



November 20, 2018

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Cold weather is filtering in quickly. SCCMUA crews are prepared for the cold weather. As cold weather starts, it will exploit weaknesses in electrical and plumbing components. Staff does their absolute best to mitigate these risks by evaluating these components prior to the cold but there is always the 1% that can rear its ugly head and create issues or alarms. We have finished generator inspections and replaced many weak components in the generator systems. This is also the same for the low voltage components in the station control system as well.

Work at station 402 is on-going. A connection to the force main was installed allowing a connection point in case of catastrophic pump failure or if maintenance was needed. This allows the flow to be pumped directly into the force main. This project was completed by SCCMUA staff with help from Granger limiting their discharge to make the install.

Tree trimming at some of our stations has been completed. We do our best to leave native vegetative buffers but sometimes these trees have the potential to disrupt power and communications from the station or just become diseased and die and need to

be removed. This is done with the upmost conservation as station buffering is important to many locations.



Backwash pump—(pg 2)

Administration

The existing phone system will not be compliant with the new regulations. This will be bid with DeWitt Township for similar services to yield a more favorable project and offer a more competitive bid process. The phone system has been in the CIP for a couple years, as systems were evaluated and different option have been looked at. We anticipate maintaining the same level of service but will gain compliance for the new regulations.

Healthcare information is still trickling in but things look good. Quotes are holding steady or with minor increases. This is good news for a change in this market and we are happy to see it.

As we look ahead to next year, a roof replacement is planned and we hope to get the bid process going quickly in 2019 for best pricing before contractors fill up for the year. The current roof was installed in 1994 and is showing its age with shrinkage and cracking near the side

walls. Leaks have been noticed and repaired but the life span for the current roof has been met and it is nearing time for replacement. Bidding assistance is being sought from a few local engineering firms for spec development and bid advertisement. This will be coming to the board in early 2019.

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Process—Making it Clean

All parameters of the NPDES permit were met.

The back-wash pump was quite a task. This pump took over four months to arrive and the pump end alone weighed over 1,600 pounds. The original pump has been in service since the 1980 expansion and did not like being removed from its resting place for the past 38 years. This pump was large, rusted, and very difficult for our staff to get out. It is in the basement of our clear well. Since SCCMUA opted for the direct replacement option, things have been fitting back together nicely. Staff succeed safely and effectively in the installation. There are a few finishing touches to be completed, but staff did an outstanding job.

Part of the annual cleaning at the plant is the clear well. It is a storage vessel for effluent water to be

backwashed through the filters. The clear well builds a significant amount of algae over the year as well as solids. The cleaning process takes a solid day to pump out and then vacuum all of the solids and algae off the walls and bottom. During the cold months, algae formation is not an issue.

A few weeks ago, during a weather event, an operator noticed one of our primary sludge pumps was not operating properly. Upon investigation, the identified issue was a broken drive shaft. With the redundancy in the pumping abilities, this was not an emergency as the other pump was put on line. However, the repairs to these pumps are not cheap and parts to fix this pump will be extensive. The cause of the failure may be grout from the bottom of the

primary tank.

With the RBC's doing the heavy lifting of the effective treatment here at SCCMUA, we keep a close eye on our RBC's and their operating condition. It was discovered during a daily inspection that damage was occurring to the media along with excessive air defusing, which indicated a broken header. Once this was discovered, a quick plan was developed to make an emergency repair and get the RBC back on line as this RBC had yet to be rehabbed. The tank was pumped down and an emergency repair clamp was installed along with a stainless bracket to hold the diffuser in place until it is scheduled for complete rehab in 2019. The repair was effective and no treatment capacity was lost during the three-day operation.

Inspections—The Scoop on the Poop

There have been 532 Miss Dig requests with 103 that needed to be marked.

DeWitt Township Projects:

The Quarry - final run to be tested in November.

Crowner Farms III - Installation is underway. Installation is being hampered by weather conditions.

Bath Township Projects:

Chandler Lofts/NOCA - Developer has supplied design flow for the latest plans. Prein and Newhof have completed capacity modeling.

City of DeWitt Projects:

Oaks IV - All testing and manhole inspections are complete. Waiting for record drawings.

Wildflower Condos III - Contractor is working on punch list items. Still need to complete vacuum test on manholes and record drawings

Watertown Township Projects:

Lakeside - Developer continues to work on record drawings for pipe installed but never accepted. Contractor has completed installation of mainline and laterals in phase 11. Contractor has performed and passed air testing and mandrel testing. SCCMUA has reviewed the CCTV videos. Pipe looks good; there are a few stones that need to be removed.

Clean and Televising -

Plummer's Environmental has completed cleaning in Watertown Township and moved into DeWitt Township.

