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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



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"The Clean Water People"

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### Maintenance—Keeping Things Humming

As crews approach the end of the year, projects are being finished and punch list items are addressed to ensure closeout for year-end. This year was different in many ways, but our crews still managed to prioritize and push through. The one thing that has helped has been the weather which has been very pleasant with minimal precipitation.

Station 402 has been completed; this pump took over 24 weeks to get, which was a direct result from the impacts of COVID. The installation went smooth, which also included valve replacement. SCCMUA has completed much work over the last two years on this station, working with the Township to install two new pumps, a bypass, and an emergency standby generator.

SCCMUA also continued work on manhole repairs and sealing. These are identified through inflow and infiltration investigations. Most of the leaking is located in the chimneys of the manholes. This area is where adjustments are made to accommodate the finished road surface. The freeze and thaw cycle in Michigan causes the road joints in these adjustments to fail. For this reason, the most recent cast-

ing replacements have utilized a self-adjusting casting to compensate for this movement.

Unfortunately, our main crane truck has continued to have issues with the crane portion of the truck. This truck was purchased as a swap loader with a crane body and dump truck body. The problem seems to be related to the capacity of the crane. Many of our larger station's pumps are near the crane's capacity rating, which increases the wear. This year, we have replaced the winch and gearbox along with the entire rotating assembly. We will be evaluating the next steps based on the service life of the items replaced.

Additionally, this month seemed to yield an increased amount of backup investigations. The good news is none of these were a direct result of the municipal main lines and were isolated to the private laterals. When we get these requests, staff will also camera the line to help identify the issue to better assist the homeowners in finding an effective solution.

### Administration

SCCMUA has been informed that we will not be a recipient of this round of Cares Act money from EDA. However, other opportunities may exist through EDA via other programs, but this will be determined once their budget has been issued for the upcoming year.

With the contract settled, SCCMUA is looking forward to the New Year with pro-

jects being planned and new goals to improve both the plant and the collection system.



## Process—Making it Clean

NPDES Permit: All permit requirements were met. Total precipitation for the month was 1.85".

The staff has been busy with preventative maintenance work around the facility. The team recently took down our east secondary clarifier for servicing. Staff has been taking inventory of backup equipment/parts, what we have, and what we may need to add to the shelves. It is essential to make sure that SCCMUA has back-ups for critical pieces of equipment that are required daily.

The staff has started the first stages of installing the #5

blower, which will be run in parallel with the #4 blower. Not only will this help with less wear on the #4 blower, but it will give us a backup solution in case of equipment failure. These blowers are plumbed to handle process air to the secondary clarifiers as well as the aerated grit.

SCCMUA is looking at different alternatives for pumping supernatant. Currently, the supernatant lines are plumbed to pump into the flow channel heading into the primary clarifier. Since supernatant is very high in ammonia, if we could introduce the

supernatant into either the mudwells or the Sandhill wet well, it would give the supernatant more of a chance to be blended before entering the treatment process with some minor ammonia removals as well.

All RBC trains are up and running with healthy growth. While all trains are treating effectively, we still have one train to be serviced this spring. Once serviced, all RBC's will be running new bearings, shaft ends, diffusers, and air valves.

An IPP inspection was conducted on Waste Management Services. Staff is currently working on IPP year end counts with the municipalities.

## Inspections—The Scoop on the Poop

### **Miss Dig: (2020)**

Miss Dig Requests: 436

Miss Digs Marked: 74

Inspection Services: 15

### **Projects:**

#### **DeWitt Township**

Redwood Living: Work continues to progress. Contractor has connected into the manhole on Clark. It is an apartment complex that will connect to the DeWitt Twp system, but remain private.

Quarry Village: Pipe installation has been completed. Air and mandrel testing as well as televising have been completed and passed. Vacuum testing has not been completed.

#### **Bath Township**

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

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**

Oaks IV: No change; testing has been completed and passed, still waiting for record drawings. C2AE has sent a request to the engineer for record drawings.

Wildflower Condos III: No change; testing has been completed and passed, still waiting for record drawings. C2AE has sent a request to the engineer for record drawings.

Wildflower Subdivision III: No change; testing has been completed and passed, still

waiting for record drawings. C2AE has sent a request to the engineer for record drawings.

#### **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.

