

2017 Summary of Metro Headworks Bypass Events

Year	Total Rainfall (Inches) ¹	Number of Events ²	Number During Disinfection Season	Number Due to Reduced Capacity	Event Duration (Hours)			Event Volume (MG)			Total Bypass Volume (MG)
					Ave	Min	Max	Ave	Min	Max	
2005	34.4	2	0	1	5.13	1.87	8.4	21.48	2.22	40.74	42.96
2006	42.7	2	2	2	4.18	1.75	6.62	57.52	12.54	102.49	115.03
2007	36.2	6	1	5	7.54	0.07	23.98	4.06	0.19	17.73	24.37
2008	35.5	2	1	2	1.48	1.02	1.93	2.62	0.12	5.13	5.25
2009	33.9	5	2	0	4.81	1.05	11.38	10.64	0.16	36.04	53.19
2010	38.6	4	4	4	5.58	3.12	7.98	10.73	6.01	20.19	42.91
2011	46.4	2	2	1	12.11	1.52	22.7	2.69	0.14	5.24	5.38
2012	31.7	0	0	0	0	0	0	0	0	0	0
2013 ³	41.8	11	10	11	2.56	0.03	8.52	6.49	<0.001	29.63	71.37
2014 ³	39.8	15	12	15	2.66	0.07	21.0	2.20	<0.001	25.65	33.04
2015	40.3	1	1	0	1.6	1.6	1.6	0.65	0.65	0.65	0.65
2016 ⁴	39.64	23	14	23	2.85	0.28	10.27	4.04	0.04	22.17	93.00
2017 ^{4,5}	45.67	20	8	16	3.70	0.08	11.92	8.56	0.01	61.94	171.21

¹Rainfall data is from the Metro rain gauge.

²The March 21, 2012 permit renewal revised the definition of a bypass event from "A bypass event starts at the moment wastewater overflows the bypass tank and continues until 24 hours from that time" to "the moment wastewater overflows the bypass tank and continues until the overflow from the bypass tank stops".

³2013 and 2014 dates coincide with reduced capacity due to the Metro Grit Improvement Project. The project was substantially complete by the scheduled completion date of October 15, 2015.

⁴Plant capacity was reduced during 2016 and 2017 due to the Secondary Bypass Tank construction project, which began in March 2016 and was substantially complete by April 1, 2017. Plant capacity was reduced during May 2017 due to additional construction activity related to the Secondary Bypass Tank project, involving construction of the new and unforeseen o02 outfall effluent channel.

⁵Plant capacity was reduced during November 2017 due to a return activated sludge (RAS) line repair.