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## Southern Clinton County Municipal Utilities Authority

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### Maintenance—Keeping Things Humming

The crew worked through many items this month with many plugged pumps and generator issues. This is our bread and butter, just another day at SCCMUA.

A significant generator failure has occurred at station 501. It is a large, older generator that is a little more difficult to find parts for. This is not our first time working with this situation; the staff is waiting for confirmation from the vendor, but a voltage regulator is likely the culprit and a newly updated unit will be retrofitted. It may take a few weeks to locate the part and install it; in the meantime, a temporary unit has been wired in and is fully operational if needed.

A fence was installed at station 303 in the City of DeWitt to provide a border for pedestrians and to blend the station into the environment. This station is extremely close to the sidewalks on two sides and the fence will help eliminate potential issues related to ongoing work at the station and keep the public safe while those activities continue.

In Bath, two new pumps were installed at

stations 213 and 215. This was due to failing performance and age. The removed pumps will be inspected further to evaluate if they are viable for emergency back-ups. Also at station 213, a new panel is being built; the old panel has significant damage from corrosion. This was identified as a CIP item in Bath. SCCMUA handles the build/install in-house. Recently, this has been the practice to create a consistent panel for our operators to negotiate and troubleshoot when necessary.

In DeWitt Twp, a new motor was installed at station 109. The motor had failed, likely due to a combination of voltage spikes and wear. This has been an issue in some of our stations, particularly during the pandemic when the high industrial loads were less.

### Administration

Director Gurski and Process Supervisor Nichols attended the MWEA annual conference to help reinvigorate the operator challenge team for Michigan. This team will compete in regional and national competitions. There are a multitude of different disciplines related to this competition. This brings awareness and competitiveness to our industry which will help attract new talent. In addition to that task, Director Gurski presented the SCCMUA model work and the ability to save significant funds by utilizing these tools and working with the regulators.

SCCMUA has been revamping its in-house training program. The staff has enlisted help from a vendor to assist with some of

the training, which will allow our team to get CEC's and will provide a higher level of take-away to the staff. The first of these sessions has taken place with excellent feedback. This benefits SCCMUA by reducing the risk of injury or worse and, more importantly, keeping our team safe and positive in the work environment.



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## **Process—Making it Clean**

NPDES Permit: All permit requirements were met. Total precipitation for the month was 3.42".

June has continued with some wet weather moments but overall very manageable. The staff has been working closely with our consultants as the plant improvement project design is nearly finalized for review. The team has spent many days with the consultants on-site to verify items related to electrical distribution and mechanical operations. This is done to avoid as many surprises as possible when and if the project moves forward.

The supernatant chamber has valves at different levels to al-

low decanting of the separated water column. This has settled out of the solids once mixing has stopped. The valves have been in operation since 2005; however, they have begun leaking, making it difficult to monitor the discharge quality. Crews have spent a few days making confined space entries to change the valves to regain control.

The influent sample pump was replaced due to excessive wear. This pump runs 24/7 and is responsible for providing a flow to the sampler to be sampled throughout the day.

The pumps are small solids handling pumps and SCCMUA has a spare ready at all times. The removed pump will be salvaged to the extent it can be and part will be replaced if applicable.



Fence at LS 303

## **Inspections—The Scoop on the Poop**

### **Miss Dig Totals:**

Miss Dig Requests: 375

Miss Digs Marked: 42

Inspection Services: 10

Improvements to the GIS and Lucity database continues. All of Bath Township and Watertown Township has been completed. DeWitt Township, excluding the 102 service area, is also complete. Work has begun on the City of DeWitt GIS. Some of the City of DeWitt record drawings do not contain profile views with elevations. Staff will need to go out to verify manhole and pipe elevations.

Manhole inspections continue. The intent is to identify manholes with defective chimneys or castings so that repairs can be planned for and executed during the road projects.

DeWitt Township master plan work continues. Staff has been gathering requested information for the engineers.

Plummer's Environmental delivered all the videos from the 2021 cleaning and televising project. Staff will begin reviewing the videos once the GIS updates are complete.

Thomas Farms: Sanitary sewer work on phase 1B has been completed. Mandrel and air testing have been completed. During the initial test, a pipe reach failed the air test. A crack in the pipe was found during the CCTV inspection. The section of the pipe was replaced. Manhole vacuum test remains to be completed.

