



WASTEWATER DIVISION

Update on Sayreville Pump Station Improvements

The permanent restoration of the Sayreville Pump Station and related flood mitigation is now 22 percent complete, with the installation of structural steel currently underway. Sheet piles are also being driven for the perimeter flood walls – extending between 32 and 34 feet below grade.

Piles, pile caps, grade beams, and the concrete slab were previously completed, as were the underground conduits for the MDS Generator Building.

The Sayreville Pump Station sustained significant damage as a result of Hurricane Sandy in 2012, including flooding and the near-total destruction of the Pump Station's electrical equipment. The new design provides electrical redundancy and flood wall protection to sustain a 500-year storm.

Two temporary electrical feeders have been installed to provide power for normal operations during all phases of the restoration.

As the sheet piles are driven, a vibration consultant has been monitoring the structures in the area. Electronic monitors are located at several strategic locations adjacent to homes to measure and record real time data and to report to appropriate supervisory personnel if excessive vibration



Ongoing work at the Sayreville Pump Station.



Replacement of the 60-inch wedge gate valve. 02/02/2018



Perimeter flood wall.

is approached. To date, all vibration data is well below levels associated with potential negative impact.

The Sayreville Pump Station is believed to be one of the largest of its kind in New Jersey, pumping anywhere from 70 million to 320 million gallons of wastewater—depending on the weather—3.5 miles to the MCUA’s Central Wastewater Treatment Plant.

Wastewater Division April 2018 Statistics

- Average Influent flow – 117.49 mgd
- Average Effluent TSS – 38 mg/l
- Average Effluent BOD – 17 mg/l
- Biosolids production – 16,526 wet tons, a 3.8% increase over the five-year average. The entire amount was processed through the dryers.

**Rainfall for the month was 5.41 inches as measured at the treatment plant.*

Solid Waste Division April 2018 Tonnage Figures

	Monthly Tons	Cumulative Tons
2018	45,883	160,287
2017	46,343	159,051

An average of 264 trucks hauled an average of 1,835 tons of waste to the Landfill facility each day.