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Southern Clinton County Municipal Utilities Authority

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Southern Clinton County Municipal Utilities Authority
"The Clean Water People"

3671 W. Herbison Rd.
DeWitt, MI 48820
517-669-8311
www.sccmua.com
www.facebook.com/sccmua

Maintenance—Keeping Things Humming

Maintenance on the can stations, including LS 102 in DeWitt Township, continues. This involves checking belts, taking pressure and amp readings, pulling the back plate off each pump to check the wear on the internal rotating parts, and replacing anything that needs replacement. After reassembly, the team adjusts the clearance between the impeller and the back plate and performs another pressure and amp reading to provide updated information on the pump's performance. This allows us to keep them running at the most efficient rate.

At LS 105, the team noticed that the pumps were not performing as they should. They investigated and, after taking suction and discharge pressure readings, found something obstructing the discharge line. They devised a plan and successfully jetted the force main to remove the obstruction.

At LS 501, the crew ran the pumps at different hertz, taking amp readings and checking GPM for reference points. This information is very useful when trying to pinpoint potential problems. They removed the inspection co-

vers from each pump to take clearance readings between the wear plate and impeller. They documented the impeller and the wear plate for future reference. They also disassembled the manual valves, removed the old grease, and replaced it with fresh grease to ensure proper operation of these valves when needed. At LS 403, we experienced a pump failure a few months ago, and it was replaced with one from our used inventory until the new one arrived. The new pump has since arrived and has been put into service, and it seems to be operating well.



With the cold weather, we have had lots of "visitors"!

Administration

The Admin team is continuing to work on year-end items in preparation for the audit starting in March. With the SRF project fully underway in 2024, the audit requirements are more extensive and require more time to prepare than in a typical year.

The team also conducted interviews for an open operator position, with interest in the role significantly higher than in previous years. We look forward to welcoming a qualified candidate to the team.

The team is making progress toward completing the SRF project while considering the future needs of the system and facility.

Bioworks has begun preparations for the building that will house the CPH units. How-

ever, the project will not commence until the weather improves.

The team is continuing to monitor the constantly evolving requirements of the Earned Sick Time Act. At this time, it seems that minimal to no changes will be needed to our policy, but we will address them as soon as the final law is enacted if needed.



Process—Making it Clean

NPDES Permit: We are pleased to report that all parameters of the NPDES permit were successfully met, with total precipitation for the month of .416.

Staff have been keeping up with routine maintenance while addressing any unforeseen issues that may arise from time to time. The team cleaned out the RBC A1 tank using the Vactor truck, with several members inside the tank shoveling and squeegeeing the settled solids toward the suction hose for a spotless tank floor. The new Brentwood technology at the back of the tank was also thoroughly cleaned, including its underbody air disbursement system to ensure maximum efficiency.

The effluent water system supplying the facility was serviced, and a pump was repaired. Staff noticed that one of the three pumps was noisier than usual and disas-

sembled it for inspection. Upon examining the pump, they discovered that the bolt securing the impeller to the drive shaft had come loose, causing the impeller to detach from the shaft. Fortunately, the impeller showed no damage and was reinstalled and torqued back to specification.

The boiler in the old digester building was repaired. This required a new pressure tank and plumbing, as some parts were beginning to show signs of wear. This boiler serves as the main source of heat for the old digester building, operating primarily October through May, with no reliance on it during the warmer months of the year.

The boilers in the new digester have had new gas pressure switches installed and are awaiting the installation of new upper and lower thermostats. The ac-

curacy of these thermostats is crucial because they signal the boilers when to call for heat. Boiler components are routinely maintained and checked as they are essential for the proper heating of the anaerobic digesters.

The laboratory acquired a new autoclave for sterilizing testing materials. This will be used for conducting the fecal coliform test, which is performed five days a week. This test detects the presence of fecal bacteria in our tertiary effluent wastewater and helps determine the strength of disinfection needed for our tertiary effluent.



Inspections—The Scoop on the Poop

Miss Dig: A total of 415 tickets were checked by staff during the month of December.

17 tickets required marking

Inspections:

- 6 household inspections were completed in the month of December.
- 2 new connections
- 4 repairs

Projects:

Staff is continuing to enhance GIS and Lucity asset management for the migration to Ziptility. The work has included removing duplicates in the databases, filling in missing information, adding new assets to better facilitate workflows in Ziptility, and conducting field verification of the data.

Leavitt and Starck installed a new air relief on the 201 force main. Prein and Newhof, using the

record drawings for the 201 force main, identified several locations where air may become trapped, leading to continued degradation of the pump efficiency at 201. One air relief was installed at the high point of the largest air gap. Staff is still assessing the impact of the new air relief. Initial results indicate a slight improvement. Ongoing monitoring will be necessary to determine the best future approach for enhancing pumping at 201.

Progress on plans for Webster Road Townhouses is continuing to move forward. Miles from Bath Township organized a meeting with the developer, their engineer, Prein and Newhof, and SCCMUA.

