MCUA MONTHLY HIGHLIGHTS

FEBRUARY 2018

PROTECTING AND PRESERVING CENTRAL NEW JERSEY'S ENVIRONMENTAL RESOURCES

WASTEWATER DIVISION

Central Treatment Plant Rehab Projects Near Completion

The MCUA is nearing completion of the electrical unit substation replacements and rehabilitation upgrades to the Central Treatment Plant, a $16,298,000 project that will increase the efficiency of the facility while "hardening" it in preparation for severe weather events.

The project consists of the replacement of ten electrical unit substations, replacement of the process water motor control center, replacement of the channel air blower system, and expansion of the fiber optic network throughout the Central Treatment Plant. Approximately 80 percent of the work is complete, with only the replacement of two unit substations remaining, as well as the completion of final remote networking capabilities and final documentation reports. Each electrical unit substation replacement also consists of the evaluation of concrete pads with repairs on an as needed basis. The installation of new containment areas around each concrete pad and the installation of new metal canopies will also protect the

Substation before

Substation after


Substation before


Substation after

Effluent Consistently Under Permitted Limits

At the turn of each year, the MCUA Wastewater Division reviews the data on its effluent to monitor any changes and ensure compliance with relevant permits. The 2017 average for biological oxygen demand (BOD) was 12 milligrams per liter and the average for total suspended solids (TSS) was 17 milligrams per liter.

This makes 2017 the twenty-third consecutive year in which both the BOD and TSS averages were below the permitted level of 30 mg/l. It is also the thirty-third consecutive year in which the average annual BOD alone was below 30 mg/l.

BOD is essentially the amount of biologically degradable organic matter in the water.

equipment and maintenance workers from the outdoor elements during maintenance.

"There's a big focus on the work going on at the Edison and Sayreville Pumping Stations," said Richard Fitamant, the MCUA's Executive Director. "It's equally important, of course, that we keep the Central Treatment Plant upgraded. This work will ensure the entire system operates efficiently."

The work is scheduled for competition in late June 2018.

Wastewater Division

January 2018 Statistics

- Average Influent flow – 96.02 mgd
- Average Effluent TSS – 19 mg/l
- Average Effluent BOD – 20 mg/l
- Biosolids production – 11,743 wet tons, a 7.6% decrease over the five-year average. The entire amount was processed through the dryers.

**Rainfall for the month was 2.00 inches as measured at the treatment plant.*

Solid Waste Division

January 2018 Tonnage Figures

	Monthly Tons	Cumulative Tons
2018	38,555	38,555
2017	37,449	37,449

An average of 234 trucks hauled an average of 1,542 tons of waste to the Landfill facility each day.