

Middlesex County Utilities Authority

Hurricane Sandy Update

February 8, 2013

Meetings

A meeting was held today between MUA, HMM and FEMA to review the Project Worksheet prepared by MUA for reimbursement of Category A, Debris Cleanup, expenses.

FEMA, USACE, USEPA and NJDEP

Federal and State agencies have visited the site and are fully briefed on the restoration efforts being implemented by the MUA. Both agencies are constantly monitoring the situation.

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. Analysis of December 2012 operating data shows Plant performance was impacted by the unscreened sewage conveyed through the Temporary Bypass Pumping System at the Sayreville Pumping Station. Excessive solids reduced the efficiency of the Final Settling Tanks for several days.

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

South Amboy Pump Station

Operational; Storm procedures implemented for Nor'easter today.

Repairs to damaged equipment are being performed by MUA, 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; Storm procedures implemented for Nor'easter today.

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

Calibration of pressure transducers and pressure transmitters are complete; final startup testing, commissioning and training for Main Control Panel scheduled to be completed next week.

On-site emergency generators are functional in the event of loss of electric utility power; however, generator automatic control issues remain to be resolved. Portable Generator for operation of submersible bypass pumping system was serviced today.

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:

22 million gallons a day

Sayreville Pump Station

Storm procedures implemented for Nor'easter today.

Original Sayreville Pump Station

Operating Main Pump Nos. 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 Pump Nos. 2E and 3E by MCUA Operators remain operable; back flushing OSPS pumps was not performed today.

Bar Screen No. 1 ready for operation upon introduction of flow through the OSPS influent channel.

Sayreville Relief Pump Station

Operating Main Pump No. 3R [rated capacity of 50 MGD @ 89 feet Total Head]; recorded flow from Pump 3R has, at times, exceeded 60 MGD.

Controls to permit manual back flushing of Main Pumps No. 3R by MCUA Operators are operable; back flushing SRPS pump was not performed today.

Operating Bar Screen Nos. 1, 2 and 4 and Interconnection channel between SRPS Wet Well and OSPS Wet Well.

Installed rotating assembly for Main Pump No. 4R including seal water piping and drain; completed cutting of floor openings for Main Pump No. 5R VFD,

Completed Main Pump No. 4R control terminations at 5kv switchgear cubicle, installation of terminal blocks, e-stop and mounted instrumentation enclosures on Pump Motor and installation of vibration sensors and tachometer on Pump; continued installation of auxiliary power raceways from intermediate trough to VFD locations; completed pulling cable for analog controls to the lower level for Main Pump Nos. 5R and 6R.

Temporary Bypass Pumping System

Operational

System operation has been on an intermittent basis due to Main Pump Nos. 2E, 3E and 3R capable of conveying all of the dry weather flow and a portion of the maximum wet weather flow to the Central Treatment Plant. Temporary Bypass Pumps were not operated for conveyance of sewage flow as of 7:00pm today and will remain on stand-by.

Performed maintenance: recirculation system in operation to prevent freezing.

Temporary Bypass Pumping System at the Weber Ave. Meter Chamber was not operated as of 7:00pm today and will remain on standby. This System serves to isolate the MCUA Interceptor pipeline sewage flow from the local sanitary sewer collection system to mitigate potential impacts during wet weather events.

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

78 million gallons a day

Temporary Wet Weather Overflow Facilities

Storm procedures implemented for Nor'easter today.

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.

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 January 26, 2013

Controlled Overflows

None as of January 17, 2013

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 until further notice.

Monday through Friday	7:00am - 4:30 pm
Saturday	7:00am - 12:00 noon
Sunday	Closed

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