

Case Study

Customer: Transnet Rail Engineering - Kimberley

Requirement: Separation of oil from water to meet sewer discharge standards

Year: 2010

Discharge Source: Sewer

Oil & Grease <50mg/l



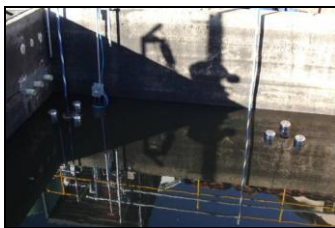
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Transnet Kimberley had two rope skimmer solutions that required upgrading due to **NOT** meeting discharge standards, nor performing to required level of separation efficiency



Before (rope skimmer)



After (Hydrocyclone separator with stainless steel skimmers)

Solution

Diesel Depot: Procon provided 7m³/h system with primary gross oil removal solution which included four Stainless Steel skimmers, decant and holding tank.

Procon first provided minor civil modifications raising the walls of the pit and installing under-overflow piping. Effluent enters the first pit from diesel workshop sumps combined at times with storm water. The first pit is used to capture the sludge, overflowing to the second pit. Procon installed the primary system to remove the gross oil. The decant tanks water then feeds the third pit where the effluent is treated through the 7m³/h and two S1 Skimmers.

Water is now discharged into fourth pit where it is pumped out to sewer meeting discharge standards of below 50mg/l.

Electrical Depot: Procon upgraded the rope skimmer solution to a 3,5m³/h Oily Water separator solution with S1 Stainless Steel skimmers, decant and holding tank.

Minor civil modifications were completed by Procon. Effluent combined with storm water flows through to the effluent plant from the workshops and the sumps where oil is housed in holding tanks

Procon Environmental

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We provide Oily Water Treatment, Floating Skimmers and Bioremediation solutions.

Call us for further information on our innovative hydro cyclone designs, separating oil and other contaminants from water while our Mycelx filtration removes 100% of TPH and oil and grease from water.