Provo, UT

Ovivo’s LM™ Mixer Aids in Reduced Labor and Tank Cleaning Costs

The City of Provo, UT has two anaerobic digesters (70’ dia) and a sludge holding tank (65’ dia). In 2011, the City purchased an LM™ Mixer for their sludge holding tank. Because the tank had an aluminum cover, a support bridge was provided that spanned the cover in order to carry the load of the LM mixer.”

Below is a testimonial from the plant regarding the performance of the mixer and observation based on the recent cleaning of the tank:

“We have had the digester (really an unheated holding tank) that has the mixer, cleaned about every 4 years...We would accumulate grit, sand, hard sludge, etc. We were worried about building up struvite along the leading edge of the mixer, so we started pumping the tank down to get a visual on the mixer blade. The nice thing about the mixer is that it always stirs in the sludge blanket, and you have a consistent sludge in the tank. As we pumped it down, we saw the mixer was fine...no struvite build-up. We decided to see how low we could pump it down. We emptied the tank. There was no sand, no grit, no sludge...it was down to the concrete floor without even having to use a water hose to wash the sludge to the center of the cone. We may never have to clean that particular digester(holding tank) again. It has also made our centrifuge feed solids totally homogenized, and once the centrifuge is dialed in, it can run almost unattended for the day.”

The plant has been so impressed with the performance of the LM™ Mixer that they have ordered two more mixers that will get installed the summer of 2015 on their digester tanks.