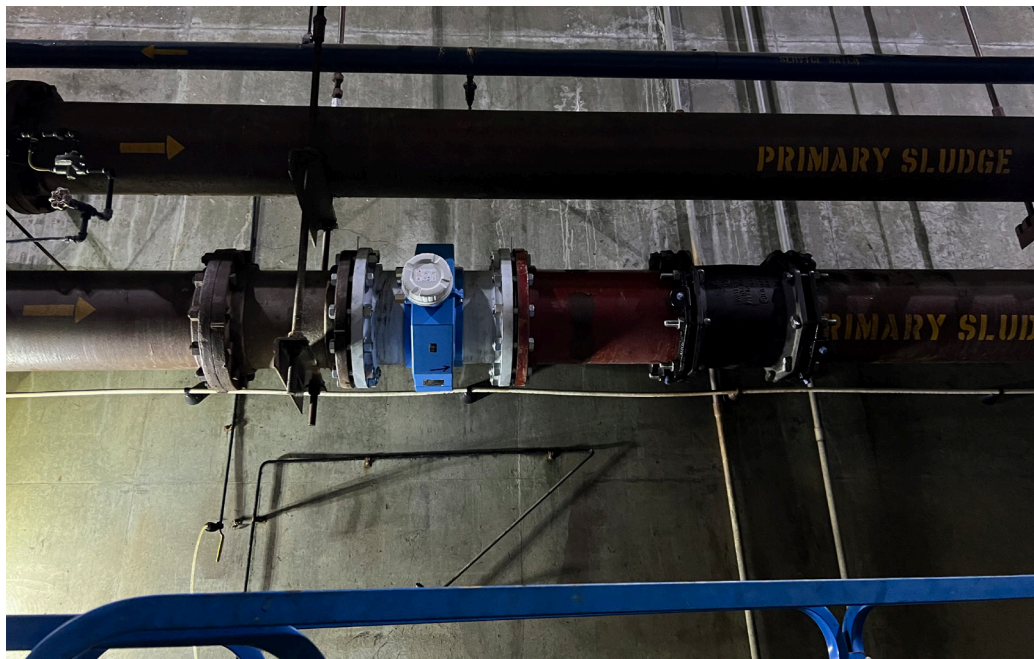




WASTEWATER DIVISION

Replacement of Venturi Meter



Wastewater Division June 2024 Statistics

- Average Influent flow - 84.29 mgd
- Average Effluent TSS - 15 mg/l
- Average Effluent BOD - 14 mg/l
- Biosolids production - During June, MCUA produced 12,808 wet tons of filter cake, all of which was processed through the dryers resulting in 4,022 wet tons of class A product and 938 class B product

*Rainfall for the month was 2.35 inches as measured at the Treatment Plant.

Recently, at CTP Area #2, the Maintenance team upgraded a key system by replacing an old sludge flow meter with a new electromagnetic one. This upgrade was aimed at making sure MCUA measures sludge flow more accurately, which helps run operations better.

Electromagnetic flow meters use a method called Electromagnetic Induction to measure how fast liquids move throughout the pipes. They work especially well with water-based fluids, giving very precise measurements. These meters are known for being strong and reliable, even in tough conditions. Since they don't have parts that move, they need very little maintenance but still give very accurate results.

To do this upgrade, strict safety steps, like LOTO (Lockout/Tagout), and shutting down parts of the CTP for about 8 hours, were utilized. During this time, the Maintenance team stopped the sludge flow, removed the old meter, and replaced it with the upgrade. Following the replacement, all parts were restarted carefully to make sure the new system worked properly and safely.

The project's success was possible due to the teamwork displayed by our Maintenance, Electricians, and Operations departments. Thank you all for your continued dedication to keeping MCUA operating effectively.

SOLID WASTE DIVISION

Cat 3 Demo at Landfill



Solid Waste Division June 2024

Year	Monthly Tons	Cumulative Tons
2024	43,703	254,440
2023	44,944	252,374

An average of 252 trucks hauled an average of 1,748 tons of waste to the Landfill facility each day.

The Landfill recently demoed a Caterpillar D3 which would help maintain their banks and roads for future projects.

This Cat® D3 model is equipped with a two-way dozer and rear guard, making it perfect for handling bulk materials. It features a comfortable operator station with excellent visibility and a spacious cab. The hydrostatic transmission control and joystick steering ensure easy maneuverability and precise speed control. With features like planetary final drives and sealed tracks, it offers durability and optimal performance. The blade design allows versatile operation, while ground-level service points simplify maintenance.

Overall, it combines productivity with cost efficiency, featuring low operating costs and improved fuel economy.

TRAINING SCHEDULE

AUGUST TRAINING: FIRE EXTINGUISHER TRAINING

AUGUST 6TH	7:00 AM, 8:00 AM, 9:00 AM	ANNEX PARKING LOT	MAINTENANCE; OPERATIONS; DUOPHASE; IT/OT; LAB/EQ; LINES & METERS; ADMIN
AUGUST 8TH	7:00 AM, 8:00 AM, 9:00 AM	ANNEX PARKING LOT	MAINTENANCE; OPERATIONS; DUOPHASE; IT/OT; LAB/EQ; LINES & METERS; ADMIN
AUGUST 13TH	7:00 AM, 8:00 AM, 9:00 AM	ANNEX PARKING LOT	MAINTENANCE; OPERATIONS; DUOPHASE; IT/OT; LAB/EQ; LINES & METERS; ADMIN
AUGUST 15TH	7:00 AM, 8:00 AM, 9:00 AM	ANNEX PARKING LOT	MAINTENANCE; OPERATIONS; DUOPHASE; IT/OT; LAB/EQ; LINES & METERS; ADMIN

Backflow Tester and Prevention Training

Congratulations to the following employees who successfully completed Kruger's Backflow Tester Training Course and Exam in June:

- Tesia DeCouto (Maintenance Dept)
- Edward Grabowski (Maintenance Dept)
- Brandon Koerner (Maintenance Dept)
- Jason Meszaros (Maintenance Dept)
- Anthony Romano (Maintenance Dept)
- Joseph Frizalone (Lines and Meters Dept)
- Cody Toth (Lines and Meters Dept)
- Ryan O'Steen (Lines and Meters Dept)
- Raymond Kuchta (Sayreville Pump Station)
- Steve Dyas (Duophase Dept)

This comprehensive 32-hour course provided thorough classroom instruction focused on the critical topic of Backflow Prevention. Ensuring clean water lines remain free from contaminants is paramount in safeguarding public health.

Backflow, where polluted water reverses its flow into clean water lines through cross-connections, poses serious risks. Factors such as sudden changes in water pressure can trigger Backflow, potentially introducing hazardous substances like human waste, pesticides, or chemicals into the water supply. This training holds particular significance in environments like Wastewater Treatment, where maintaining water purity is essential for community health and safety.