



The Trenton Sewer Utility CSO Advisory System

The Trenton Sewer Utility (TSU) has established a “CSO Advisory System” in order to provide the public with real-time information related to Trenton’s sole Combined Sewer Overflow (CSO) located across the street from the TSU Sewage Treatment Plant on the Delaware River.

A CSO is a combination of storm water and wastewater flow which reaches such high volume levels that they cannot be completely conveyed by the sewer collection system or treated by the wastewater treatment plant. Because the system capacity is exceeded in these cases, the CSO discharges combined stormwater/wastewater directly into the Delaware River.

The TSU has only one outfall pipe located on the Delaware River adjacent to the Route 29 near the Lamberton Road exit. The CSO vault structure is easily seen via a biking/walking path along the river. The outfall is clearly marked with a warning sign, contact information and designation number (002A). The CSO outfall is also equipped with trash trapping structure. In order to protect equipment and safeguard against vandalism the area is securely fenced making it inaccessible to the general public at the point of discharge. The CSO is readily visible from the fishing pier to the south.

Due to a Detention Basin System which allows the Sewage Treatment Plant to store combined flow for later treatment, CSOs are quite rare averaging less than one event per year and only occur during extreme precipitation events (See below for a listing of past events). Ultrasonic level sensors located near the CSO provide TSU with live information including flow rate and total volume of flow being discharged into the river.

This website will post live and up to date starts and endings of CSO events.

**CSO (OUTALL #002A)
BYPASSES**

	Date	Discharge Duration	Gallons Discharged	Precipitation Amount	Precipitation Duration
1	8/21/1994 8/22/1994	2 hours, 35 minutes	*	4.91	14 hours
2	7/31/1996	25 minutes	*	3.00	> 1 hours
3	9/16/1999	9 hours	*	7.46	Hurricane Floyd **
4	9/28/2004 9/29/2004	6 hours, 30 minutes	*	5.23	Hurricane Jeanne 12 hours
5	10/8/2005 10/9/2005	2 hours, 30 minutes	*	5.06	**
6	4/15/2007	3 hours	*	6.00	**
7	8/14/2011	2 hours, 15 minutes	2,860,000	5.50	14 hours
8	8/27/2011 8/28/2011	(intermittent) 7 hours, 25 minutes	4,415,000	6.04	Hurricane Irene 24 hours
9	9/8/2011	(intermittent) 3.5 hours	336,000	3.50	(Intermittent) (Tropical Storm Lee) 44.5 hours
10	6/25/12	30 minutes	45,000	1.00	35 minutes
11	4/30/14	45 minutes	84,000	4.38	(intermittent-heavy at times) 33 hours
12	6/19/17	1 hour	239,000	1.04	(intermittent, local, heavy downpours- system overwhelmed) 10 hours

* - Plant was not equipped to monitor discharge volumes

** - Precipitation duration was not recorded

It should be noted that prior to any CSO discharge the TSU detention basin was filled to capacity (approximately 20 million gallons)