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

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## Southern Clinton County Municipal Utilities Authority Maintenance—Keeping Things Humming

Our lift stations have been keeping us busy! LS 501 had an issue with the exhaust fan that circulates air from outside to the basement. The fan was hitting the shroud and was unable to effectively circulate the air. The team was able to remove the unit, bring it back to the shop, make the proper repairs and get it re-installed to keep fresh air moving through the building.

We had three transducers fail effecting LS103, 105 and 210. The transducers at LS 103 and 105 showed strange run cycles, and when inspected were found to be faulty, and have now been replaced. At LS210 the transducer showed no signs of fault but completely failed at a random time and we are continuing to monitor.

Lastly, at LS117, during the final check in the valve cleaning process, it was found that the sump pump float in the meter chamber had gotten hung up effecting its ability to operate properly. The chamber was pumped out and the issue has been resolved.

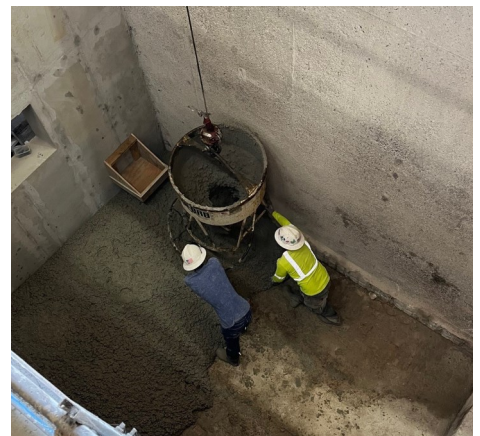
The team also played a key role in the start of

### Administration

This last month, the team spent some time evaluating our asset management/work management software. The existing system has been in place for a long time and is geared more toward managing large cities and full-service communities. We have found that this program really isn't the best fit for small utility users like SCCMUA. The current program requires a lot of duplicate efforts to input data and is not user friendly if needing to add images or other documents to a work request. Our vision is to have a more interactive/user friendly program that accesses all data via map location, and associates can update information while in the field. Improved software that fits our needs will reduce input hours, redundancy and will increase overall work management traceability and provide better reporting features. The new software allows supervisors to easily assign work, and equally beneficial, allows the operations team to keep field notes and pictures for each assignment that can be used for future reference. The group has settled on a product and

the bypass for the project. The team made entries into the Watertown, City, and at LS 117 manholes to plug the discharge line to put the bypass pumps into service.

Once the bypass began, the crew drained back the force main out of Sandhill so that it could be flushed out. After that, they completed the task by vactoring and spraying the walls and the bottom of the wet well so the contractors could begin the work needed to complete the bypass.



is working with the vendor to test our system and data. More to come on this as testing begins!

Our admin supervisor has been attending various training opportunities for MERS, governmental accounting and BS&A. This has proven valuable, as those lessons have identified some critical opportunities to update our processes. These updates and procedures are being documented into SOP's to ensure these processes are followed moving forward. This shows the importance of keeping up with training and general networking to ensure we are current with best practices.

The admin team has also been working with legal counsel to draft Articles of Incorporation amendments relative to the upgrade of the facilities. These documents are critical to the governance of the Authority to ensure effective and smooth operations with our increased capacity once the project is complete.

## Process—Making it Clean

**NPDES Permit:** All parameters of the NPDES permit were met. The total precipitation for the month was 2.96"

Staff have been keeping up on routine preventative maintenance as well as tending to any unexpected issues that arise. Recently we replaced a 3" gate valve on the line that allows effluent water to the grit room for process purpose. A circulation pump connected to the main plant boiler was also replaced due to failure. This pump helps move water throughout the boiler and supplies different areas of the building. Staff also replaced a bearing in a hot water heat pump that assists water distribution throughout the boiler system.

As part of the project, the Secondary sludge line has been temporarily rerouted to pump the secondary sludge to the back-wash drain line. It will flow to the mud wells and back to the head of the plant. It will then make its way back through the treatment process. This line was

rerouted to introduce the flow back through the head of the plant for screening and grit removal rather than entering the primary flow channel after any screening.

The sump pit in the new digester has also been re-routed to flow into a different drain line. The initial drain line was pumped into a channel just after the bar screen; this had to be changed as contractors were removing the existing pipe. This was re-routed to the mud well, which would then make its way back through the plant. This was done by connecting the 2" PVC sump drain line to a 6" ductile iron pipe in the basement of the digester. The line pumps all seal water and sewer water from the upstairs bathroom back through the treatment system.

The main plant bypass is now underway. Two pumps are set up at the City of DeWitt incoming line, Watertown Twp

line, and at the LS117 incoming line. These 3 locations are pumped above ground and into the #2 eq basin. The DeWitt Twp and Bath Twp flow is routed through valves to flow into the # 2 eq basin as well. Five pumps are set up to pump from the eq basin around the building and into the vortex grit chamber through a 16" pipe. Although only one pump is needed during normal flow operation, the additional pumps are there for higher flow situations. This flow is measured by a flow meter tied into our main plant SCADA system.



## Inspections—The Scoop on the Poop

### **Miss Dig Totals:**

Miss Dig Requests: 405

Miss Digs Marked: 51

Inspection Services: 9

### **Projects:**

July saw another slew of boring projects within the service area. All staking's were completed within the ticket's required time frame.

Staff worked diligently, gathering required information for the Chandler Road project.

There were no major plan reviews for the month of July. Projects are moving forward slowly. A preliminary review was done for the Darel Kessler's project off Gary Lane.

We are working with a company on data exports and work request uploads for testing a new asset management and work request software program.