



PUMP: CHOPX Chopper Pumps

INDUSTRY: Wastewater Treatment

APPLICATION: Digester Recirculation

PROBLEM

In 2003 the City of Dallas Southside WWTP were using conventional non-clog pumps to circulate sludge within their digesters but needed to protect the pumps from clogging by installing a grinder in the suction line of each pump. The solids loading in the digesters was significant with frequent formation of matted clumps of hair and rags.

The grinders represented an additional piece of capital equipment that consumed power and required maintenance. Plant operations wanted to find a reliable pumping solution that would eliminate the grinders.

SOLUTION

In early 2004 a three-month trial was undertaken to test our CHOPX chopper pump on this service without the upstream grinder in place. CHOPX pumps feature cutting impellers that perform a dual role of solids reduction and pumping in a single piece of equipment and are specifically designed to handle high concentrations of solids without clogging. The exceptional efficiency of CHOPX pumps also represented an overall power savings benefit.

RESULTS

The pump operated trouble-free throughout the trial period.



The unit was then disassembled for inspection by operations personnel and was found to be completely free of solids in and around the working mechanisms. Moreover, there were no signs of wear (all cutting parts are hardened to a minimum of Rockwell C60 for wear resistance). The plant was so happy with the pump that it was purchased and has been operating exceptionally well requiring no parts replacement!

APPLICATION SOURCE

Hayward Gordon – Western Region