



May 14, 2024

Southern Clinton County Municipal Utilities Authority

Volume 17 Issue 5

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Maintenance—Keeping Things Humming

Routine pump maintenance has begun. This involves pulling the pump and checking for wear and tear on the volute, wear ring, impeller, face plate, bale, power cable, seal, and thermal cable. During these inspections, impeller clearance is closely monitored. This clearance is very important to the pump's performance and its ability to pass rags and other debris. Adjustments can be made during these routine maintenance inspections to ensure rags and other debris can pass, preventing backups.

Storm season is upon us, and, therefore generator maintenance is ongoing to ensure proper operations when needed. This routine maintenance is crucial to ensure continued operations when utility power is interrupted.

Upon review of LS 108's flows, were not where we expected, so the team checked and adjusted the impeller and wear plate. This helped a little however, the team was not fully satisfied with the results and upon further investigation it was discovered that there was a lot of debris in the force main

Administration

The 2025 budget process has been in full swing. The design and policy committee and the budget and finance committee met to review and provide comments on the proposed budget. Overall, the proposed budget has a minimal increase as we continue to move forward with the expansion project. The impact of new equipment coming online still leaves some variables moving into 2025.

Over the last month, SCCMUA has been fortunate enough to have been invited to participate in two community programs. The first was in Bath, working with Bath schools to provide education in hydrology and the environmental impact we all attribute to. The second opportunity was the DeWitt Community Showcase. SCCMUA distributed information about our operations and other helpful information for community members. We were also

able to show off our new combination sewer truck at the Touch a Truck portion of the showcase. These events provide an excellent opportunity to contact the public and have different team members meet folks, providing a different understanding of what we do. It's not just sewage.

discharges. So, they vacated and jetted the force main as far as possible. This project is still ongoing to reach this station's full potential.

All the components for the final two radio upgrades in DeWitt Township, LS 118 and LS 119, have been delivered. Now, we can schedule the programming of the two stations.



We received the tower materials for the Bath Township radio upgrade. Now, we can schedule the tower climbers and continue with this project.



Process—Making it Clean

NPDES Permit: All parameters of the NPDES permit were met. The total precipitation for the month was 3.256.

Plant team members have been busy with routine maintenance and tending to any unexpected pop-up issues items as they arise. Keeping up on scheduled oil changes, greasing, and belt changes are just a few routine maintenance items that can prevent needless issues. Additionally, we are keeping our treatment process moving smoothly without any glitches. The plant staff take pride in maintaining a fluent treatment process and take the necessary steps to avoid anything less.

We recently replaced a secondary sludge valve that allowed for some blow-by while in the

closed position. It was replaced with a rebuilt plug valve, and then a new plug was installed. The plug in a plug valve will wear over time due to high-velocity flow. This can ultimately damage the sealing surfaces and cause erosive damage to the plug and this erosion could allow for a substance to leak while in the closed position. Routine maintenance to inspect these valves and plugs, in addition to replacing parts as they wear is important in ensuring proper functionality of our equipment.

The UV bypass line has been installed! Flow was diverted to the inner contact ring, (which was the chemical feed line), allowing the outer ring to be emptied for coring purposes

while maintaining proper disinfection. We used the new Vactor truck and another pump to empty the outer ring. While the outer ring is empty, staff will spray down the walls and suck out any settled material in the bottom of the tank using the Vactor truck.

Our Lab team members have been busy training our new operators to run the lab, enter data, and complete daily plant checks around the facility. Cross-training is a well-known term here at SCCMUA! All operators are cross trained throughout all operator positions in maintenance, process, and inspections. This is extremely beneficial to both the authority and the operator, as the operator is skilled in all aspects of the job, as opposed to just one function.

Inspections—The Scoop on the Poop

Miss Dig Totals:

Miss Dig Requests: 389

Miss Digs Marked: 40

Inspection Services: 10

The staff has continued to review 2023 CCTV data from Plummer's Environmental. A total of 273 defects were observed. Many of the defects are minor and require only continued observation. Others will require a repair, usually in the form of a spot liner. Staff is working on a list of repairs for this year and a long-term repair schedule. A tentative cleaning and televising plan for 2024 and 2025 has been sent to Plummer's Environmental. The staff has begun work on a 2026 and 2027 cleaning and televising plan.

Preliminary drawings have been presented for Webster Road Townhomes in Bath Township. Staff met with the developer and their engineer to discuss the preliminary Agency Review.

Staff continues working on yearly drawdowns

at all the lift stations. Drawdowns gauge pump efficiency, and engineers use the information to improve the system's flow models.

Staff has begun inspecting manholes in the road project areas for 2024. SCCMUA works with the Road Commission to make repairs and external wrap manhole adjustment rings. As collection systems tighten over the years, adjustment rings have become the primary source of infiltration. By repairing damaged rings and externally sealing the rings, we can reduce infiltration.

Staff continues to work on the GIS and Lucity database improvements. This project will improve the accuracy of the GIS and Lucity systems. Staff will continue to make improvements as time allows. Improvements include updating attribute data, rectifying the GIS with air photos, and creating layers for tracking backups and past and future repairs.

