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Southern Clinton County Municipal Utilities Authority

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Station 402 in Watertown Township has under gone many improvements this year. These improvements included a new Fairbanks pump to replace one of the original Allis Chalmers pumps from 1984. The other original pump will be upgraded in the coming years. Also, a standby emergency generator was installed along with a building to house the controls and generator. All of this will help bolster the Watertown system as additional flows come in. This work was all completed by SCCMUA staff which saves dollars and gives full control of the end product.

The fine bubble diffusers have continued to be installed in stations in the

southeast portion of Bath Township. We have seen promising results, but it is early. Odors have been decreased and fog build-up has been eliminated. This was a trial run to evaluate the success of fine bubble diffusion and its ability to reduce H2S issues while eliminating chemical costs. The region was chosen due to long-standing H2S issues and large amounts of chemical dosing. This is the farthest reach of the collection system with long detention times, which in turn consumes all the dissolved oxygen and compound the odor and H2S concerns downstream.

The cold weather has arrived. This tends to exploit any electronic weakness in

the system. The staff has done a great job performing preventive maintenance, but with as many stations as SCCMUA operates, there still tend to be some failures. We hope we can curb this, but staff will be ready if a failure happens.

At station 406 in Watertown Twp, the check valves had to be repaired. The station has very low runtimes so buildup and corrosion have a way of forming on equipment that has little use no matter how much exercising they get.

With snow already falling, the staff has also spent time preparing vehicles and snow equipment for the months ahead.

Administration

2019 flew by quickly. We are near the end of the year with a long line of accomplishment.

Over the last month, interviews were conducted with firms to provide a facility plan. This will create a pathway for SCCMUA to act upon as future growth increases flow at the plant. We look forward to the start of this process with completion in the first quarter of 2020.

At the beginning of the month, we had four staff members take the test for their next level of

wastewater licenses. SCCMUA is very supportive of staff progressing in their certifications as it benefits everyone.

Southern Clinton County
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LS 402 Generator Bldg

Process—Making it Clean

All parameters of the NPDES permit were met.

Total rainfall for October reached 8.32". This year is headed for a record breaker. At the end of October, we recorded 38.76" of precipitation; the total for 2018 was 39.46". This has kept flows up a bit.

We are still rehabbing the shafts in the A1 train of the RBC'S and awaiting the arrival of the new Brentwood Accufas System. The #1 pump from Sandhill is still out for repair. Taking advantage of some decent weather days in October, we were able to pump down and clean out the Chlorine Clearwell. This is something that we try to do on an annual basis. This is done to keep algae growth from eventually overcoming the tank. This water is an essential part of the tertiary filter system and is

used to backwash the filters to remove built-up solids. A tank full of debris is less than ideal and it can cause pump plugging.

With the weather starting to get cold, it made us start to think warmth. We had the Sulfur Dioxide (SO₂) building insulated using spray foam. The building is a concrete structure that didn't retain much heat from the little baseboard heater that we had; what a difference it made. This will lower energy costs by half or more for that building as it was uninsulated and has to remain above freezing.

More employees are working with the process of the plant to build their knowledge of the plant and learn why things happen the way they do. This helps

them become more familiar with run hours, gallons pumped, valve positions, etc. In turn, operators gain more confidence in decision making and have a better understanding of the overall process.

The roof project has continued. The weather has delayed some of the work, but progress has been made. Both smaller front buildings are complete and a large portion of the main building has the new membrane installed.



SO₂ building insulation

Inspections—The Scoop on the Poop

Miss Dig:

Miss Dig Requests: 486

Miss Digs Marked: 87

Inspection Services: 10

Projects:

DeWitt Township

Crowner Farms III: No change. Manhole vacuum test is the last test to be completed.

DeWitt Crossing South: Work is nearing completion. Tests have been completed and passed. We are waiting for record drawings.

102 Interceptor: wells have been drilled and the dewatering process has begun. This will continue until the bore and jack are completed under I-69.

Bath Township

Meadowbrook West II: Testing has been completed and passed. Waiting on record drawings and easements.

Meadowbrook West: Work should begin soon.

Whitehills Woods North: Contractor is getting ready to start. The existing stub has been televised.

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; tests have 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; tests have 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. A manhole vacuum test is the last test to be completed. Record drawings need to be submitted.