



City of Pataskala Utility Department Nathan W. Coey, Utility Director

➤ Director Update

- Resolution 2017-048. This is a Resolution authorizing the purchase and installation of a new well pump/motor assembly in an amount not to exceed \$14,000. The current Well#1 at WTP2 has failed and requires replacement. This purchase was previously quoted in the \$9,500 range based on documentation at the plant. Removal of the existing pump indicated a larger pump and motor was installed contradictory to the pump and motor documents. Obviously, this pump size was increased at the time of start up with no supporting paper work on site. The pump removed will be the pump and motor scheduled for replacement.
- I attended the OWEA Annual Conference. I obtained continuing education hours for my OEPA certifications, served as a judge for the safety event in the Operations Challenge, and served as a moderator for the technical sessions. Chris Sharrock was in attendance to receive his 'Awesome Operator' award from the state level.
- I am working with the staff on our 'Backflow Prevention Taskforce' in efforts to ensure we are on track for the OEPA requirements.
- 2018 Utility Capital Projects. 2018 budgeting cycle is underway with review of Utility Capital Improvement Projects. Under the Utility Sewer Water Infrastructure Management Schedule (SWIMS), the following projects will be recommended in the 2018 budget.
 - WRF Phosphorus Upgrade Project. I anticipate phosphorus limits in our NPDES permit in the near future. Biological nutrient removal includes increased sludge yields and consequently more equipment to process and store biosolids. In 2018 I will recommend the purchase of additional dewatering equipment with improved capture rates to reduce the soluble phosphorus load on the treatment process. Reducing the unnecessary load on the biological reactor may eliminate the need for additional phosphorus removal equipment. The current press is undersized and poor capture rate of 75%, current units on the market are in the 95% to 99% capture rate. I anticipate a budgetary request of \$400,000 to accomplish our 2018 goals. Capacity funds could be utilized for phase one of this project.

- Creek Road Water Main Project. In efforts to improve hydraulic exchange in the distribution system, 3,000 feet of a new 12 inch water main on Creek Road from Township to the transmission main near River Forest is recommended. Currently the 12 inch transmission main from WTP2 transitions to a 6 inch transite (asbestos-cement) pipe on Creek Road and causes a hydraulic 'bottleneck' in the system. Pending additional consultant review, I anticipate a budgetary figure for this project to be \$480,000 in the form of debt service.
- Denison, Poplar, and Willow Water Main Project. The water mains in this area are horribly undersized ranging from 2 inch to 4 inch. Project includes 1,800 feet of 8 inch main for proper hydraulic flow and system loop improvements to support fire flow. Pending consultant review I anticipate a budgetary figure for this project in the \$300,000 range in the form of debt service.

➤ **Water Department**

- Transfer Pump1 at WTP1 is back in service after repair.
- The use of barley straw at the WTP2 brine waste tank is working very well at preventing algae growth. The algae in this open air tank was not only slightly in the past but a source of in house and contractual labor to keep the discharge lines flowing free.

➤ **Water Reclamation Department**

- Another bearing failure occurred in the WRF rotary fan press. This poor manufacturing detail includes concentric bearings with poly housings (plastic) that have a short operational life. We rush ordered the special parts for quick installation to not affect operation of the facility. This is now the second type of failure in a year. As a 2018 budget initiative I am looking at a press upgrade. This unit is undersized for our production needs and is becoming unreliable.
 - This resulted in continual pressing of solids for 3 days to prevent treatment issues.
- A wireless WI-FI camera was purchased for the press building. This allows the operator to visually inspect the press when we operate after hours. Due to a recent polymer feed line failure after hours (huge mess) this was purchased in efforts to catch issues. This unit is not connected to the SCADA alarm system but the camera will allow assist in preventing issues during afterhours operation.
- Electric conduit has been installed to the Biosolids Storage Building.
- The ventilation system in the WRF Screening Building is being serviced due to failure. This system constantly runs to prevent issues associated with hydrogen sulfide in the influent sewage.

➤ **Billing Department Update**

- The Billing Department continues to provide timely and outstanding customer service in their daily duties.

Highest Regards, Nathan W. Coey, Utility Director

City of Pataskala Utility Department
Sewer Water Infrastructure Management Schedule (SWIMS)

| Project Name | Project ID | Location | | Feet | Details | Priority | Target | Project Estimate |
|--------------------------------------|------------|------------|--------------------|--------|--|----------|--------|------------------|
| | | From | To | | | | | |
| Wood Street Sewer Project | SWC-17-001 | Rail Road | Mill | 1,600 | Re-line 8 inch clay for I & I remediation | 2 | 2019 | \$256,000 |
| Broadway Street Sewer Project | SWC-17-002 | Wood | End | 1,100 | Re-line 8 inch clay for I & I remediation | 2 | 2021 | \$176,000 |
| Linda, Liden, Tyler Sewer Project | SWC-17-003 | Broad | Library | 4,000 | Re-line 8 inch clay for I & I remediation | 2 | 2022 | \$640,000 |
| Oak Meadow Sewer Project | SWC-17-004 | Broad | Bent Tree | 2,100 | Re-line 8 inch clay for I & I remediation | 2 | 2022 | \$336,000 |
| Melody, Veasy, Robin Sewer Project | SWC-17-005 | Oak Meadow | Pat Haven | 2,920 | Re-line 8 inch clay for I & I remediation | 2 | 2023 | \$467,200 |
| Jefferson Street Sewer Project | SWC-17-006 | Front | Mill | 1,900 | Replace 16" VCP with 24" PVC | 2 | 2020 | \$304,000 |
| Willow/Poplar Sewer Project | SWC-17-007 | Main | Township | 1,400 | Re-line 8 inch and 24 inch sewer for I & I remediation | 2 | 2023 | \$224,000 |
| Creek Road Sewer Project | SWC-17-008 | Mill | Creek Lift Station | 1,500 | Re-line 24" concrete pipe and aerial crossing | 2 | 2024 | \$240,000 |
| Township/International Sewer Project | SWC-17-009 | Broad | Main | 2,200 | Re-line 8" and 15" VCP in the area | 2 | 2019 | \$352,000 |
| Creek Road Lift Station Project | SWC-17-010 | Creek Road | Station | | Update/replaced dated equipment | 1 | 2019 | \$850,000 |
| WRF Phosphorus Upgrade Project | SWC-17-011 | WRF | | | Phosphorus removal, digestion, dewatering | 1 | 2018 | \$2,000,000 |
| SE Tower to Booster | WTC-17-001 | SE Tower | Booster | 7,000 | New 12" from tower to booster-ROW | 3 | 2024 | \$1,675,000 |
| Mill Street Water Project | WTC-17-002 | Jefferson | End | 2,100 | New 8" to support proper hydraulic flow | 2 | 2020 | \$336,000 |
| Creek Road Water Project | WTC-17-003 | Township | River Forest | 3,000 | New 12" to support proper hydraulic flow | 1 | 2018 | \$480,000 |
| Granville Water Project | WTC-17-004 | High | End | 2,600 | Replace 4" with 8" Granville, Mulberry, and loop to Mill | 2 | 2020 | \$416,000 |
| Dennison-Poplar-Willow Water Project | WTC-17-005 | Front | Willow | 1,800 | Replace 4" and 2" with 8" to support hydraulic flow | 1 | 2018 | \$288,000 |
| 3rd Ave Water Project | WTC-17-006 | Main | Vine | 900 | Replace with new 8" main | 3 | 2022 | \$144,000 |
| 2nd Ave Water Project | WTC-17-007 | Main | Vine | 900 | Replace with new 8" main | 3 | 2023 | \$144,000 |
| 1st Ave Water Project | WTC-17-008 | Main | Vine | 900 | Replace with new 8" main | 3 | 2024 | \$144,000 |
| Town Street Water Project | WTC-17-009 | Main | Vine | 900 | Replace with new 8" main | 3 | 2025 | \$144,000 |
| High Street Water Project | WTC-17-010 | Granville | 2nd Ave | 1,600 | Replace 6" with new 8", new RR cross for hydraulic flow | 3 | 2026 | \$256,000 |
| Main Street Phase 2 Water Project | WTC-17-011 | Broad | Front | 2,500 | Replace existing with new 12" for hydraulic flow | 2 | 2019 | \$400,000 |
| Jefferson Street Water Project | WTC-17-012 | Rail Road | Mill | 1,700 | Replace with new 8" main for hydraulic flow | 2 | 2020 | \$272,000 |
| Broadway & Licking Water Project | WTC-17-013 | Main | End | 2,400 | Replace with new 8" main for hydraulic flow | 3 | 2021 | \$384,000 |
| Wood Street Water Project | WTC-17-014 | Mill | End | 1,700 | Replace with new 8" main for hydraulic flow | 3 | 2022 | \$272,000 |
| BWT Tower 1 Paint Project | WTC-17-015 | | | | New coating in and out | 3 | 2020 | \$275,000 |
| BWT Tower 2 Paint Project | WTC-17-016 | | | | New coating in and out | 3 | 2020 | \$275,000 |
| WTP1 Upgrade Project | WTC-17-017 | | | | Update/replaced dated equipment | 2 | 2019 | \$2,700,000 |
| | | | | | | | | |
| | | Sewer Feet | | 18,720 | | | Sewer | \$5,845,200 |
| | | Water Feet | | 30,000 | | | Water | \$8,605,000 |
| | | Total | | 48,720 | | | Total | \$14,450,200 |

City of Pataskala Utility Department
Sewer Water Infrastructure Management Schedule (**SWIMS**)

| Target Year | Total Funds Needed | Water | Sewer |
|-------------|--------------------|-------------|-------------|
| 2018 | \$2,768,000 | \$768,000 | \$2,000,000 |
| 2019 | \$4,558,000 | \$3,100,000 | \$1,458,000 |
| 2020 | \$1,878,000 | \$1,574,000 | \$304,000 |
| 2021 | \$560,000 | \$384,000 | \$176,000 |
| 2022 | \$1,392,000 | \$416,000 | \$976,000 |
| 2023 | \$835,200 | \$144,000 | \$691,200 |
| 2024 | \$2,059,000 | \$1,819,000 | \$240,000 |
| 2025 | | | |
| 2026 | | | |
| Total | 7 \$14,050,200 | \$8,205,000 | \$5,845,200 |