



July 19, 2022

Southern Clinton County Municipal Utilities Authority

Volume 15 Issue 7

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Maintenance—Keeping Things Humming

As SCCMUA prepared for the July 4th holiday, crews completed as many preventive items as possible. The week of July 4th is popular with staff taking vacation to spend time with friends and family. This is also true for our users of the system. Crews spent a significant amount of time cleaning and servicing pumps in the system to avoid any issues or potential backups during this time. This work was timed well as flows began to fall. June was very dry, causing more debris to build up.

A new check valve was installed at station 304 in the City. That station has seen some growth in the last few years and is relatively small. Unfortunately, the check valve removed was not rebuildable and was beginning to have a

history of plugging, causing pump run times to extend.

Continued efforts on root removal were made on lines that have been previously treated. This was done to verify the treatment's effectiveness. The updated video indicates that the treated lines had some new growth and the product did not meet its expectations. These lines were manually cut back and the contractor has been contacted for warranty return work.

As the summer flies by, easement maintenance will be completed. This is an annual clearing event that keeps sewer access adequate for ongoing maintenance. This started in Padgett Park. The crews addressed erosion issues along the 117-discharge route. This is caused by heavy rain eroding the loose granular backfill surface. SCCMUA is replacing these areas with stone and binding material to promote grass-root growth and better erosion control.



Administration

Director Gurski worked with vendors on proposals for a new combination sewer truck. The current truck is 18 years old. The critical nature of this vehicle demands an operationally safe and effective truck to adequately serve the communities collection system needs and to respond to emergency backups effectively.

SCCMUA's request to reduce the frequency of PFAS sampling from monthly to quarterly was granted by EGLE. This was done with over a year's worth of data.

SCCMUA had a couple of successful certification takers this time, with Mark Arnes receiving his class D municipal license and Chad Nichols receiving his class B municipal license. Congratulations to them both.



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Process—Making it Clean

NPDES Permit: All permit requirements were met. Total precipitation for the month was 1.52".

The staff has been busy with routine maintenance and attending to any unexpected pop-ups throughout the month. The team replaced seven out of the eight decanting valves between the sludge storage tank and the supernatant tank. The old valves had been in place for many years and had started to leak. The replacements will allow complete control of the supernatant that we allow to flow into the tank.

DMRQA Study 42 is underway. The state requires this study yearly to check the Lab/Lab

Tech's accuracy. We run all daily NPDES parameters without knowing what the result is supposed to be. Results are then submitted and we wait to see if our results have fallen within the acceptable window. If, for some reason, a result is outside of the acceptable window, we investigate what could have caused a bad reading and rerun it. All results for the 2022 (DMRQA Study 42) have been submitted.

Staff pumped down and serviced the East secondary clarifier as it was due for service. The service includes greasing, new rope for pul-

leys, sludge scraper adjustments, and any other modifications the staff determines when down in the tank. Our main plant (Kaeser) air compressors have been serviced; routine annual oil changes and filter replacements keep these compressors running strong.

The staff recently replaced our West sludge circulation pump in the digester with a new Vaughn sludge pump. The pump that was pulled out will be gone through and rebuilt to use as a backup. These sludge circulation pumps keep the sludge circulated through the boiler to maintain the desired temperature for digestion of the sludge.

Inspections—The Scoop on the Poop

Miss Dig Totals:

Miss Dig Requests: 344

Miss Digs Marked: 31

Inspection Services: 8

Improvements to the GIS and Lucity databases continue. 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 City of DeWitt record drawings do not contain profile views with elevations. Staff will need to verify manhole and pipe elevations.

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

Bath Township master plan work continues.

Plummer's Environmental delivered all the videos from the 2021 cleaning and televising project. The staff has begun to review the data.

Thomas Farms: Work has been completed. Phase 1A passed all the testing. The engineer is working on record drawings. Phase 1B has been completed. All tests to date have passed. Manholes still need to be vacuumed and tested. The engineer is working on record drawings. Plans have been reviewed and approved for the next phase.

