



KLEERFLO SELF-CLEANING FILTER CASE STUDY: MINING

Industry: Mining
Region: Namakwa Sands – West Coast of South Africa, north of Cape Town
Product: Kleerflo Self-Cleaning Filter

Challenge

- Sea water is used in various applications as there is no fresh water available on site
- The sea water contains zebra mussels which cluster in mats on top of each other, lining the inside of pipes, which constricts water flow
- To control the build-up of mussels, chlorine is injected into the pipeline which delivers sea water to the mine processing plants, which brings an unwelcome consequence of mussels dislodging from the pipe and discharging at the end of it

Application

Removal of debris from water to protect various types of equipment and systems

Solution

- Kleerflo Self-Cleaning Filters have been installed at different locations throughout the various mine-processing plants to protect: glands on slurry pumps; spray nozzles; spiral separators; WHIMS (Wet High Intensity Magnetic Separation) wash water; and wash down water systems
- Kleerflo, a fully automatic backwashing filter/strainer, designed to remove suspended solids from water, uses a unique backwards and forwards shuttle movement to effect backwashing. This keeps the filters clean and effective without the need for manual intervention

Results

- Simple and low maintenance
- Increased recovery efficiencies
- No manual backwashing
- Minimal wear as Kleerflo has no spinning or rotating parts
- Peace of mind