

Pataskala Utilities Department

Water Reclamation Facility Upgrade

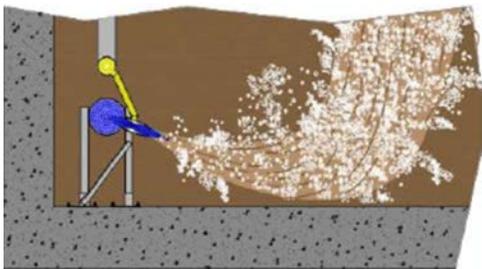
Did you know that the City of Pataskala operates and maintains a Water Reclamation Facility that treats the wastewater of our customers? It has a design daily capacity of 1.1 million gallons per day (MGD).



The original Sewage Treatment Plant was constructed in 1967 and consisted of two lagoons that used a settling process along with microscopic organisms to remove solids from the wastewater. It was replaced in 1989 with a more efficient mechanical aeration system that uses a biological treatment process. Some additional storage space and influent screening were added in 2011.

The current process uses several rotating discs to force air into the wastewater in our Oxidation Ditch. These discs also keep the wastewater well mixed. This process was the best technology available in the past. However, it was very inefficient, and often caused a lower than ideal dissolved oxygen level. The level of dissolved oxygen is critical in providing an environment where the microorganisms can thrive.

To address this issue, the City of Pataskala will be undertaking an upgrade at the Water Reclamation Facility beginning in September of 2020. The majority of the upgrade will focus on the aeration system. We will be switching to a Jet Aeration system that allows for increased dissolved oxygen levels as well as precise control of the dissolved oxygen at different points in the Oxidation Ditch. The upgrades are being done with the intent of



Jet Aerator/Mixer Operation



lowering the level of phosphorous that leaves the Water Reclamation Facility, but they will also give the plant operators much more control in all aspects of the waste water treatment process.

Funding for this upgrade will come from the Water Pollution Control Fund. The City of Pataskala was awarded a loan for this project with a total interest rate of .15%. This allows the department to spread out payment for this large project (\$1.5 million) over the course of a seven year time frame, minimizing the annual impact on the departmental budget. The loan payments will come from the Sewer Capital Improvement Fund.

We would be happy to answer any questions at: Utilities Department, 430 S Main St, 740-964-6275

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