



## **April 10, 2018 – Superintendent’s Report**

### **ADMIN UPDATE:**

All of our capital improvements projects are moving along nicely and we have not encountered any major problems other than the weather. With regard to the weather, the past week or so of snow melt and rain combined to cause several SSO’s in the sewer system. The sewer crew was kept very busy responding to and managing spill activity. As I have stated repeatedly in these reports and in the Lift, we must get more aggressive in tackling the significant Inflow and Infiltration problem that continues to cost us a significant amount of money in avoidable treatment costs, not to mention all the additional stress the excess water places on our sewer infrastructure, resulting in shortened useful life spans for pumps, motors and other system components.

There was also one spill that was related to a failure in the 30-inch force main in Lawrence Park that CEG is handling as that force main is theirs to handle. Our sewer crews worked closely with CEG in managing this spill and will continue to provide any assistance we can during the repair work that is required in order to fix the pipe. This will not be an easy fix and certainly not one that will be completed in a matter of days. CEG’s engineering staff is working on a solution and they will move as quickly as they can to resolve this problem. Bypass pumping has been set up to prevent spills until the system returns to normal flow levels and will also be required during the actual repair work. The system configuration in the park requires that the bypass pump discharge hose has to cross Harmon Way and we would like to encourage people to avoid this area. It may be that a complete road closing is required in the near future until the problem is fixed. We will coordinate with CEG if this becomes necessary.

Wells 8 and 15 were cleaned this year and both wells required repair work in addition to the cleaning. Well 15 is particularly troublesome due to the shaft’s being out of plumb and is getting near the point where we may need to consider abandonment and drilling a new well to replace it. Costs may be able to be mitigated by utilizing some of the existing well’s components on the new well, but this is probably a couple 2-3 years out, unless the problems related to the well’s being out of plumb worsen. Well 15 costs are \$44,943 and for Well 8 we have spent about \$10,370 so far. These wells should be back in service next week.

The Utility is seeking approval for an agreement with Umbaugh & Associates to conduct a Cost of Service study, which is a requirement of amended ordinance No. 7, 2017 establishing new rates and charges for the water utility. This cost of service study must be completed before Phase II rates can be implemented, which are scheduled for January 2019 billings. The estimate provided by Umbaugh to complete this study is \$50,000. Given their work on the 2017 rate study and familiarity with the water utility, this contract is the most economical for the utility. The utility will be billed on an ongoing, monthly basis and the Controller’s Office and I will be working with Umbaugh and providing oversight so as to minimize costs. I will apprise the USB well in advance if the cost for this service is expected to exceed the estimate provided.

### **Operational Data: March Totals**

#### **SANITARY SEWER SYSTEM**

- 31 - Sanitary sewer lift station work orders performed.
- 13 – Sanitary sewer grinder pump station work orders performed.
- 2 – Sanitary sewer manhole inspections performed.
- 5 – Sanitary sewer main backup investigations.
  - 4 – Were found to be issues in customer laterals.
  - 1 – Was found to be a shared lateral on Elmhurst Drive. (48<sup>th</sup> & Elmhurst)
- 7,256 LF of sanitary sewer main cleaned.
- 1,057 LF of sanitary sewer main CCTV’d.
- Assisted DPW with salting and plowing for two snow events.

## **LOCATES/LEAK LOCATING/VALVE TURNING/HYDRANT MAINTENANCE/INSPECTIONS**

- 4 – Fire hydrant repairs performed.
- 53 – Fire hydrants pump outs performed (non- draining or MOV leaks to be repaired.)
- 756 – Fire hydrants pressure tested and inspections performed.
- 3 – Water main valves exercised.
- 1 – Water main valve box repair performed.
- 764 – Line locates performed.
- 2 – Water main shut outs performed.
- 1 – Water line leak investigation performed.
- 7 – Plan reviews performed.
- 2 – Inspections projects.
- Assisted DPW with plowing for one snow event.

## **WATER DISTRIBUTION**

- 127,858 gallons - Approximate water loss resulting from water main breaks.
- 5,298,035 gallons – Approximate water loss resulting from water service line breaks.
- 1 – Water main break repaired.
- 2 – Water service meter pits installed.
- 7 – Water service lines repaired/replaced.
- 15 – Water main locations were “potholed” to confirm depths for Richardt Storm Water Improvements Project.
- 1 – Yard restoration was completed.
- Vehicle/Equipment maintenance performed on 8 assets.
- Assisted DPW with plowing for one snow event.

## **WATER PLANT/WELL ACTIVITY**

### **FHWTP**

- Well #8 - Layne Christensen Co. performed pre-clean CCTV and pulled pump & motor for inspection.
- Well #8 – Replaced Mission antenna cable.
- Replaced bolts & nuts in pipe gallery showing signs of deterioration.
- Replaced tubing for bleach line.
- Cleaned chemical injector quills.
- Fabricated and installed shelf for DI equipment.
- Replaced an outside electrical receptacle.
- Installed shelf under counter for lab equipment backup battery.
- Installed a drain hose for the DI equipment.

### **ILWTP**

- HS #2 - Peerless Midwest replaced leaking check valve.
- Replaced cam-lock fitting on bleach piping.
- Cleaned chemical injector quills.
- Trouble shot intermittent connection issue to the Ethernet PLC for Well flow to Mission.
- Replaced pump head on pre-bleach pump.
- Contractor replaced two HVAC units.
- Well #15 – Peerless Midwest performed pre-clean CCTV and pulled pump & motor for inspection.

### **RWTP**

- M. E. Simpson Calibrated effluent production meter.
- Well House #3 – Installed an outside electrical receptacle.
- Replaced batteries on electric pallet jack.

### **Winding Ridge Booster Station**

- Installed new Mission unit.

### **Department Work**

- Vehicle/Equipment maintenance performed on 1 asset.
- Assisted DPW with plowing for one snow event.

## **BUSINESS OFFICE/SERVICE DEPARTMENT**

March totals to be added on report for April 24, 2018 USB meeting.

## **BILLING ADJUSTMENTS:**

4618 McGuire Ct - is requesting an adjustment in the sewer portion of the bill in the amount of \$2,089.37 due to busted pipes for which the leak water did not enter the sanitary sewer. We recommend approval.