



# Case Study

## Low Radial Loads Lead to High Savings

### *Tar River WWTP, North Carolina*

#### The Challenge

- Seal failure due to radial loads
- Frequent maintenance
- High spare parts bills

#### The Discflo Solution

- Low radial loads on Discflo pump leads to \$14,000 savings
- Pumps have not been opened for repair in eight years!
- Ideal design for viscous, high solids primary clarifier sludge



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Discflo pumps' low radial loads are saving the Tar River Wastewater Treatment plant in North Carolina a small fortune in mechanical seals. The radial loading on the Discflo pump is only 15% of that of a typical centrifugal model. Elsewhere in the plant, where centrifugal pumps are still being used to pump a viscous, high solids fluid, the maintenance department is spending as much as \$14,000 on seal replacements due to the radial loading problem.



The Tar River plant has been using Discflo pumps, model 604-12-4Ds, since 1989 to pump primary scum from the clarifier. As well as saving on mechanical seals, they have greatly reduced their maintenance and spare parts bills. In fact, since start-up eight years ago, they have not had to open up the pumps' front end once.

Warren Geddings, an independent contractor for Discflo, went to visit the plant recently (in 1997) to see how the pumps were performing. He spoke to Dennis Carpenter, the Maintenance Supervisor at the plant: "Dennis told me that his staff have not had to look at the maintenance manual since the pumps were installed in 1989. The only thing they have done in the past eight years is add some extra packing as needed.

"During my visit, I gave Dennis a copy of the new wastewater brochure and he was surprised. He had always assumed it was just another brand of centrifugal pump." "So that's what they look like inside" Dennis remarked, when the pumps were finally opened.

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