

SCOPE

Substrates: sand, stones
Pollution: light to very heavy
Pollutant: all types
Sea: with or without tides



EQUIPMENT NEEDED

Basic equipment:

- Front loader
- Shovels, power shovels
- Skimmers/pumps, sorbents, landing nets
- Storage tanks/bins

Extra equipment:

- Land-based logistical support to deploy equipment/for waste disposal...
- Screening (mine screening) or washing installation (concrete mixer, concrete mixer drum etc.)

DESCRIPTION/PRINCIPLE

Involves removing polluted sand and stones (with a view to treating them by screening or washing at a nearby installation) then returning them to their original location as quickly as possible.

CONDITIONS OF USE

Pollution: all types (preferably not very weathered oil).

Substrate: sand, stones.

Site: site that is accessible to earthmoving machinery and has an open space on the back beach which is close and large enough to accommodate the installation and logistics to wash or screen the sediments.

IMPACT ON THE ENVIRONMENT

Physical/biological: related to the traffic of heavy duty machinery and the removal of sediments; temporary risk of erosion of the site (the impact can be extremely detrimental or even irreversible if this risk is not properly assessed); risk of destruction of the vegetation on stones at the top of the shingle bar.

PERFORMANCE

Yield: variable according to the means used and the characteristics of the site and the pollution.

Minimum workforce required: 1 person per machine + 1 supervisor.

Waste: N/A

OBSERVATIONS

- In the case of large volumes of sediments and a long worksite duration: accurately assess the risks of erosion (for instance in the event of a storm) or the rupture of the shingle bar, or even flooding of the hinterland: seek advice from a geomorphologist beforehand.
- Be selective during removal (to restrict the volume which will need to be cleaned).
- Remove sediments gradually and compensate for the loss by returning clean sediments as you go along (tight flow).
- Sediments must be returned to the site from which they were removed.
- Consider the possibility of surfwashing to complete washing operations.