

Middlesex County Utilities Authority

Hurricane Sandy Update

January 11, 2013

Meetings

None Scheduled

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

None reported

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 and local electric utility.

The average rate of wastewater flow entering the Central Treatment Plant:
84 million gallons a day

South Amboy Pump Station

Operational

Repairs to damaged equipment are being performed by MCUA, which are ongoing.

The estimated average rate of wastewater flow conveyed to the Central Treatment Plant:

1-2 million gallons a day

Edison Pump Station

Operational

Four Main Pumps capable of conveying 85 MGD to the Central Treatment Plant are in operation.

Installed Main Pump 5 pump rotating assembly and connected shaft to motor and is expected to be functional next week.

Testing of one of the two Emergency Generators was successful and is capable of running the station if necessary

Repairs to electrical, mechanical and control equipment in the pump station continue and on-site emergency generators are functional in the event of loss of electric utility power; however, generator automatic control issues remain to be resolved. Additional Emergency Generator tests to be performed next week.

Emergency work nearing completion; Contractors in the process of demobilization.

Bypass pumping system capable of handling 20 -24 mgd is in standby mode.

Currently, the Main Pumps are able to convey 85 million gallons per day of wastewater to the Central Treatment Plant, which exceeds the average daily amount of wastewater that enters the station.

The estimated average rate of wastewater flow conveyed to the Central Treatment Plant:

15 million gallons a day

Sayreville Pump Station

Original Sayreville Pump Station

Main Pump 3E was shut down today from approximately 3:00am to 7:00am and 10:00am to 2:00 pm to realign motor and upper shaft to correct excessive motor vibration. At approximately 3:00pm Main Pump 3E was placed back in operation.

Operating Main Pumps 2E and 3E [rated capacities of each pump 33MGD @ 102 feet Total Head], continuing the evaluation of pump hydraulic and mechanical performance; tests performed indicate Pumps 2E and 3E are capable of conveying approximately 80 MGD.

Continuing hydraulic evaluations of pump system conveyance capacity; draft report on the findings has been completed and is under review, further evaluations are ongoing.

Controls to permit manual back-flushing of Main Pumps 2E and 3E by MUA Operators remain operable; back-flushing of pumps was not performed today.

Received re-conditioned pump shafts for Main Pumps 1E and 4E.

Bar Screen No. 1 functional and operational if necessary.

Sayreville Relief Pump Station

Operating Bar Screen Nos. 1 and 2, and Interconnection channel between SRPS Wet Well and OSPS Wet Well

Installed new actuator on Bar Screen No. 2 Sluice Gate 15 and operational

Continued testing of Emergency Generator; air circuit breaker repair required

Installation of new electrical feeder cables from 5kv switchgear room to local panels on intermediate level.

Continued layout for Main Pump 2R Variable Frequency Drive (VFD)

Continued demolition and removal of damaged mechanical and electrical equipment.

Continued coordination of surge control panel planning and fabrication; performed restoration work on surge accumulator systems.

Temporary Bypass Pumping System

Operational

System operation has been on an intermittent basis due to Main Pumps 2E and 3E conveying all of the dry weather flow today to the Central Treatment Plant.

Performed Pump maintenance; exercised pump motors for maintenance.

The estimated average rate of wastewater flow conveyed by the Main Pumps and/or Temporary Bypass Pumping System to the Central Treatment Plant:
68 million gallons a day

Temporary Wet Weather Overflow Facilities

WW-1 Facility at SPS site completed with floatables control system

- Completed fusing of common discharge header to floatables control system for WW-A, WW-B and WW-C and functional
- Completed installation of replacement pump for WW-A pump and functional

WW-2 Facility at MCLF completed with floatables control system

WW-3 Facility at MCLF completed with floatables control system

WW-4 Facility at MCLF:

- Pump WW 4-1 completed with floatables control system

- Pump WW 4-2 completed with floatables control system
- Pump WW 4-3 completed with floatables control system

All six Wet Weather Overflow Pumps are now fully operational and freeze protection is in place

Industrial Users

Industrial users are being notified that Sayreville Pump Station and Edison Pump Station currently can convey average daily flows to the Central Treatment Plant and may resume discharging to their respective wastewater collection systems. Also, MCUA maintained the reduced trucked in waste rate until January 4, 2013. As of January 5, 2013 the Septage Rate is \$48.00/1000 gallons and the Industrial Rate is \$72.00/1000 gallons.

Uncontrolled Overflows

None as of December 27, 2012

Controlled Overflows

None as of December 29, 2012

Middlesex County Landfill Extending Hours

Middlesex County Landfill is fully operational and open to accept solid waste for disposal. The Landfill will continue to extend operating hours during the week. Below is the schedule for the Landfill in East Brunswick.

Monday- January 7 through Friday- January 11	7:00am-4:30 pm
Saturday-January 12	7:00am-2:00 pm
Sunday-January 13	Closed
Monday- January 14 through Friday- January 18	7:00am-4:30 pm

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