

SCOPE

Substrates: sand  
Pollution: heavy  
Pollutant: fluid to slightly viscous  
Sea: with or without tides



*Egmolap scraper*

EQUIPMENT NEEDED

Basic equipment:

- Land-based EGMOLAP scraper

Extra equipment:

- Loader
- Vacuum tanker

DESCRIPTION/PRINCIPLE

Land-based Egmolap scrapers are made up of a conveyor belt mounted on the hydraulic arm of a small loader, which removes the oil by scraping it from the sand saturated with water or at the water's edge. A settling tank fitted to the back of the loader ensures the separation of oil and water. The oil is then pumped by a vacuum tanker coupled with a loader.

CONDITIONS OF USE

Pollution: fluid to moderately viscous, in a thick continuous slick.  
Substrate: good load-bearing capacity; flat, regular surface; wet to saturated sand.  
Site: vast and accessible to small earthmoving equipment, without blocking traffic.

IMPACT ON THE ENVIRONMENT

Physical: little superficial disturbance due to the circulation of machinery.  
Biological: little to none (surface scraping) mainly due the compacting of the sand; possibility of sand mixing with the pollutant if the traffic is poorly organised.

PERFORMANCE

Yield:  $\frac{1}{4}$  [(speed (1 to 3 km/h) x (average strip width (#1 m) x thickness)].  
Minimum workforce required: 3 people (2 drivers + 1 assistant)  
Waste: oil + sediment with high oil content (at least 50%).

OBSERVATIONS

- Very selective collection.
- Very restricted window of use.
- Can also be used at the water's edge on floating oil.
- Existing models are very rare.