

# ***Middlesex County Utilities Authority***

## ***Hurricane Sandy Update***

***January 22, 2013***

### **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:  
98 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 schedule for completion has been revised and is now 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 are operational with installation of dryer functions ongoing.

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.

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:

18 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 not performed today.

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

Completed modifications to the control programming for the operation of cone valves for Main Pumps Nos. 2E and 3E; installed vibration and speed sensors and initiated wiring of same for Main Pump Nos. 2E and 3E.

### **Sayreville Relief Pump Station**

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

Continued work on the accumulator systems required for the operation of the pump discharge control valves and the surge system valves.

Continued electrical work for the installation of cable trays and conduits in the intermediate level of the dry well; completed grounding of all cable trays and raceways on the intermediate level

Pump Control Panels for Main Pumps 2R and 3R are in place; completed installation, but not termination, of pump control wiring from panels; completed installation of conduits for control wiring to pumps in lower level; completed wiring of control panel for Guard Valve 8R; received delivery of Dewatering Control Panel for sewage ejector in lower level; initiated inspection and documentation of factory wiring in the new VFD's.

Completed phasing modification for the activation of the emergency generator through a 5kv Bus B switchgear connection; continued wiring modification on the exciter circuit for Main Pump No. 3R.

Continuing to rebuild overhead crane gearboxes to replace bearings; working on Crane No. 3.

Continued draining discharge header to change all taps, nipples and valves for various instruments and control devices resumed today.

### **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. Three of nine Temporary Bypass Pumps continue to be in operation following the most recent 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:  
78 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.

**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 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.

Tuesday- January 22 through Friday- January 25	7:00am-4:30 pm
Saturday January 26	7:00 AM—12PM Noon

Contact Information: Tony Cicatiello, 908.568.3280