

Case Study

Customer: Transnet New Multi-Product Pipeline

Requirement: Effluent and Oily Water Treatment

Year: Pump Stations 2010-2012, Inland Terminal 2011-2014,
Coastal Terminal 2012-2014

Discharge Source: Varies: Municipal Sewer, Sewage Treatment plant, Environment and Wetland



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The NMPP project consists of three 16 inch inland pipelines, a 24 inch trunk line from Durban to Nigel and accumulation facilities in Kwa-Zulu Natal and Gauteng, and is designed to safely transport petroleum products from the coast to the inland market of South Africa in an environmentally-friendly manner.

In the process of pumping, fuel spillages, no matter how small, do occur. The spillages are contained and washed to central spill basins for containment and treatment.

Pictures of Oil Separator on site



Spill Recovery System and 20m³/h Engineered Oily Water Separator solution at Pump station

Solution

The 3 Pump Stations are each equipped with 2 systems:

- A system to remove gross (free floating) hydrocarbons before entering spill basin
- An Oily Water system to treat remaining free floating, emulsified and dissolved hydrocarbons, handling 20m³/hr.

Performance tests after commissioning proved that the discharge limit of 2.5 ppm hydrocarbon in water was achieved.

The Inland Terminal is equipped with 3 systems:

- A system to remove gross
- An Oily Water system handling 60m³/hr.
- Storm Water system handling 160m³/hr.

The Coastal Terminal is equipped with 2 systems:

- A system to remove gross
- An Oily Water system handling 40m³/hr.

Installation, commissioning and performance tests are in progress.

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