



## REMOVAL/ADHERENCE USING SPECIALISED EQUIPMENT

N 07

### SCOPE

Substrates: sand  
Pollution: light to heavy  
Pollutant: moderately to highly viscous  
Sea: with or without tides



### EQUIPMENT NEEDED

#### Basic equipment:

- Roller

#### Extra equipment:

- Tractor (model may vary): loader, farm tractor, self-propeller crawler
- Loader for waste disposal.

### DESCRIPTION/PRINCIPLE

Involves using specially designed rollers to take advantage of the adherence and trapping capacities of certain coatings for viscous pollutants. There are different sizes of rollers; the larger ones are pushed by farm or earthmoving machinery; the smaller ones are fitted with caterpillar tracks and can be self-propelled or pushed along by hand. The materials used to cover rollers range from geotextiles (*Bidim* or *Enkamat* types) to simple carpet fabric. Some small models are not covered with material, but rather the oil is collected using nails or wire. A scraper automatically removes the pollutant from the surface of the cylinder, and it is then transferred into a receptacle. This technique is particularly effective on scattered viscous pollutant.

### CONDITIONS OF USE

Pollution: moderate to very high viscosity; fresh oil; micro tar balls to patties, or even small patches if using large rollers.  
Substrate: flat surface with few ripple marks and without solid waste (obstructing contact); fine- to coarse-grain sand; firm ground saturated with water.  
Site: good load-bearing capacity and accessible to large machinery; slightly to moderately sloping.

### IMPACT ON THE ENVIRONMENT

Physical/biological: none

### PERFORMANCE

Yield: variable according to equipment, pollutant and pollution, sites...

Minimum workforce required: 1 person (1 driver).

Waste: pollutant generally mixed with little sand (viscous pollutant); if the pollutant is relatively fluid: heavily polluted sand containing at least 50% oil.

### OBSERVATIONS

- Very selective recovery.
- Complements sand screening.
- Very restricted window of use (fresh pollutant; wet, hard, fine- to coarse-grain sand).
- Only a few models, varying in size, available on the market.