



Pall Corporation

HYDRAULIC &amp; LUBRICATION

# Application Bulletin

## MINING



### Application

With the global demand for raw materials and precious metals on the rise, mining operations are increasing capacity to keep up with the added demand. Likewise, operators are looking for ways to improve their overall impact on the environment by investing in technologies that remove harmful hydrocarbon contaminants from waste water streams.

### Problem

A large Indonesian gold and copper mine was having numerous problems with existing oil skimmers, used to reduce oil contamination within their waste water collection pits. Their target of a maximum of 50ppm of free hydrocarbons within the discharge water was not being consistently achieved. The existing oil skimmers needed high maintenance, with continual belt failures and spare parts being hard to source.

### Solution

The mine installed numerous Pall Belt Skimmer systems to remove oil and other hydrocarbons from their waste water collection pits and haul truck wash down bays.

### Results

The installations proved highly successful with the Pall Belt Skimmer systems removing up to 100 litres/hour of oil from the waste water pits. Results showed that the level of hydrocarbons within the water streams was reduced to < 50ppm of free hydrocarbons.

The mine now uses the collected waste oil as a secondary fuel source on site for their power station and lime kilns thus saving on diesel fuel.

### Pall Belt Skimmers reduce oil contaminants in waste water



**Pall Belt Skimmer System installed on waste water collection pit**

*Encouraged by the results, simplicity of design and the reduced maintenance of the new systems, the mine site has embarked on an upgrade program, gradually replacing all existing systems with Pall Belt Skimmer systems*

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