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Southern Clinton County Municipal Utilities Authority

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Inside this issue:

Process—Making it Clean 2

Inspections—The Scoop on the Poop 2



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

After last month's issue with the generator at LS 208 in Bath, all the parts for the generator repair were received and installed. The generator is back in operation, allowing us to unhook the portable generator we had there in its place.

During our routine generator check, there were a few issues that were discovered and have now been corrected. A new block heater was installed on LS 214 generator, and a new speed sensor was installed on LS 115 generator.

The new bearings, seal, and O-rings for pump #3 at LS 504 were installed, and the pump is now back in service. It is a good exercise for the crew to be able to do repairs like this, as it builds their confidence and gives them a better understanding of how the pump's internal components operate.

All the parts have been received to complete the repair for the leak in the discharge line of pump #2 at LS 201. The crew set up and bypassed the station so they could enter the wet well to make the repairs needed. This process included resealing the base, replacing the gasket, and replacing a piece of pipe. This job was an all-hands-on-deck and an

excellent training opportunity for our two new operators.

The crew was able to vactor out the number 4 filter so the contractors could get started on installing the new filter. Work will be completed on that filter and after its completion, the SCCMUA team will proceed with cleaning out the remaining filters in preparation for the installation of the new equipment.

The maintenance team assisted with annual snail removal in the B2 train of the RBCs as well as the replacement of a few air cups on one of them. Again, this is good training for our new operators who assisted in this effort, as it builds knowledge of our plant and its operation along with necessary maintenance



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

Administration

As the project continues and different parts come together, the workload also increases for the team. This comes as we adjust daily operations around the construction. Inevitably, there are things found during construction that the team must address immediately. For instance, the need to isolate certain parts of the plant, or repairing faulty valves or other components discovered during the process are common issues that occur and are being handled as they arise.

The admin team has been diligently working to finish the year-end before the audit. This was not a typical year for SCCMUA as the project impacts operations and the accounting side of the operations significantly. Since SCCMUA has not had a project this size since its inception, many questions have had to be

answered to ensure proper handling and reporting. This has been a great learning process, and having an extra hand in that department during this time has been very beneficial.

The team is now working on the 2025 budget. This budget will be more difficult than others as we work on accounting for the transition from old operations to new. Those impacts, along with the overlap will be carefully considered as we account for these costs in the 2025 budget.



Process—Making it Clean

NPDES Permit: All parameters of the NPDES permit were met. The total precipitation for the month was 3.50.

The RBC B2 train is back in operation after being taken down for a thorough cleaning and inspection. Staff members teamed up, using the vacor truck to vacuum out the solids that settled at the bottom of the tank while it was in operation. This cleaning generally takes a solid day but is well thought out and executed, creating a cleaner work environment for those down in the tank. Staff visually inspected the bracketry, piping, and diffusers during this process. Since all bearings and shafts have been inspected and repaired, staff will move to cleaning and inspecting during the months our permit allows.

Staff have permanently removed the #4 Tertiary filter from operation and cleaned all the anthracite media out of the tank in preparation for the Nexom cloth disc filters. Contractors have built a temporary

floor across the top of the filter to hold scaffolding as they begin to take down the block wall, as this is needed in order to access the filters in the building.

Biosolids dewatering occurs throughout the year by removing supernatant that is produced by the settling of sludge. Supernatant is a clear liquid that is constantly produced by the process of sludge settling. In order to maintain enough storage capacity throughout the year we constantly draw the supernatant off the tank through valves which are set at various heights on the tank. In order to dewater at any level and not just at the current valve heights, the team installed a pump and float that can be moved between the north and the south tank. This system can be lowered in to reach the supernatant level allowing for removal even if there is not supernatant at the existing valve depths. This will allow us to dewater the tanks as much as

possible and provides optimal storage capacity.

The effluent strainer housed in the basement of the old digester building has been recently repaired. A coupling broke, which in turn made it so the shaft could not spin when the strainer runs a cycle. The strainer is called to run a cycle when pressure occurs on the outlet pipe due to filtered material trapped inside the strainer, and does not allow the water to flow easily through.



Inspections—The Scoop on the Poop

Miss Dig:

Tickets received: 226

Tickets marked: 32

Inspections: 2

Projects:

Miss Dig marking percentage remains relatively low. Depth requirement has really helped reduce the number of markings we do. Based on the design request, we will have another busy summer marking large fiber installation projects.

Shadybrook phase III work has been completed. Record drawing hard copies remain our only outstanding item. KEBS has been contacted.

Saginaw Retail (Ace Hardware) work has been completed and passed all inspections. Record drawings remain our only outstanding item. KEBS has been contacted.

Work on the data collection for Prein and Newhoff has consumed much the staff's time these past few months. In addition to taking the raw SCADA

data and converting it into a usable record of pump start and run times, the team has also been going into the system to verify the information. We were able to deliver all requested data last month. Additionally the team worked with Prein and Newhoff to spot-check some of the data and results were consistent with SCC-MUA numbers.

The staff has begun reviewing the 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.

