

Wastewater Treatment: PEWE DAF efficiency yields Reuse Water

DAF upgrade leads to sustainable water reuse. Stuart Ward of *Process Engineered Water Equipment* explains the DAF is key...

Case Study

The House of Raeford Hemingway facility experienced a significant fire in 2006. Needless to say getting back to full production was top priority while wastewater treatment languished. As the



Is this your DAF?

production ramped up the old DAF oil/water separator and ponds were over-run and an upgrade was needed. Plant management and maintenance selected PEWE to provide the equipment package.

DAF Optimization

The complete system package sent included a PEWE *T²-Max™ Thickener DAF* and a dual purpose *PolyAccu Dose™* unit for both flocculent and coagulant feeds were implemented. PEWE rounded out the system with a centrally located integrated *Command Control™* PLC. PEWE worked closely with the local chemical representative. The plant process water is now



Local chemical expertise

collected daily in an equalization tank for pH control. From here the water is treated with first coagulant and then a polymer as it enters the DAF vessel via a pipe

PEWE had the system delivered and installation support on site for the commissioning. The un-dissolved TSS and FOG



T²-MAX™ TM-125 DAF

agglomerate in a large oily floc which is periodically swept from the surface of the DAF. The clarified water is then pumped to an anaerobic and aerobic biological



pond system for removal of dissolved BOD. Significantly, 100gpm of filtered reuse water is now brought back to the plant.

Final Results

Upon start-up the water flowed and the new DAF swung into action. The flow proportional chemical system efficiently dosed the proper amount. The insoluble organics were removed from the water. The stainless steel PEWE *T²-Max™ Thickener DAF* proved a dream to keep clean for the operator staff.

House of Raeford Hemingway personnel are completely satisfied with the new wastewater treatment system. It has been a relief not to deal with plugged piping and leaking oil fouling the grounds and ponds. The new PEWE equipment proved easy to operate and maintain. Discharge to the biological system meets requirements. The House of Raeford Hemingway facility now enjoys the benefits of thousands of gallons of clean **Green** reuse water daily.



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