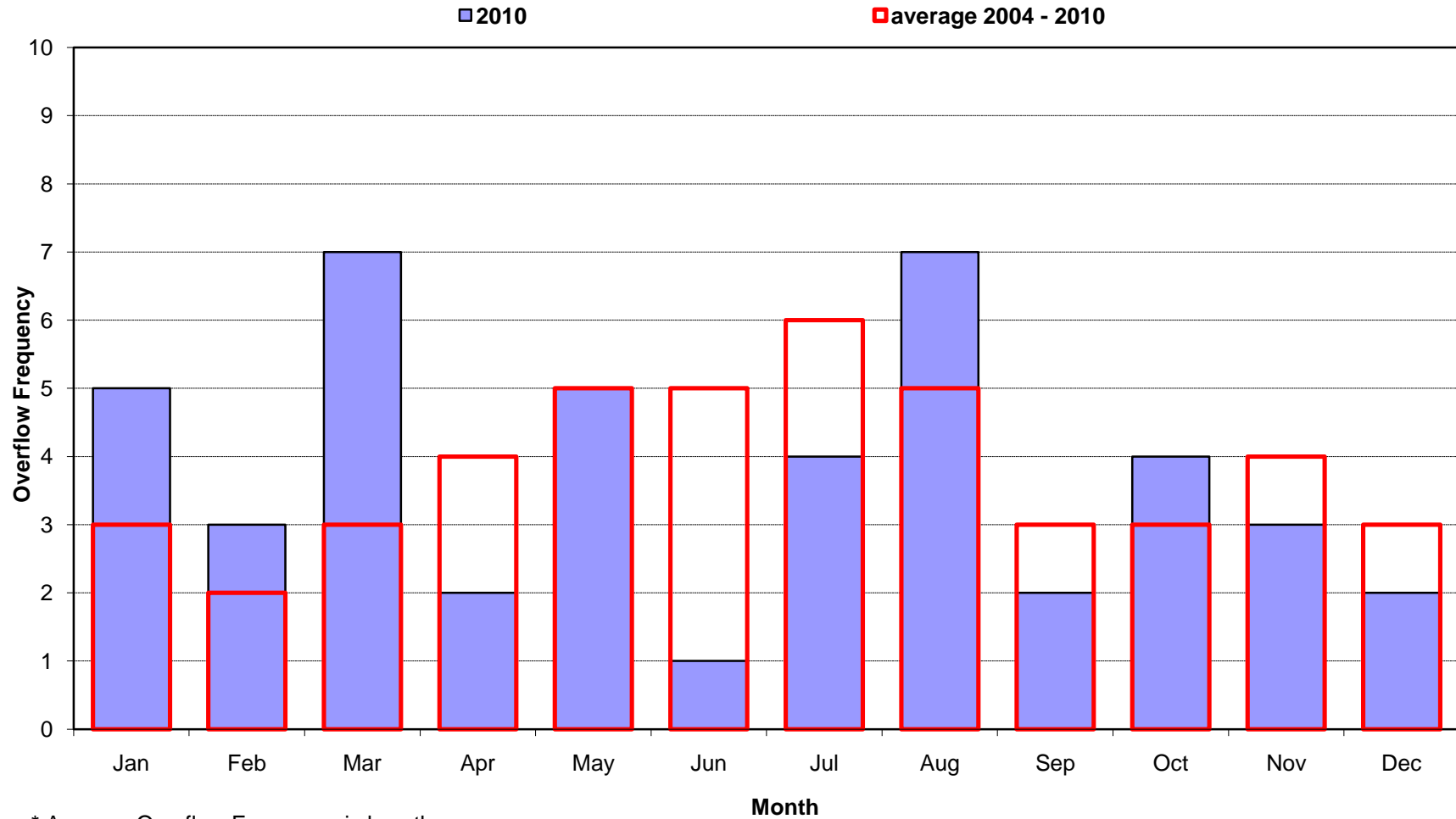
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
2	3.22	72	0.82	1.07	5

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 024 Gillies & Varina 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 025 Briel & Gillies Cr. - 2010

Rainfall and Overflow Model Summary

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	0.66	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10	1	0.76	23	0.09	0.03	2
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

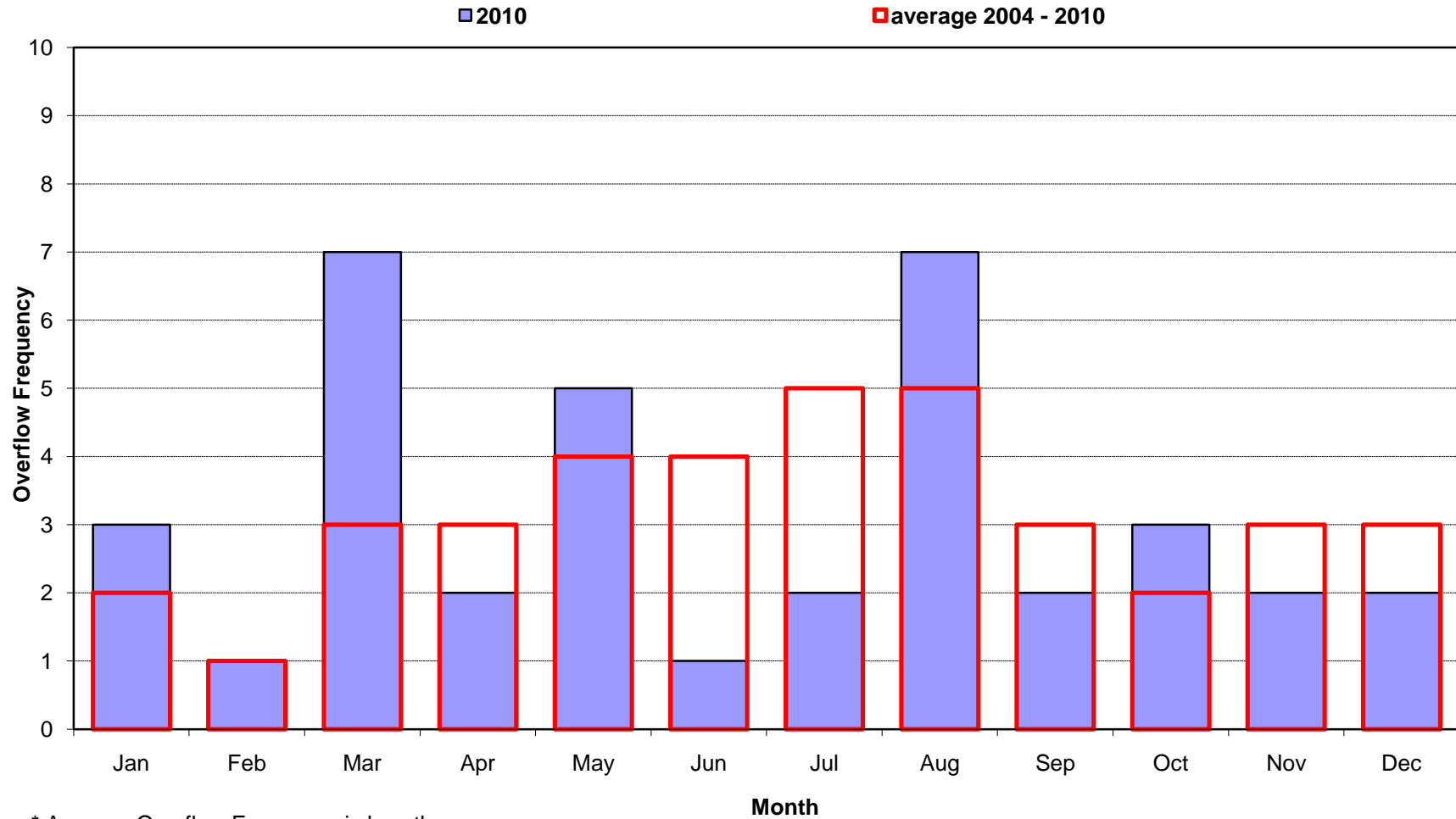
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
2	3.22	72	0.82	0.69	5

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 025 Briel & Gillies Cr. 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 026 Gov't Road & NSRR - 2010

Rainfall and Overflow Model Summary

Current Month: **December 2010**

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	0.26	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10	1	0.76	23	0.09	0.01	1
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

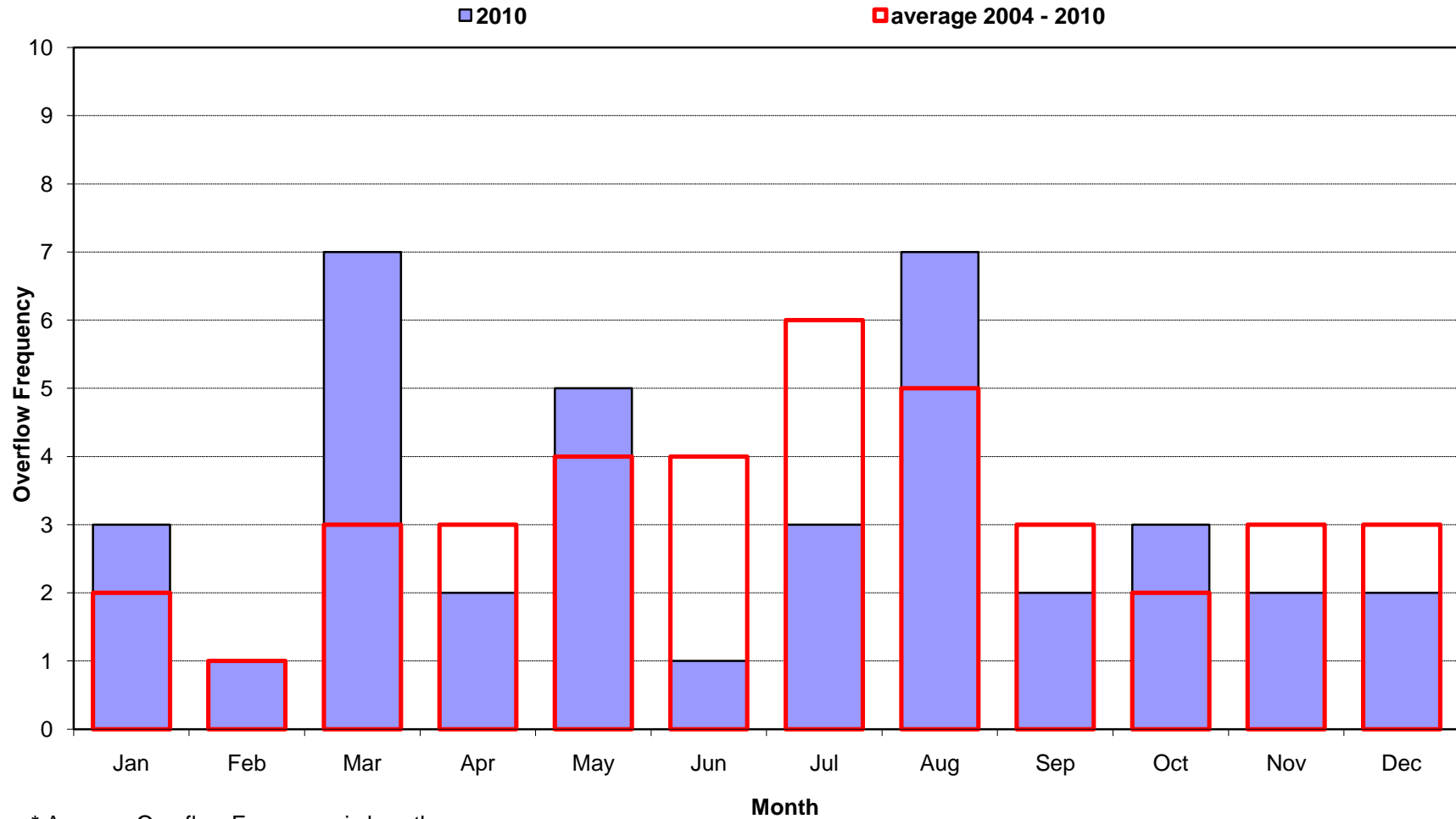
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
2	3.22	72	0.82	0.27	4

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 026 Gov't Road & NSRR 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 027 New W'Burg Rd. - 2010

Rainfall and Overflow Model Summary

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

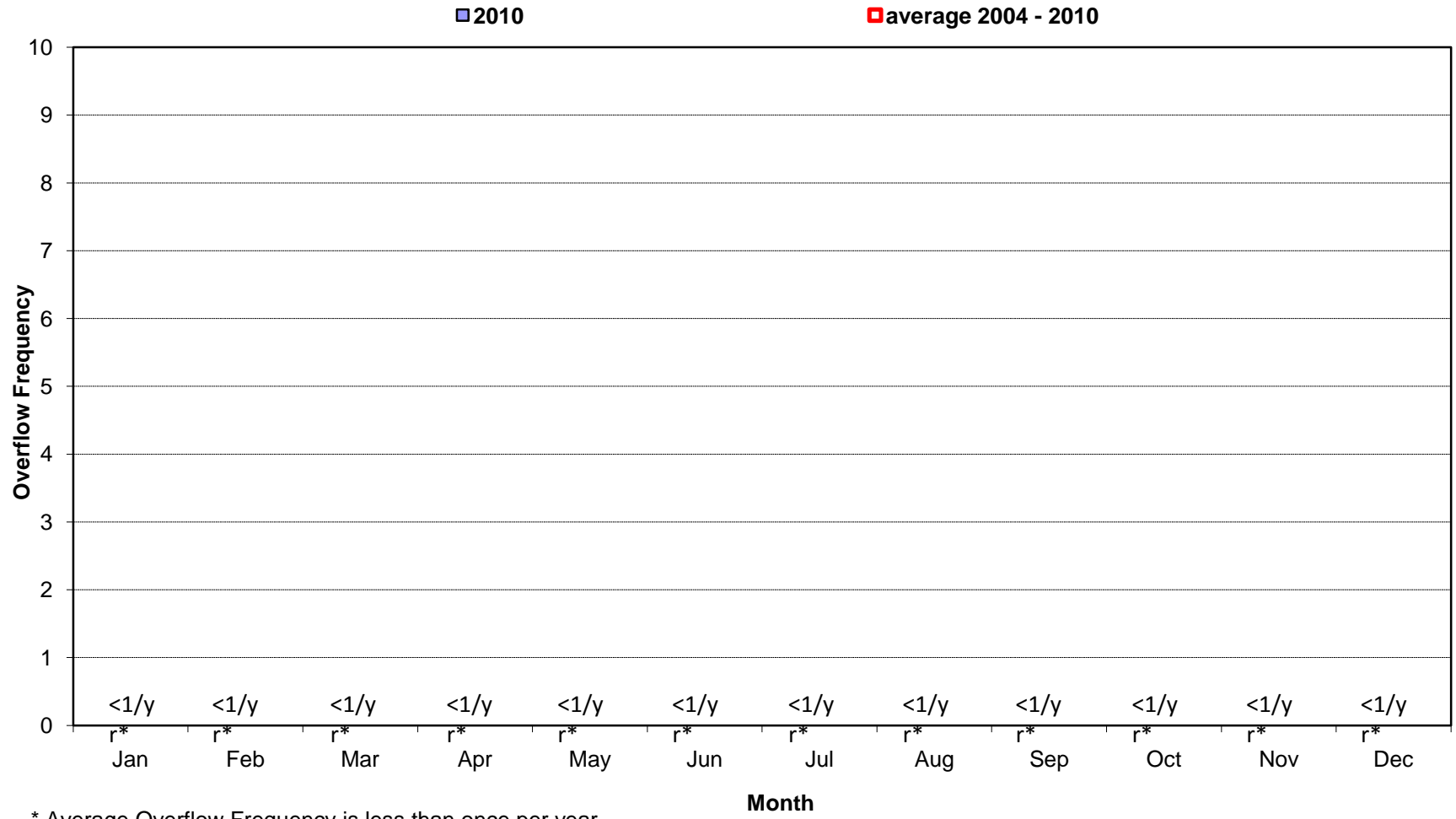
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 027 New W'Burg Rd. 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 028 W'Burg Rd. - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	0.30	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

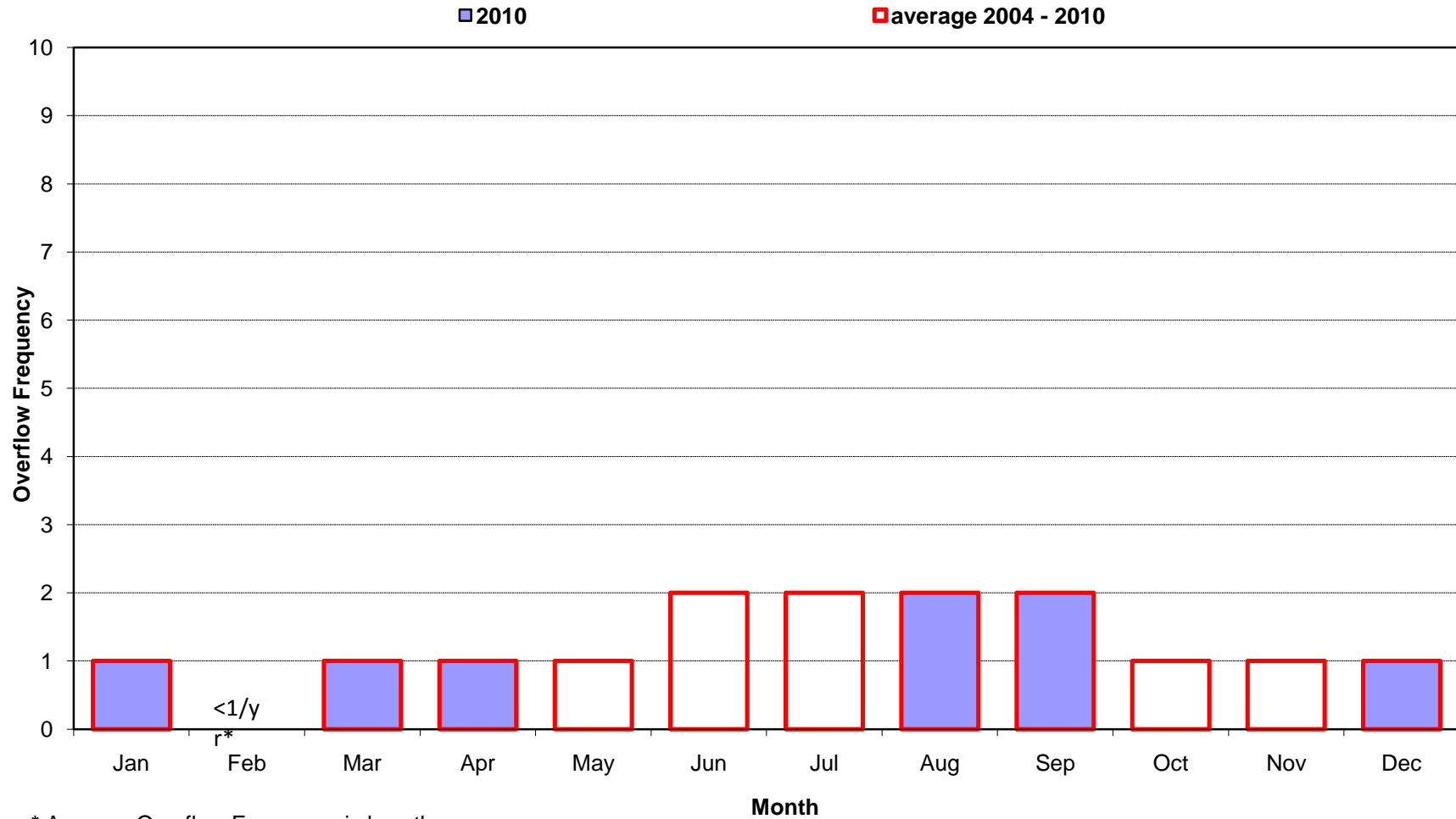
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
1	3.22	72	0.82	0.30	3

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 028 W'Burg Rd. 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 031 Oak'Wd Cem. - 2010

Rainfall and Overflow Model Summary

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	0.34	2
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

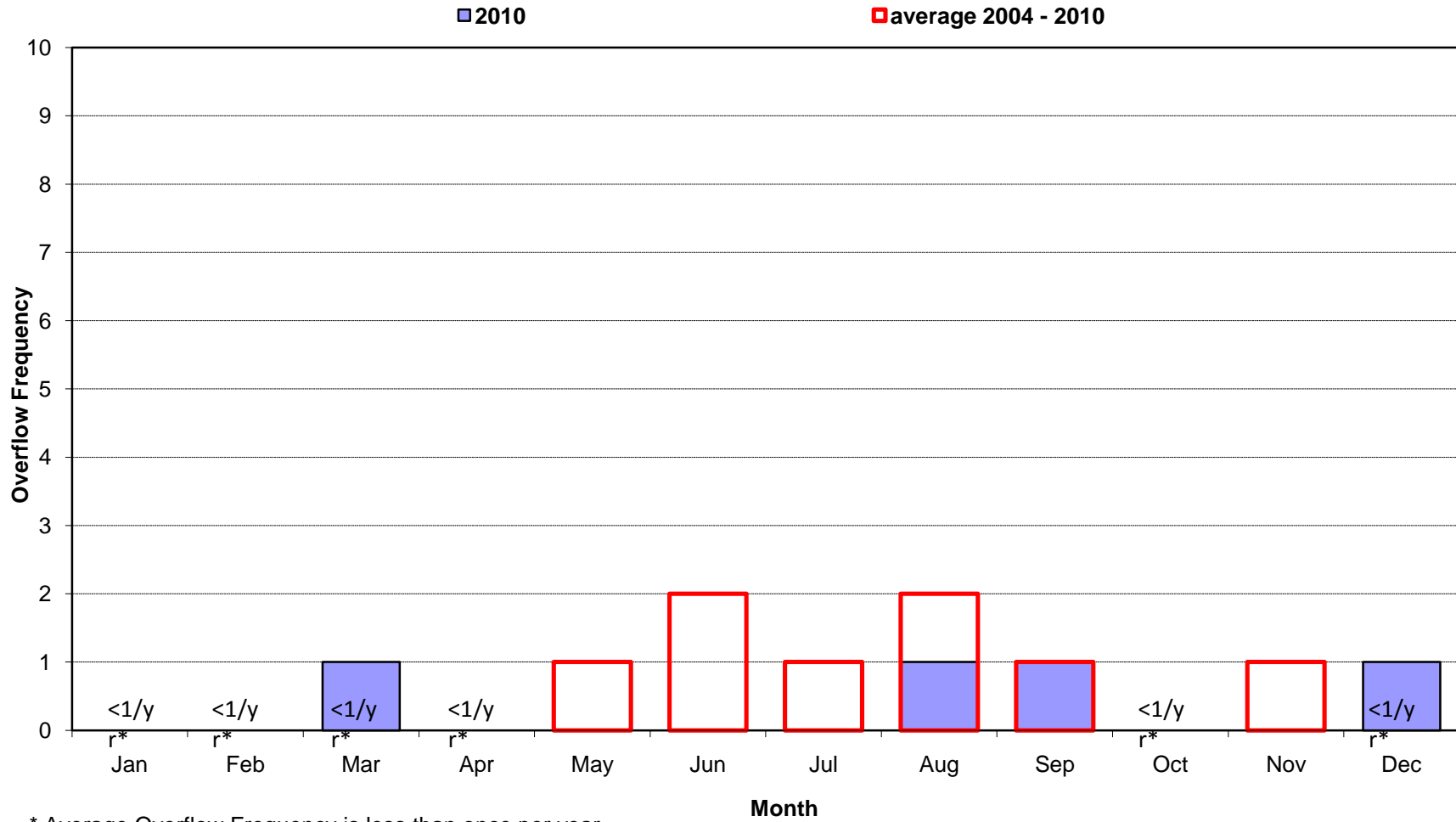
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
1	3.22	72	0.82	0.34	2

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 031 Oak'Wd Cem. 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 033 Shields Lake - 2010

Rainfall and Overflow Model Summary

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

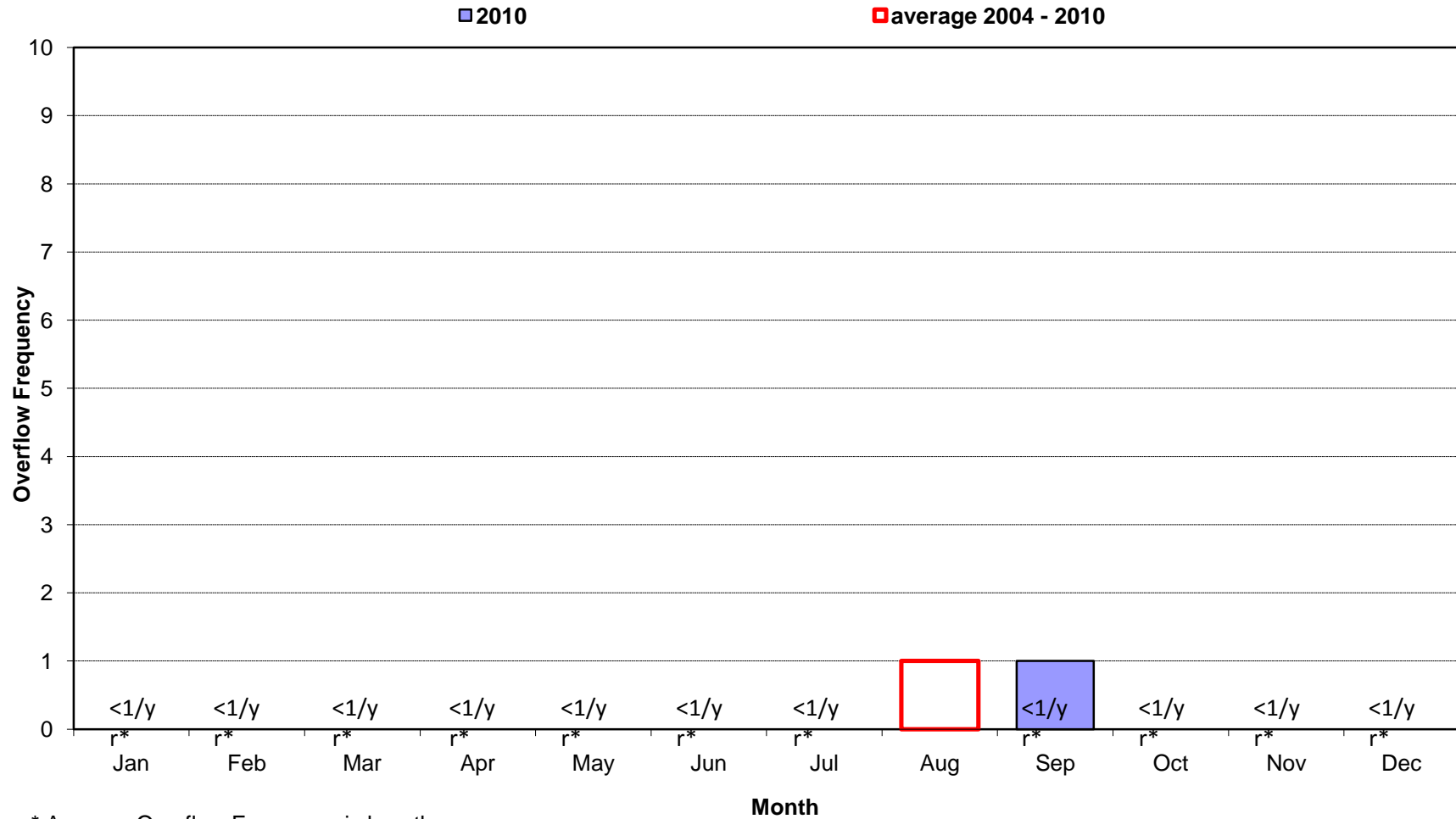
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 033 Shields Lake 2004 - 2010



CSO Outfall 034 19th & Dock - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	3.24	3
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10	2	0.76	23	0.09	0.41	8
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

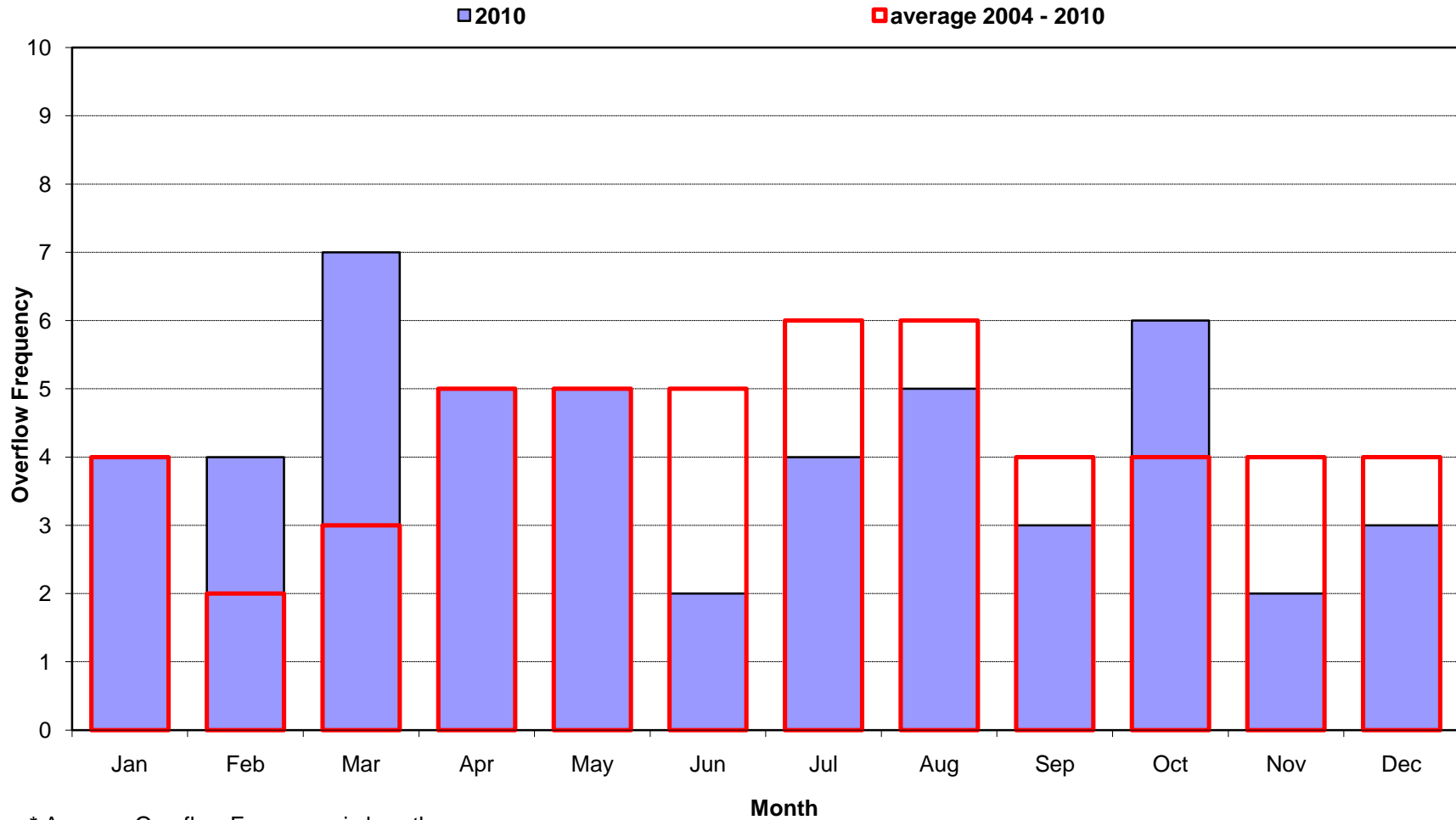
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	3.22	72	0.82	3.65	11

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 034 19th & Dock 2004 - 2010



* Average Overflow Frequency is less than once per year

**CSO Outfall 035 29th & Dock - 2010
Rainfall and Overflow Model Summary**

Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10		1.33	9	0.82	none	none
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10		0.76	23	0.09	none	none
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

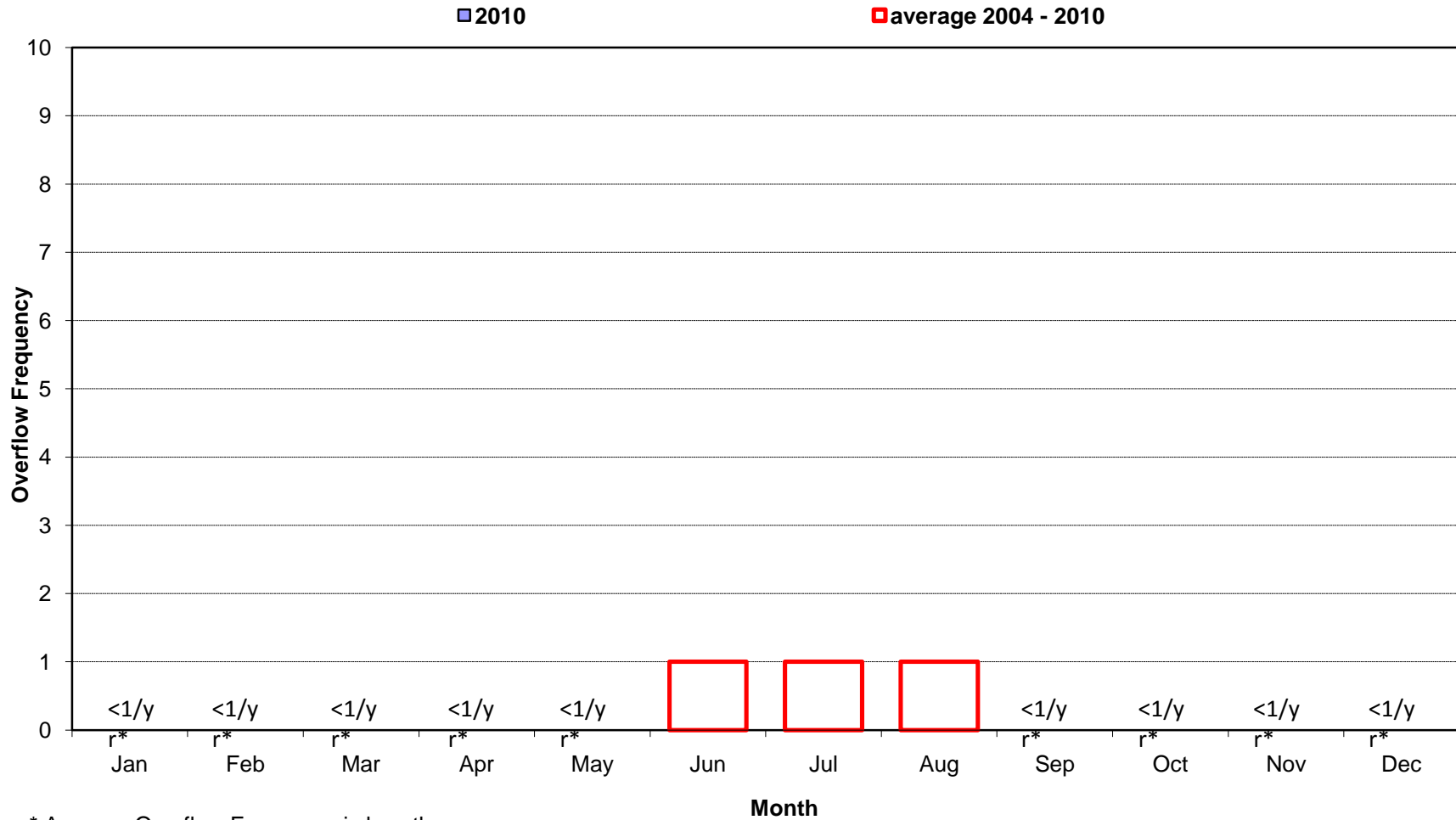
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	3.22	72	0.82		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 035 29th & Dock 2004 - 2010



CSO Outfall 039 Gov't Road & Gillies - 2010

Rainfall and Overflow Model Summary

Current Month: **December 2010**

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	1.31	4
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10	2	0.76	23	0.09	0.10	3
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

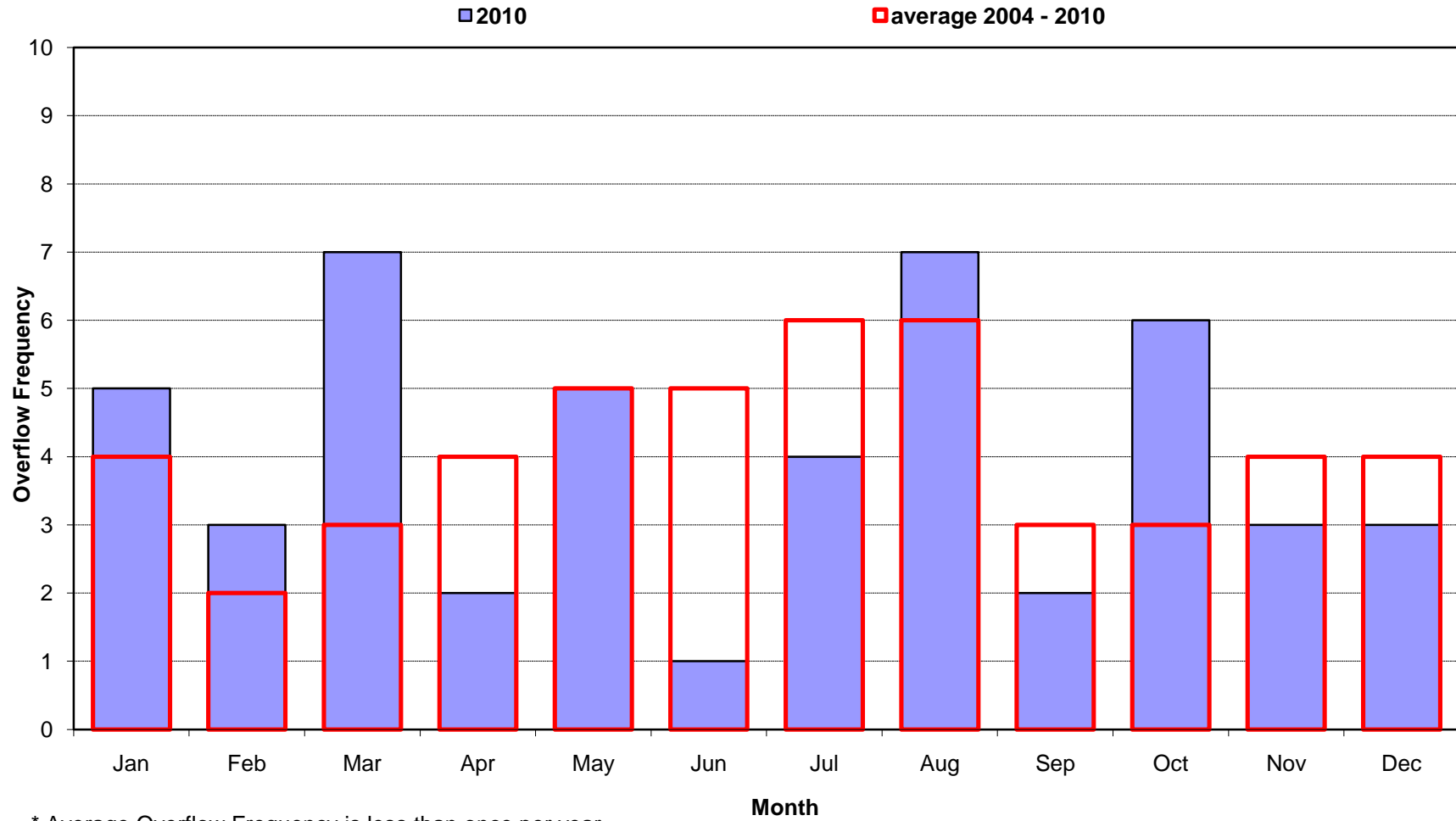
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	3.22	72	0.82	1.41	7

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 039 Gov't Road & Gillies 2004 - 2010



* Average Overflow Frequency is less than once per year

CSO Outfall 040 Diffuser - 2010
Rainfall and Overflow Model Summary
Current Month: December 2010

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/10	1	1.33	9	0.82	7.30	5
12/2/10						
12/3/10						
12/4/10		0.01	1	0.01	none	none
12/5/10						
12/6/10						
12/7/10						
12/8/10						
12/9/10						
12/10/10						
12/11/10		0.56	12	0.17	none	none
12/12/10	2	0.76	23	0.09	1.47	14
12/13/10						
12/14/10						
12/15/10						
12/16/10		0.20	9	0.05	none	none
12/17/10						
12/18/10						
12/19/10						
12/20/10						
12/21/10						
12/22/10						
12/23/10						
12/24/10						
12/25/10		0.23	10	0.04	none	none
12/26/10		0.13	8	0.04	none	none
12/27/10						
12/28/10						
12/29/10						
12/30/10						
12/31/10						

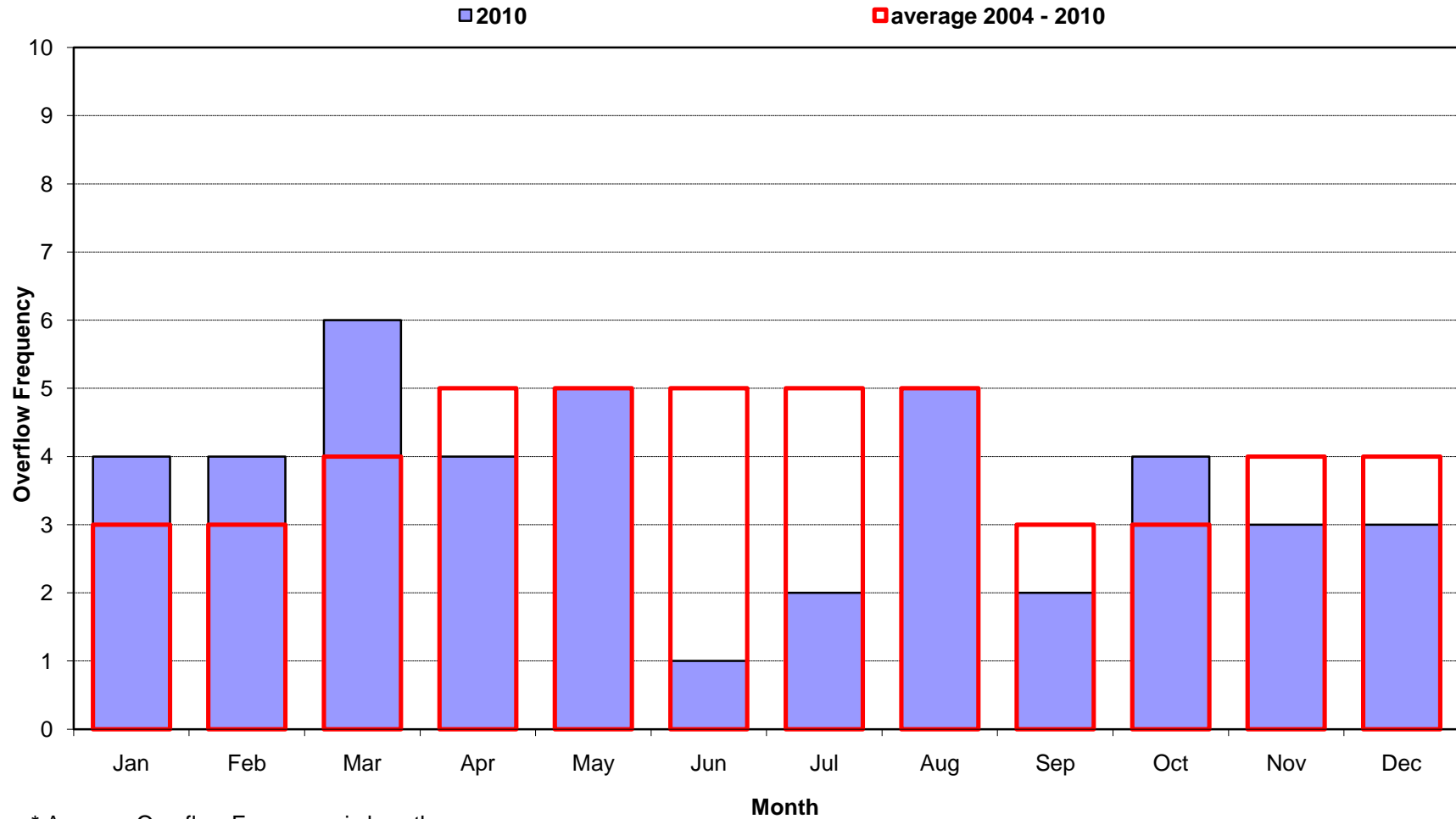
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	3.22	72	0.82	8.77	19

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 040 Diffuser 2004 - 2010



* Average Overflow Frequency is less than once per year