

Middlesex County Utilities Authority

Hurricane Sandy Update

November 12, 2012

UPDATE: The USEPA sent a team of underwater divers to assist with the installation of a flow gate to control wastewater flow entering the Original Sayreville Pump Station (OSPS) which is currently being renovated. The team completed its work at the OSPS and successfully installed the gate on November 9, 2012. This USEPA assistance will permit the acceleration of the work to activate one of the existing 40 mgd pumps in the OSPS. Further assistance was requested from the USEPA to accelerate clean up of debris and sediment deposited and discovered during the dewatering operation. This assistance will improve the work to allow for the acceleration of the cleanup and activation of one 40 mgd. As of today, the MCUA is waiting for a determination to allow a USEPA contractor to proceed with this work.

As of today all three temporary bypass pumping systems are functional, which is 93% of the average daily flow entering the pumping station. However, one of the bypass pumps in the temporary bypass pumping system one was not operating; it is being replaced and will be functioning by this evening.

With most of the bypass pumping systems in place, cleanup of the Sayreville Pump Station grounds has been initiated to allow for site activities to proceed in an orderly and efficient manner for the repairs to the Original Sayreville Pump Station (OSPS) and Sayreville Relief Pump Station (SRPS).

The Edison Pump Station bypass system continues to pump 20-22 million gallons per day (mgd), which can accommodate the average daily wastewater flow that enters the station and is conveyed to the central treatment plant. In addition, the pump station was cleared of major debris from the flooding to effectuate repairs to electrical and mechanical equipment. We anticipate that this station will be up and running in a matter of weeks. This station is currently manned 24 hours a day by MCUA personnel.

MCUA met with representatives of the United States Army Corps of Engineers (USACE) from the Philadelphia District. MCUA executives and its consulting engineer discussed options available to the Authority in managing storm water flows that exceed the pump stations average daily flows. The USACE has agreed to conduct an assessment, scope of work and cost estimate to construct Temporary Wet Weather Overflow Facilities. A kick-off meeting was held for the exchange of information between representatives of the USACE, USEPA, NJDEP, MCUA and

MCUA engineering consultants. The USACE toured the Sayreville Pump Station and potential sites for the installation of temporary wet weather overflow pumps. The USACE is preparing an Assessment Report and will be submitted to the MCUA upon completion.

The Middlesex County Landfill will extend its operating hours over the work week, and will remain open over the weekend. The schedule is set below. There has been an increase in Landfill activity with no significant waiting time for tipping loads. Normal operation sees about 200 trucks a day, but that has gone up to over 300 trucks per day during this fallout from Hurricane Sandy. Utility electric power was restored at the landfill on Wednesday.

MCUA was informed today of several water recreation activities occurring in the Washington Canal and Raritan River. The MCUA immediately upon this notification contacted Sayreville Office of Emergency Management/Sayreville Police Department to request their assistance in suspending these activities and curtailing access due to the impacts sustained by the waterways as an aftermath from Hurricane Sandy.

Central Wastewater Treatment Plant

The Central Treatment Plant is fully operational and is handling all wastewater and trucked waste entering the plant in Sayreville. Currently, the Central Treatment Plant is being powered by the Landfill Gas to Energy Facility.

South Amboy Pump Station

Fully operational; pumping waste to the central facility

Edison Pump Station

Inoperable, flooded with ocean water and silt

Bypass pumping system is installed and continues to operate

Pumps will handle 20-24 million gallons per day

This bypass system will handle the average amount of wastewater that enters the station

All three bypass pumps installed are currently operating

It will take approximately two weeks to repair the electrical and mechanical equipment in the station before it can be placed back into a usable condition with a least one pump. Evaluation for the replacement of the pump station HVAC system has been initiated.

The two on-site electrical generators have been inspected by the manufacture for reactivation. Auxiliary electrical components and controls are currently preventing the generators from being restarted at this time. Some of the generators components and controls were flooded during storm event.

Due to the flooding of the station, the service life of all equipment in the station has been compromised.

Sayreville Pump Station

Inoperable, flooded with ocean water and silt

First bypass pumps became operational on Sunday, Nov. 4, at 1:30 am and continue to operate conveying between 20-24 mgd of wastewater to the central treatment plant.

The second and third bypass pumping system became operational on November 11, 2012 and continues to operate.

In total, these bypass pumping systems will be able to handle approximately 70 million gallons per day. Planning for an additional bypass pumping system has been initiated with delivery of equipment and installation of the system upcoming week.

When all four bypass pumping systems are up and running, they will convey the current average daily flow that enters the station to the central treatment plant.

It will take several weeks to dry out and repair the electrical and mechanical equipment in both stations before they can be placed back into usable condition with at least one pump.

Six of the ten pump motors have been removed and all six have been shipped off site for reconditioning.

Due to the flooding of the station, the service life of all equipment in the station has been compromised.

Industrial Users

- Industrial users are being asked to minimize their process wastewater flow to their respective wastewater collection systems, which then flows to the MCUA. Also, MCUA has reduced its trucked in waste rate to accommodate companies which elect to have their wastewater processed at the central treatment plant.

FEMA, USACE, USEPA and NJDEP

Federal and State agencies have visited the site and are fully briefed on the bypass operations of the MCUA. Both agencies are constantly monitoring the situation and have been providing whatever resources the MCUA needs.

Service interruptions have been minimal for the residents that are customers of the MCUA and a majority of residents will see no impact with their wastewater service.

