



WASTEWATER DIVISION

Meet the Lines & Meters Department at the MCUA

The Lines & Meters Department is just one piece of the puzzle that makes up the MCUA Community. The Department consists of 14 employees that ensure an average of 40 billion gallons per year of sewerage gets conveyed to the Central Treatment Plant for treatment. Lines & Meters maintains 74-meter chambers throughout Middlesex, Somerset, and Union Counties. These chambers are used as monitoring locations to determine the quantity and quality (flow and loadings) of Biochemical Oxygen Demand (BOD), Total Suspended Solids (TSS) and Chlorine Demand (CLD) of wastewater entering the MCUA Trunk System for billing purposes to each Municipal and Direct Industrial MCUA Participant. In addition, the Department maintains over 60 miles of sewer lines, interconnections, syphons, and manholes that make-up the MCUA Trunk System to safely convey the wastewater to the Central Treatment Plant, as well as constant upkeep of the Trunk System easements for uninhabited access. The Lines & Meters Department performs more than 1,000 confined space entries per year to verify the accuracy of its flow monitoring equipment, conduct preventive maintenance, and troubleshooting, as needed.

The overall success by the Department involves total teamwork and compliance for these skillful tasks to take place daily. According to Paul Poggioli, Lines & Meters Superintendent, who has been in the Department for 22 years, "One of the rewarding parts of this job is that no two days have been the same. Technology is constantly changing and advancing, but one thing stays constant, we still have to make sure the flow gets back to the Central Treatment Plant with our safety in mind, and the safety of the public as well". As mentioned, the Lines & Meters Department is just one piece of the puzzle, but their diligence plays a vital role in the overall success at the MCUA to ensure the wastewater conveyed to the Central Treatment Plant can be treated and returned to the environment.

Wastewater Division

October 2020 Statistics

- Average Influent flow – 103.94 mgd
- Average Effluent TSS – 19 mg/l
- Average Effluent BOD – 13 mg/l
- Biosolids production – 11,105 wet tons of dewatered filter cake. The entire amount was processed through the dryers, resulting in 2,059 wet tons of biosolids.

**Rainfall for the month was 5.34 inches as measured at the Treatment Plant.*

Solid Waste Division

October 2020 Tonnage Figures

	Monthly Tons	Cumulative Tons
2020	43,180	439,956
2019	53,711	464,102

An average of 256 trucks hauled an average of 1,661 tons of waste to the Landfill facility each day.

SOLID WASTE DIVISION

November Landfill Construction Projects

November has been a very active time for construction projects at the Landfill. Below are two projects which will improve landfill gas collection and the road network at the Landfill.

1.) Drilling Rig:

This drilling rig is installing 45 new/replacement wells.

2. & 4.) Paving Project:

Fischer Contracting Inc. worked after hours and on Saturday to limit interference with Landfill operations while paving the Landfill perimeter. This was the second major paving project at the Landfill in the past two years and it improved road conditions significantly.

3.) GCCS Improvements:

Stone Hill Contracting is drilling 45 new landfill gas collection wells as part of the continuing improvements to the existing gas collection and control system (GCCS). This work, which also includes new piping, is being performed in Cell 8/Area 5 and should be completed at the end of this year. These improvements will increase the landfill gas collection and transmission to the power plant for electricity generation.



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