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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

Annual pump maintenance has continued; this evaluation often brings additional work into the shop as worn or newly failed parts are often found in these annual inspections before they have a chance to become catastrophic to the pump operations. The typical repairs are upper and lower mechanical seals and worn impellers. Most of these repairs are done in-house, with only a few that need to go to a motor shop.

Our new air relief maintenance program is doing exactly what we hoped it would by finding faulty or leaking air reliefs. This also gives staff a chance to locate the structures that are often neglected and forgotten components in the system. The air relief allows the force main to operate correctly to flow at the rates they were designed to.

Easement clearing is near completion ensuring access to our most remote structures. Annual maintenance also allows for the structures to be evaluated, which are not regularly seen. This is time-consuming as crews clear fallen brush and trees along with trash that may have been im-

properly disposed of.

At station 207 in Bath, crews had to repair a failed discharge pipe inside the wet well. A temporary band was placed as staff now gathers and plans to replace the pipe entirely. This will likely require a bypass and a full day of work by our maintenance crew and will be completed before the winter months as long as supplies arrive in a timely manner.

Thermal imaging of the lift stations has continued, verifying any poor connections to be addressed before they cause a failure at the station. Terminals can become loose from the vibration in the station and/or the thermal changes in the warming and cooling cycle.

The updated odor control plan at station 208 in Bath appears to be effective. This includes the aeration of the wet well and a SCCMUA built odor scrubber. This has been an inexpensive project and has eliminated the need for costly chemical additions.

### Administration

SCCMUA newest operator has started the training process; Derrick Koenigsknecht appreciates the opportunity and has embraced the training of a new career.

SCCMUA staff met with Moore and Bruggink for a kick-off meeting for the design work on our future facilities project. The group is excited to start this work and has already begun looking at and evaluating equipment.

The SCCMUA website is being updated by Shumaker Technology Group with a few additional features and streamlining infor-

mation to be shared. Stay tuned for the launch date.



## **Process—Making it Clean**

NPDES Permit: All permit requirements were met. Total precipitation for the month was 2.55".

The plant has been operating smoothly with only minor operational changes needed. The west primary clarifier was taken out of operation to be serviced. Servicing of our clarifiers consists of changing out the steel cable (for the primaries) or synthetic rope (for the secondaries), inspecting all pulleys for ease of movement, greasing all moving parts of the sludge collector, and verifying scrapers are at the proper distance from the floor. This process is alternated between the two clarifiers roughly once every six months.

The staff has begun to re-seal the cracks in the sludge storage tank

cover. The original sealant has started to separate at the joints and shows an opening between joints of up to an inch in areas. Staff researched different options for sealing these open spaces and came up with a product called Eternabond, which is mainly used as a roof sealant, but applications included concrete. So far, the product appears to lie down nicely.

The overhead doors throughout the facility have undergone a facelift. The staff has used some of the nice weather, putting some new paint on all of our overhead doors throughout the building. It's amazing the difference some fresh paint makes on the overall look of the facility.

Staff is currently cleaning out

our Ferric day tank; once cleaned out successfully, we will attempt the larger storage tanks. This is not an easy task as ferric is a highly corrosive chemical. Through the years, sediment has settled out of the ferric, creating a thick sludge-like layer on the bottom of the tank, which is easily broken up when diluted with water.

The light rotating assembly for our secondary sludge pump has been rebuilt and placed on the shelf. Once every year or so, we notice the gallons per minute on the secondary flowmeter starts to decrease; when this happens, staff pulls and replaces the rotating assembly with the fresh rebuild (spare). Our staff takes pride in rebuilding certain pieces of equipment while knowing we have backups on the shelf.

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

### **Miss Dig Totals:**

Miss Dig Requests: 576

Miss Digs Marked: 116

Inspection Services: 11

### **DeWitt Township**

Thomas Farms: Located between Clark Rd & Solon Rd, will contain a mix of condominium and subdivision development to be completed over multiple phases. Tentative plans have been submitted and comments were returned. Plans were submitted for phase 1 and they are under review. Comments have been returned, waiting for updated drawings.

Quarry Village: Pipe installation was completed last fall. The entire system passed the air test at that time. To allow construction to begin on the front buildings, testing was completed and passed on the front four reaches. The remaining three reaches have been tested. One reach failed the mandrel test. The test was conducted using a mandrel for an 8" SDR 35 pipe, which has a larger interior diameter than SDR 26. The contractor retested the line with an 8" SDR 26 mandrel and the line passed. The CCTV vid-

eo was reviewed. The point where the first test "failed" is out of round (probably due to over compaction) but does not show any signs of leakage. Once the pavement is in place, the contractor will perform the man-hole vacuum test.

### **Bath Township**

Webster Rd Extension: Installation and testing has been completed and passed. KEBS is working on record drawings.

Meadowbrook West II: No change. Testing has been completed and passed. Record drawings have been submitted and are under review.

### **City Of DeWitt**

Wildflower: Installation is completed and testing passed.

### **Watertown Township**

Deer Creek III: Project has been fully completed.

