

Operations Report 1-18

Water Plant

The new water plant is running smooth, we still continue to work through punch list items as well as some programming issues. All issues continue to be addressed by the contractor and the lists get shorter by the day. Work remaining on the original contract is completing the storm pond relocation, earth work is complete, structures are built and storm pipe is being laid. We have finally received the results for the sludge samples that we sent in months ago, this time multiple samples were gathered in hope to average them if any came back high. We have 8 results, 4 from each lab that are below the limits for Uranium and Radium allowing the sludge to be disposed in a landfill. The next steps are to get rid of the sludge, storm/ overflow water to the current pond will soon be diverted to the new structure and some sort of drying process can begin. Secondly TST has prepared a tech memo for sludge drying options moving forward, Sterling Ranch is anxious to view the options as the cost to install will be split evenly with them. We think that drying bed is the way to go, the capital investment is higher initially but the annual costs to operate are much, much lower than the other mechanical processes.

Expansion work is wrapping up and down to the final punch list, the DWSD waterline and controls to their tank is nearing completion. The pipeline is installed and is being tested out as we speak for Hi-Chlorine/ Low- Chlorine and Bacteriological tests, Garney is still waiting on some of the long lead time items such as the PLC cabinet and the tank mixer but once they arrive installation will be fast.

In the month of December RWSD treated 19.4 million gallons of water, 576 thousand went to Dominion and 410 thousand went to Ravenna. Now that Ravenna is included into the district this will be the last time I report on them separately.

Lift Stations

The lift stations are running smooth we are working on some plans to make communications more robust, more reliable and potentially cheaper. Operator/ IT support guy Steve Williams is very good at IT and has a good understanding how it work and has been assigned to this project. RWSD is currently running on T1 lines which are very slow -1.5mb, very expensive and very unreliable Steve has some ideas he's working on to find a better solution.

Capital projects for the year include the installation of the receiving waters flow meter at the Roxborough Lift Station. This flow meter will be used to compare flows sent from the LMA Lift Station and flows received from the LMA Lift Station. By recording both flows you would be aware of any system loss and could potentially stop a huge sewage discharge. Other capital projects include some paving of the parking areas outside the Roxborough Lift Station and the new shop. Paving will occur after the flow meter is installed.

In December 18.9 million gallons of sewage was pumped to LE/WWTP.

Field

The field remains busy again this month with locates and numerous inspections related to new construction. As of the New Year we will begin starting to install more meters, we have been in communication with National Meter and Badger meter on a few issues with the new technology, while it's only about 1-2% of the meters installed that are having issues we want to be insured this is the right application moving forward. We started 2018 with 921 installs and anticipate around 1400 with the NWDC project and the continued growth in Ravenna.

The Cougar Run sewer line project is nearly complete, the pipe line is installed and in service, bottom coat of asphalt is laid and we are working with the weather to sneak the top mat in. Once that is done there is some culvert work that needs to be done as part of the easement agreement with Dr. Himmel. BT provided a change order cost to do the work which rang in at \$7600 therefore RWSD and RFP staff will work together and self-perform the work. This should result in a fairly large cost savings for the district.

Plan flip and spec review meeting has taken place for the 2018 Roxborough Village Water Line Replacement project, this is the remained of the scoped work in the Westside neighborhood. Tentative dates are as followed; we will advertise 2/7, open bids 3/8, NTP 4/9 and complete 8/15. This will get the majority of the pipes replaced in that neighborhood except a few of the small cult-a-sacs and a short stretch on Westside St. Replacement was evaluated and determined due to the lack of historical breaks in these areas replacement would not happen at this time.

We have started preparation for our 90 required L&C samples this first half of the year, these ones require more scheduling/ coordination due to the cold weather and potential of freezing samples. We will task Ashely to take on that job and help streamline the process.

We have been working diligently with Ravenna to get their system in compliance with our as a result of the new inclusion. Work related to this includes installing meters on all of their non-residential commercial properties and installing backflow devices on all of them as well. This will bring them in accordance with RWSD's Backflow and Cross Connection plan which is monitored by CDPHE. We have also provided Ravenna with a list of system improvements that are needed in the distribution system as part of the inclusion agreement. RWSD would prefer to self-perform the work and just have Ravenna reimburse us accordingly.