



February 16, 2021

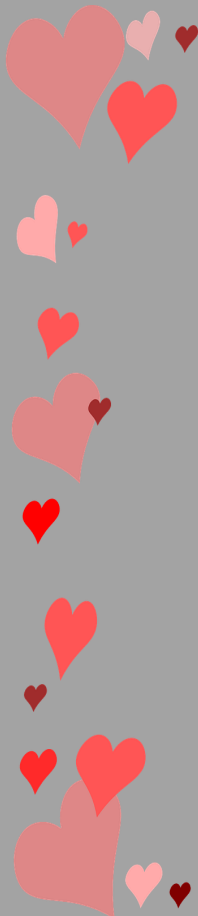
## Southern Clinton County Municipal Utilities Authority

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"The Clean Water People"

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### Maintenance—Keeping Things Humming

The mild winter has allowed staff to continue with items typically completed in warmer months. This month, staff was able to install new valves at station 207 (Park Lk Rd) in Bath Twp. In addition, parts have been ordered to install a new pump base and piping at station 204 (Park Lk Rd) in Bath Twp. This is due to the failure of the current pump base. This project will be completed in the near future.

Staff worked to install new turbos on the main plant generator. The bearings had started to fail, causing excess oil into the engine's intake. It is crucial to stay ahead of these items to prevent catastrophic failure to the turbo and the engine. The staff did a great job and completed the project in less than 8 hours.

At station 107 (Turner Rd) in DeWitt Twp, staff rebuilt a pump that had a seal failure that unfortunately, was premature. This pump was less than four years old; this is a small pump and it does not take much vibration or

movement to damage a mechanical seal. The parts still had a prorated warranty left, so costs were minimal.

In the City, a new radiator was installed in the generator at station 302 (Bridge St). Generators are essential to the system's reliability; however, the cost to maintain them is relatively high as they are exposed to the elements causing failure to specific items.

Staff was able to finish all the can station preventive maintenance for the year. This is completed not only for preventative maintenance work, but to inspect pump wear components and plan for future replacements.



### Administration

A large portion of the staff has received the first round of the Covid vaccine and will receive the second round before the end of the month. We are hopeful that we will be able to return to normal very soon.

The staff has been continually working with the team from Moore & Bruggink and EGLE regarding the additional capacity and model results. Hopefully, we will have an answer by the second quarter of this year.

The staff has been working through the audit process, which is a little different due to the impacts of COVID. This has increased staff time/involvement along with extending the audit time. The Audit will still be completed on schedule.



## Process—Making it Clean

NPDES Permit: All permit requirements were met. Total precipitation for the month was 1.07".

With the cold temperatures upon us, we have chosen to change the way we start the RBC project. SCCMUA usually begins inside the tank with cleaning, air header work, bracketry, and diffusers. Due to the impact the temps will have on our Vactor truck (used for cleaning out the tank), we have started machining and sleeving the RBC shaft ends and replacing bearings first. This process will give us enough time to let the temps come up a bit, minimizing any issues with colder temps on the Vactor.

While only having one Primary Clarifier online, it is crucial to make sure that there is no ice buildup

around the flights on the Clarifier that is offline during the winter months. Ice buildup around the flights prevent the flight mechanism from rotating inside the Clarifier. To prevent this and ultimately kill two birds with one stone, staff customized the heat pump return water piping, extending the piping and creating continuous flow into the offline Clarifier. This establishes enough water

movement to keep the Clarifier from freezing up and lets us keep our Clarifier's components underwater, therefore minimizing the chance of oxidation and eventually rusting.

The staff has been keeping up with preventative maintenance work around the plant consisting of oil changes, belt replacements, filter replacements, etc. They are currently in the process of reorganizing one of our process storage areas in our B area, giving us designated storage for pumps, valves, pipe fittings, rebuild kits, and other process-related parts. Keeping equipment storage well organized, we know what we have and what we may need to order so we are stocked and ready if an issue arises.



## Inspections—The Scoop on the Poop

### **Miss Dig Totals:**

Miss Dig Requests: 216

Miss Digs Marked: 41

Inspection Services: 5

### **Projects:**

#### **DeWitt Township**

Redwood Living: All utility work has been installed and tested; work continued on the site but has been slowed due to weather conditions.

Quarry Village: Pipe installation has been completed. Air and mandrel testing as well as televising have been completed and passed. Vacuum testing of the manhole has been completed.

#### **Bath Township**

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

Webster Rd Extension: Pipe has been installed. Testing has been completed and passed. KEBS is working on record drawings.

Whitehills Woods North: Testing is completed and passed, corrected record drawings were submitted and approved.

#### **City Of DeWitt**

Wildflower: Portions of record drawings have been received along with project submissions on a small portion of the development.

#### **Watertown Township**

Lakeside Phase 11: No change. Waiting for record drawings to be submitted.

Deer Creek III: Testing has been completed and passed. Waiting for record drawings.