

Library Reference 4.2

Secondary Bypass Volumes (Outfall 002), 2011

Start Date	Duration (Hours)	Million Gallons
1/1/11	9.42	1.38
2/14/11	2.75	0.99
2/18/11	23.58	39.19
2/19/11	8.28	0.47
2/28/11	16.65	19.28
3/5/11	23.65	33.90
3/6/11	14.98	7.30
3/7/11	8.45	1.73
3/8/11	16.53	3.39
3/10/11	23.50	50.08
3/11/11	24.00	46.61
3/12/11	23.08	22.67
3/13/11	24.00	9.90
3/14/11	12.58	2.11
3/15/11	14.78	2.36
3/16/11	11.97	1.20
3/17/11	11.13	0.62
3/18/11	2.65	0.09
3/21/11	11.10	4.45
3/24/11	3.23	0.23
4/4/11	8.38	4.91
4/5/11	5.78	1.10
4/13/11	5.38	2.38
4/17/11	14.27	7.28
4/20/11	19.12	23.17
4/23/11	23.50	27.35
4/24/11	20.50	5.79
4/25/11	22.68	29.99
4/26/11	24.08	61.32
4/27/11	24.00	55.72
4/28/11	24.00	45.57
4/29/11	23.80	14.81
4/30/11	15.20	2.13
5/1/11	4.97	0.24
5/2/11	7.62	3.59
5/3/11	24.00	34.68

Start Date	Duration (Hours)	Million Gallons
5/4/11	19.08	6.87
5/5/11	5.12	0.21
5/15/11	13.13	10.90
5/16/11	10.42	5.87
5/27/11	4.85	4.10
6/11/11	8.48	4.08
6/22/11	5.92	3.55
6/23/11	3.50	1.59
6/28/11	1.82	0.81
7/18/11	6.53	4.98
7/26/11	1.28	0.19
7/29/11	2.68	2.13
8/3/11	2.95	2.98
8/7/11	1.47	0.97
8/9/11	5.00	6.23
8/10/11	4.25	3.74
8/14/11	1.28	0.27
8/15/11	3.17	1.44
8/21/11	1.18	0.49
8/25/11	3.20	2.47
8/28/11	13.93	15.21
9/5/11	2.93	0.52
9/7/11	22.57	45.49
9/8/11	11.42	7.83
9/29/11	11.42	10.86
10/2/11	3.88	1.86
10/15/11	1.48	0.76
10/20/11	2.93	1.84
10/27/11	6.10	1.81
11/14/11	5.70	8.36
11/22/11	19.60	17.57
11/29/11	2.18	2.01
12/21/11	4.10	2.61
12/23/11	3.58	1.90
Total	770.77	750.51

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General information:

The plant is designed to treat an average influent of 84.2 million gallons a day (mgd) of wastewater. Metro provides full secondary and tertiary treatment to flows up to 126 mgd; treated wastewater is discharged to the surface of Onondaga Lake through Metro Outfall 001. Flows greater than 126 mgd receive primary treatment and disinfection and are discharged to the lake through Bypass Outfall 002. During extended periods of high flow, flows in excess of the SEP's capacity (approximately 130mgd) are routed to the old tertiary bypass pump station overflow and discharged to Outfall 001.¹ On rare occasions of high rainfall and/or snowmelt, flows in the service area exceed Metro's primary treatment hydraulic capacity of 240 mgd and bypass the plant with a direct discharge to Onondaga Lake.²

Information for 2011:

Metro provided full treatment to an average flow of 66.9 mgd in 2011, which was discharged to the lake through Outfall 001. On an annual basis, this discharge summed to more than 24.3 billion gallons. An additional 750.5 million gallons were discharged through Bypass Outfall 002, and another 41 million gallons were discharged through Outfall 001 as a result of tertiary bypasses.

¹ Metropolitan Syracuse (Metro) Wastewater Treatment Plant Wet Weather Operating Plan, October 2011. (http://static.ongov.net/WEP/wepdf/Process/Metro_WWOP_Approved_Final_102011.pdf)

² Onondaga County Department of Water Environment Protection web site: <http://ongov.net/WEP/we1901.html>