Save
The Rain
Clean
The Lake
Joanne M. Mahoney
County Executive

Project:	Clinton CSO Storage
Project Owner:	Onondaga County
Project Location:	Trolley Lot, Syracuse
Sewershed:	Clinton/Lower MIS
Technology:	Storage Facility
Capacity:	6 million gallons
CSO Capture:	114 million gal/yr
No. of CSOs Abated:	9
Completion Date:	12/ 31/13
Contract Amount:	$77,680,000
Bid Date:	7/14/11
Prime Contractor:	Jett Industries

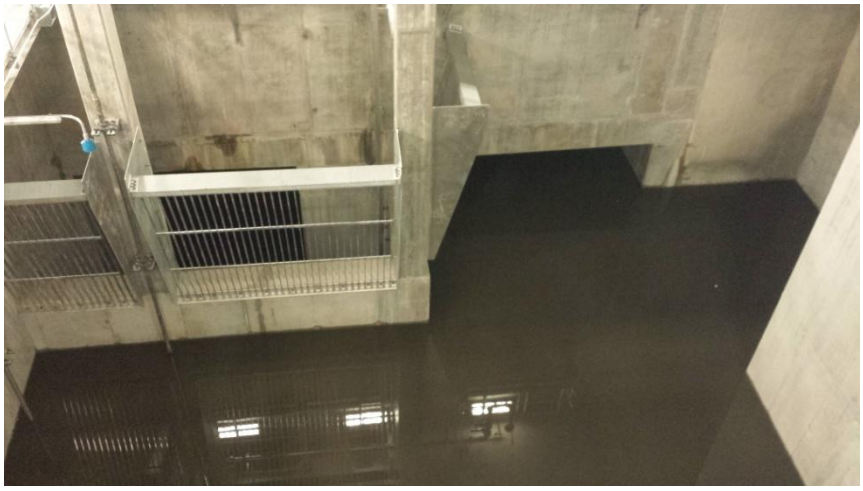
FACT SHEET
Clinton CSO Storage Facility

Project Description: The Clinton CSO Storage Facility Project is a 6 million gallon combined sewer overflow storage facility, constructed under the parking area between the elevated rail tracks and Onondaga Creek just south of the Armory Square area of downtown Syracuse (formerly known as the Trolley Lot). During wet weather events, the facility's three, parallel 18-foot diameter, underground storage tunnels capture flow from 9 combined sewer overflows (CSOs) in the vicinity of the Trolley Lot. The wastewater is stored in the tunnels until it can be conveyed via the Main Interceptor Sewer (MIS) to the Syracuse Metropolitan Sewage Treatment Plant (Metro) for treatment. The off-site conveyance piping, which will transmit the flow to the facility, was installed under the Clinton CSO Phase 1 and 2A conveyances projects completed in 2009. There is additional onsite conveyance piping installed under this project to connect the existing sewers to the new facility. In addition to the tunnels, there are two above ground structures located at either end (east and west) of the parking lot which provide access to the tunnels and house the pumping, grit collection and odor control facilities.

Green Components: To further enhance the sustainability of the facility, the project includes green infrastructure components. The stormwater runoff from the entire site that measures approximately 275,000 square feet or 6.3 acres will be managed by green infrastructure. The stormwater from the area surrounding the main structure on the western half of the site will be collected by a series of catch basins and stormwater piping that will outfall into two bioretention basins. The bioretention basins will allow the stormwater to infiltrate into the ground rather than immediately runoff to the creek. In addition, stormwater runoff from the eastern half of the project site, to be restored as a parking area, will be directed to a subsurface collection facility and used to flush the storage tunnels to clear them of grit and debris that may have settled or been left behind after the stored combined sewage was transmitted to Metro. In addition, a green roof will be installed on the west building.

Construction Update: The Clinton CSO Storage Facility was placed on line on December 27, 2013. The first large event occurred on March 29, 2014 with nearly 2" of rainfall in the City of Syracuse as well as significant snow melt. The snowpack was concentrated with water due to the very wet late season snow storms. The Clinton Storage Facility functioned essentially as designed with the effluent pumps activating when the tank reached a preset level. The contractor is working on miscellaneous final work items. Site restoration began on April 1, 2014 with closure of the temporary parking and the start of final grading. Completion is scheduled for June 2014, however, the contractor will remain onsite for the duration of the Performance Period as required in the Contract Documents.

Clinton CSO Storage Facility – Construction June 2013



Clinton CSO Storage Facility – Tunnel 1 filling, March 2014

View of Clinton CSO Storage Facility West Chamber from West Jefferson Street November 2013

Clinton CSO Storage Facility Construction – Tunnel wall rebar July 2013