

Middlesex County Utilities Authority

Hurricane Sandy Update

January 16, 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

One local sanitary sewer backup investigated by MCUA and not confirmed.

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:
136 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.

Main Pump 5 pump is expected to be functional this week.

Repairs to electrical, mechanical and control equipment in the pump station continue; new main air compressors for control system placed into operation today; replacement of air actuated solenoid valves with electrically actuated solenoid valves is ongoing for the control of the pump discharge valves.

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 this 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:

34 million gallons a day

Sayreville Pump Station

Original Sayreville Pump Station

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 performed today.

Completed manufacturer's inspection of Bar Screen No. 1; ready for operation upon introduction of flow through the OSPS influent channel.

Completed full installation of rotating assemblies for Main Pump Nos. 1E and 4E.

Completed manufacturer's inspection of pump discharge piping rubber expansion joint; installation was acceptable.

Sayreville Relief Pump Station

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

Draining discharge header to change all taps, nipples and valves for various instruments and control devices temporarily suspended; reactivation of discharge header was necessary today to permit operation of all Temporary Bypass Pumps to handle additional sewage flow due to rain event.

Continued work on the accumulator systems required for the operation of the pump discharge control valves and the surge system valves; bumped system air compressor motors ; continued coordination of surge control panel planning and fabrication.

Continued demolition and removal of damaged mechanical and electrical equipment.

Initiated electrical work for the installation of cable trays and pump control panels; determined routing for power and control wiring for all six SRPS Main Pumps; received delivery of control panel for operation of pumps.

Installing micro switch for operation of Emergency Generator in switchgear; activities resulted in an unexpected electrical power service interruption which caused the OSPS Main Pumps to be temporarily shutdown.

Completed the full installation of rotating assemblies for Main Pump Nos. 6R and 3R.

Removed and reinstalled Crane No. 2 gearbox to replace bearings.

Temporary Bypass Pumping System

Operational

System operation has been on an intermittent basis due to Main Pumps 2E and 3E conveying a portion of the dry weather flow today to the Central Treatment Plant. All nine pumps were placed into operation today due a wet weather event.

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

100 million gallons a day

Temporary Wet Weather Overflow Facilities

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

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. Some of the Wet Weather Overflow Pumps were placed into service today due to a Wet Weather Event.

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

A wet weather event commenced on January 15, 2013 and continued into January 16, 2013 which elevated the rate of sewage flow entering the Sayreville Pump Station facilities beyond the available capacity of the two operational Main Pumps and required the operation of the Temporary Bypass Pumping systems to maintain conveyance capacity to the Central Treatment Plant. In addition, at 11:08 am today, the Sayreville Pump Station lost power and Main Pumps 2E and 3E shut down. To assure not to flood the Sayreville Pump Station and cause uncontrolled overflows in the trunk system feeding the Pump Station, the Temporary Wet Weather Overflow Facility was set into operation. Controlled overflows commenced on January 16, 2013 at 12:59pm at the Sayreville Pumping Station and 3:10pm at the Middlesex County Landfill and were continuing as of 8:00pm.

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 14 through Friday- January 18 7:00am-4:30 pm

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