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Southern Clinton County Municipal Utilities Authority

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

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Maintenance—Keeping Things Humming

Crews continued work on our portable generators, repairing brakes and bearings. This was needed; while they have been well maintained, wear items don't last forever. These generators serve a critical function in our emergency response plan and with relatively low hours and a good maintenance regimen, we hope to keep them viable for some time.

The staff has been busy dismantling pumps for inspection and replacing worn parts in the pump shop. For any items that we cannot service, such as the motor itself, we solicit local vendors to help. This approach offers significant cost savings and allows our staff to learn about each pump and what to look for in terms of wear and/or possible causes of damage that may be preventable.

The plant's utility (gator) vehicle had a significant failure which will require a motor rebuild. Staff will be completing the project in-house at a minimal cost. This vehicle is used around and on the grounds to perform general maintenance activities for hauling tools and equipment. This

saves the use of a truck and allows our staff to be more mobile.

Can station maintenance will be started this month as they are underground. The maintenance activities can be completed in the cold months in a temperature-controlled setting. Crews will replace the oil, check for wear, and make a parts list of needed items to be replaced based on these inspections.



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

Administration

Year end work is complete and the Auditors have been in to gather the needed data to complete the audit. Field work is completed in three days, (one day on site) however, the auditors will continue to work through the data and compile a presentable item to the Board between March and April.

Derrick Koenigsnecht has completed his 6 month training/probationary period and is doing a great job. His attitude is positive and he is willing to jump in and help on any project or task in front of him. SCCMUA looks forward to Derrick being a long term team member.

Continued work on a submittable SRF project plan has continued with good progress being made. Overall, the design is nearly 40% complete. By submitting for the 2023 funding, it appears SCCMUA will have its best chance to receive some level of principal forgiveness. However, this will be an unknown going into the submittal.



Process—Making it Clean

NPDES Permit: All permit requirements were met besides an under value on PH for one daily quantification Total precipitation for the month was .31".

The staff has been keeping busy with routine preventative maintenance work while having some unscheduled repairs to attend to in the meantime. They noticed that the east primary sludge pump had tripped out due to under amperage. Upon inspection, it was found that due to time and wear, the knuckle's shear pin that connects the pump driveshaft to the rotor had sheared, therefore disconnecting the two. The staff took immediate action tearing out and replacing the broken shear pin, which placed the pump back in operation rather quickly.

Staff also noticed what ap-

peared to be a small leak coming from the east sludge boiler. After taking panels off of the side of the boiler to try to detect where the leak was coming from, they found a hairline crack roughly 3" to 4" long in the water jacket. Since the boiler's water jacket is constructed of a specialty metal, it will be repaired by a welder certified to weld on boilers.

The RBC project is still moving along nicely. Staff is prepping to make their way into the tank for cleaning. Cleaning these tanks involves spraying the floors and sucking out all the snails that accumulate on the floor while the tank is in service. Tank cleaning is beneficial in this process due to the work that must be completed inside the tank.

The west sludge transfer pump has had the stator replaced, correcting the abnormal sounds coming from the pump. The staff were impressed by the design of this positive displacement Seepex pump, and it is incredibly user-friendly and easy to tear apart for any repair work that may be needed.

Overall, the plant is running very smoothly while maintaining a quality effluent.

Inspections—The Scoop on the Poop

Miss Dig:

Miss Dig growing pains continue. Miss Dig still has not produced an effective reporting system. We did receive a total of 300 Miss Dig tickets for the month of January. Staff have attended three zoom training sessions since the new system went on line.

Inspection Services: 10

Little has changed in the last month. Staff continue to work on improving the GIS and Lucity databases. Missing data is being added, while inaccurate data is being corrected. Accurate and complete data will help facilitate proper system modeling. Additional data is being added to the GIS which will further help in accurate modeling.

Once the weather improves, staff will begin inspecting manholes in areas of summer road projects. The intent is to identify manholes with defective chimneys or castings so re-

pairs can be planned for and executed during the road projects.

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.

DeWitt Township

Thomas Farms: Sanitary sewer for phase 1A has been installed and all testing has been completed and passed. Phase 1B is still in the development stage.