

Oxidation ditch mixers create energy savings in Arkansas

Huntsville, Arkansas, confronted a significant challenge in its wastewater treatment process.

Managing oxygen levels in the face of fluctuating demand, particularly due to the inflow of wastewater from a large food manufacturer, posed a substantial problem.

The 160HP rotors in their aeration basin had to run continuously, consuming resources and causing oxygen overabundance that contaminated anaerobic and anoxic zones.

The Search for a Solution

Bill Eoff, Wastewater Manager at Huntsville, recognized the need for a new, sub-surface mixing solution.

With the complexity of finding mixers that could be installed without disrupting the process due to having just one oxidation ditch, he sought the expertise of their local equipment representative, Instrument & Supply.

Instrument & Supply recommended the separation of aeration and mixing functions, incorporating mixers from Landia as the ideal solution. This approach presented a subtle yet highly effective means of tackling the issue while maintaining operational continuity.



Installation with Precision

The installation of mixers into a full, operational ditch might seem rudimentary to some but is a testament to Landia's no-nonsense simplicity. The process involves about twenty solid blows with a sledgehammer, ensuring that the guide spike is plumb and the mixer is set at the correct height. The installation is quick, taking just two to two and a half hours.

Achieving Substantial Savings

The transformation in Huntsville's wastewater treatment has yielded impressive results. The replacement of costly and high-maintenance rotors with Landia mixers has resulted in a 15% reduction in energy costs.



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