



Case Study

Disc Pumps "Godsend" for Dredging

Citgo Petroleum, Lake Charles, Louisiana

The Challenge

Sludge viscosity 20,000+ cPs

Solids content from 2-40%

Filter press cycle time 90 minutes

The Discflo Solution

Pump uses 'viscous drag' forces so pumping high viscosity easier than other pump designs

No close tolerances good for high solids, abrasive fluids

Disc pump cut filter press cycle time from 90 to 60 minutes



The head of an environmental waste clean-up project in Louisiana described the Discflo system as a "godsend". The pumps, installed in 1994, were used to pump slurry that was dredged from a 23 acre, 50-ft deep site in Lake Charles. The site contained difficult waste products such as hydrocarbons, benzene and many other volatile fluids. The solids content ranges from 2-40%, with viscosities of 20,000 cPs and higher.

Six 806-20", and two 403-14" belt driven Discflo pumps were supplied to tackle this environmental nightmare. Two of the 806 pumps were equipped with 300 HP motors and the remainder with 200 HP motors. An additional feature of the Discflo pumps was that in meeting the flow requirements of the presses they could use the 806s to pump high volume at 300 ft of head and the 403s to pump low volume at 500 ft of head.

The D. R. Sperry Company supplied most of the filter presses. They had hoped to cycle the presses every 90 minutes at the onset of the project, however, with the Discflo pumps they were able to cycle the presses after only 60 minutes. This cut the projected production time by 30%.

A company representative said, "Our remediation company selected Discflo because of its ability to handle highly viscous product and provide the volume needed, together with its durability and lack of maintenance."

Call Discflo now to find out how our pumps can solve your problems.



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