

Case Study

Customer: Samancor Tubatse

Requirement: Treatment of effluent at materials handling wash bay, silt trap area and the east plant

Year: 2010

Discharge Source: Waste Oil Tank (for use) and recycled water to supply the pressurized washing system



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Tubatse Ferrochrome is a large commercial ferrochrome smelting operation situated 350km north-east of Johannesburg consisting of three underground mines and two opencast mines.

Samancor is committed to Zero Harm providing safe working environment for their staff and contractors while carefully managing the effect of their business on the environment.

Hydrocarbon contaminants were going to the process water collection dam from where water was pumped to the waste water treatment plant (reverse osmosis). The mine wanted to ensure most hydrocarbons are removed at source in plant to avoid process water dam being polluted & hydrocarbons being discharged to reverse osmosis system.



Stainless steel skimmer

Solution

Procon Environmental installed a OS35 (3,5m³/h) system at the East Plant and the OSMH (materials handling wash bay) where the East Plant focuses on water treatment the OSMH site includes aeration tank pumping clean water to reuse tank to supply the pressurized washing system there by recycling water on site.

At the silt trap approximately 20% of the flow is skimmed off through a stainless steel skimmer and separated through the Os70 (7m³/h) Ultraspin unit.

2012: Due to a new substation being built on one side of the road it was required that the current oil separator solution be moved. Now the vehicles and equipment wash bay and workshop water effluent is treated through the 3,5m³/h separator system. The water is then sent to the treatment plant for further purification

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We provide Oily Water Treatment, Floating Skimmers and Vehicle Wash Water Reclaim Systems.

Call us for further information on our Ultraspin 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.