

# CASE STUDY

## Energy, Maintenance Costs Cut

*US Filter, San Diego, California*



### The Challenge

Pump in belt filter press sludge  
Eliminate mixing in grit chambers  
High pump breakdown and repair costs

### The Discflo Solution

Discflo pumps more reliable, less breakdown than previous pumps  
Reduced energy needs at grit chambers  
Discflo design ideal for viscous, abrasive, high solids fluids

Discflo pumps are cutting energy and maintenance costs at US Filter's Wastewater Treatment Plant in San Diego County. Vertical dry pit Disc Pumps have replaced progressive cavity pumps at the belt filter press sludge feed station - one of the toughest applications at the plant.

In addition, horizontal direct-coupled Discflo pumps have been installed to replace piston pumps for primary sludge pumping to an unstabilized sludge storage tank and to replace centrifugal recessed impeller pumps moving grit from the grit chamber bottoms.

As well as lowering the maintenance bill, the Discflo pumps at the grit chamber are also cutting energy costs. The grit chambers typically require mixers to keep the high solids content in suspension and reduce the load on the pumps. However, thanks to the Discflo pump's unique laminar flow design, US Filter has cut the mixer horsepower required and even turned the mixers off for short periods of time, without affecting the pumps' ability to move the extra thick sludge.

Since start-up in mid-2002, the Discflo pumps have proven both more reliable and less prone to breakdown in all these hard-to-pump applications, reports Gene Palop, US Filter's engineer on the project.

**DISCFLO**  
INTELLIGENT. SUSTAINABLE. SOLUTIONS

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