

OIL SKIMMER

A mechanical device to collect spilled oil without changing its physical and chemical properties

TYPES OF OIL SKIMMER

- Oleophilic skimmer
- Weir skimmer
- Suction skimmer
- Mechanical skimmer
- Induction skimmer

OLEOPHILIC DISC / DRUM SKIMMER

Adhesion of oil to the disc/drum which is rotated through the oil/water surface.

Adhered oil scrap into a collection sump and pumped away to a storage tank.

OLEOPHILIC DISC SKIMMER



Adhesion of oil to the surface of the discs.



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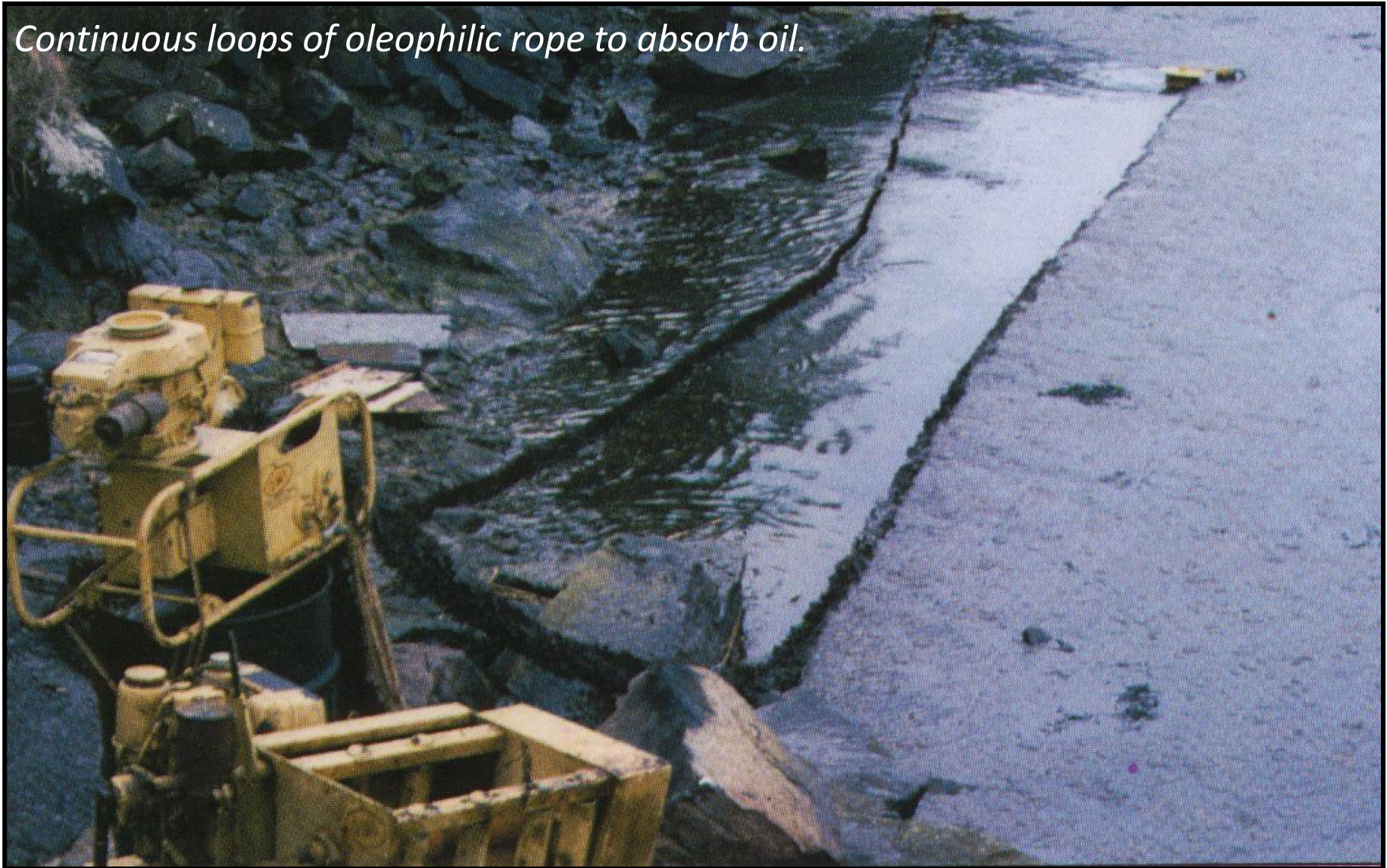
OLEOPHILIC ROPE SKIMMER

Continuous loops of oleophilic rope that floats on oiled water surface.

A roller mechanism pulls the rope and wrings the absorbed oil into a collection sump.

OLEOPHILIC ROPE SKIMMER

Continuous loops of oleophilic rope to absorb oil.

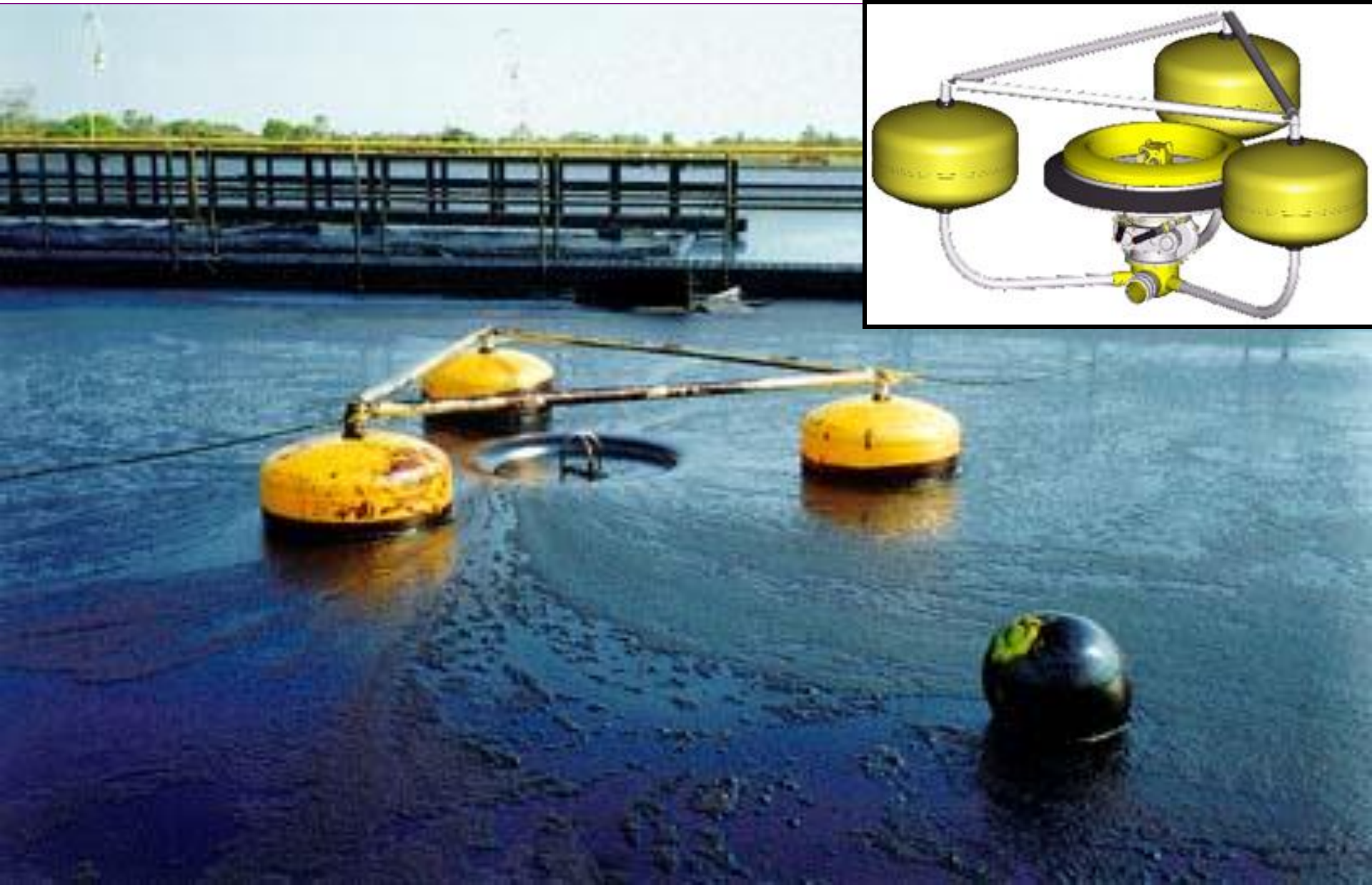


WEIR SKIMMER

Oil flows over a self leveling weir and be trapped in a reservoir of the skimmer.

The trapped oil then pump out to a temporary storage tank.

WEIR SKIMMER



SUCTION SKIMMER

High speed air velocity inside the suction hose lift the oil from water/ground surface.

SUCTION SKIMMER

Power pack
& spate pump

Discharge hose

Suction hose

Skimmer head



SUCTION SKIMMER

High air velocity inside the suction hose produce by external pump.



MECHANICAL EQUIPMENT

1. Effective for very viscous & solidified oil
2. High collection rate in thick layer oil
3. Mechanically simple and robust
4. Require little training
5. Not effective in low viscosity oil
6. Best in calm water

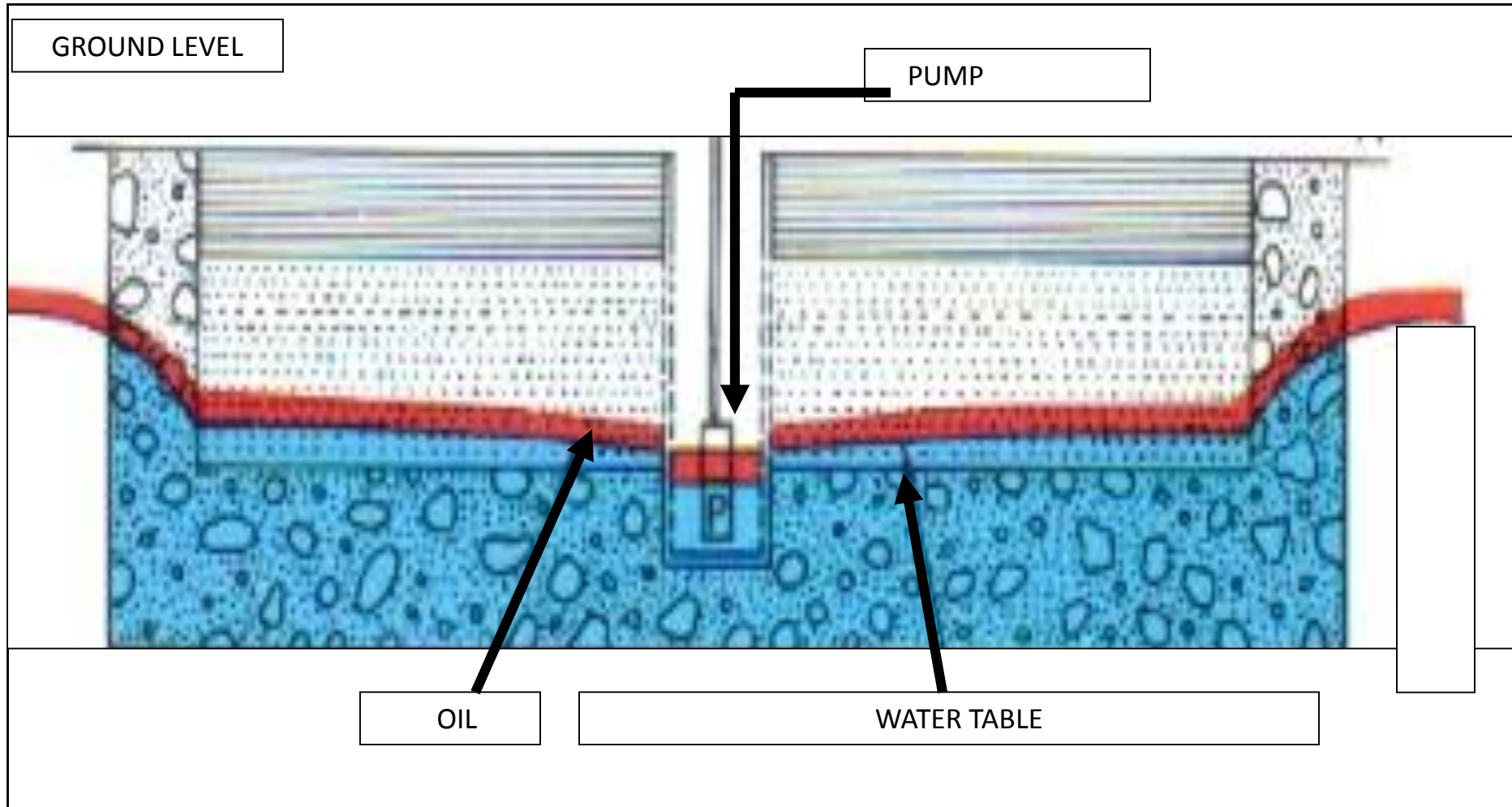
MECHANICAL EQUIPMENT



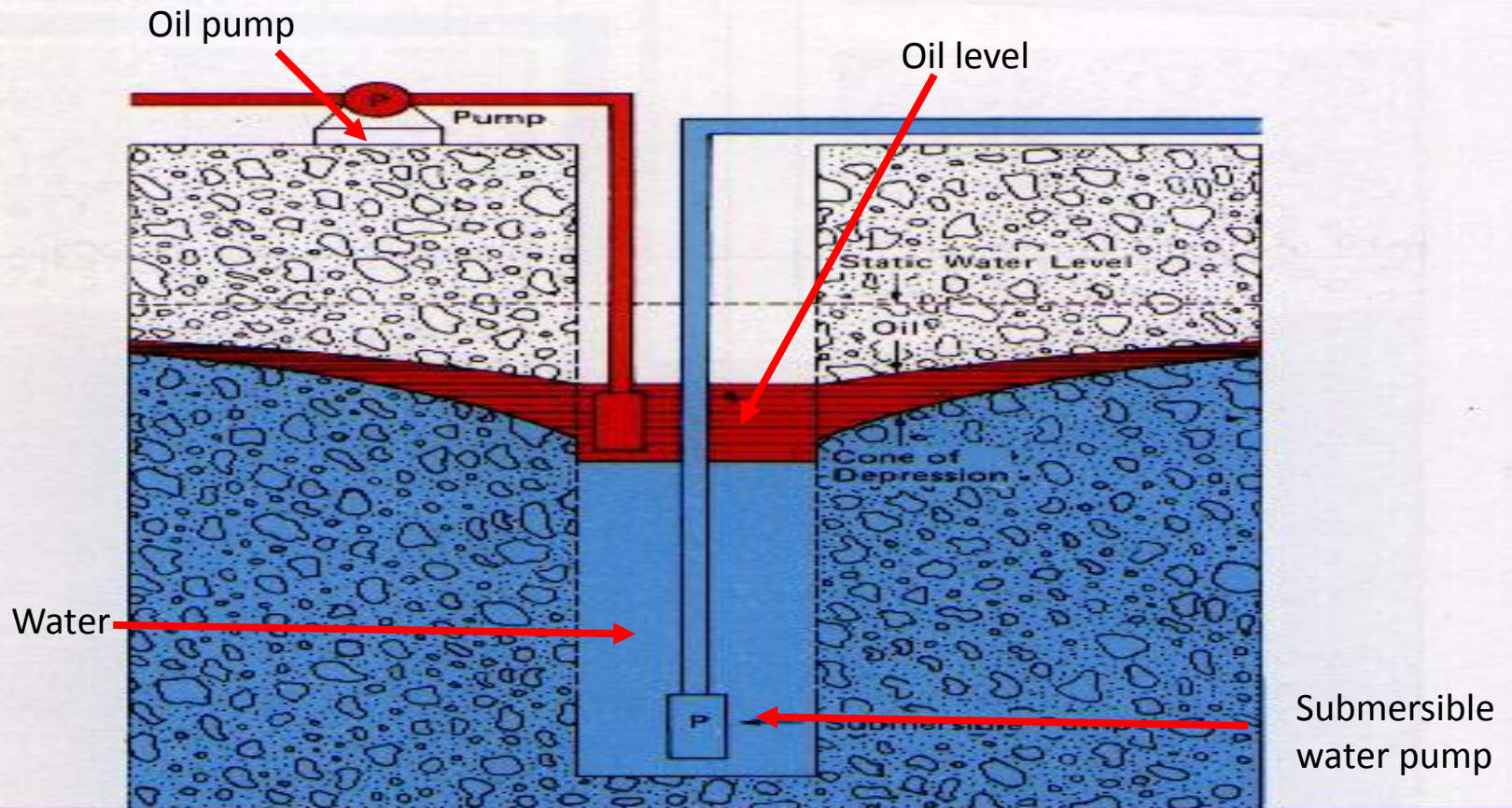
RECOVERY PUMP SYSTEMS

- Single pump recovery
- Double pump recovery
- Pump & skimmer

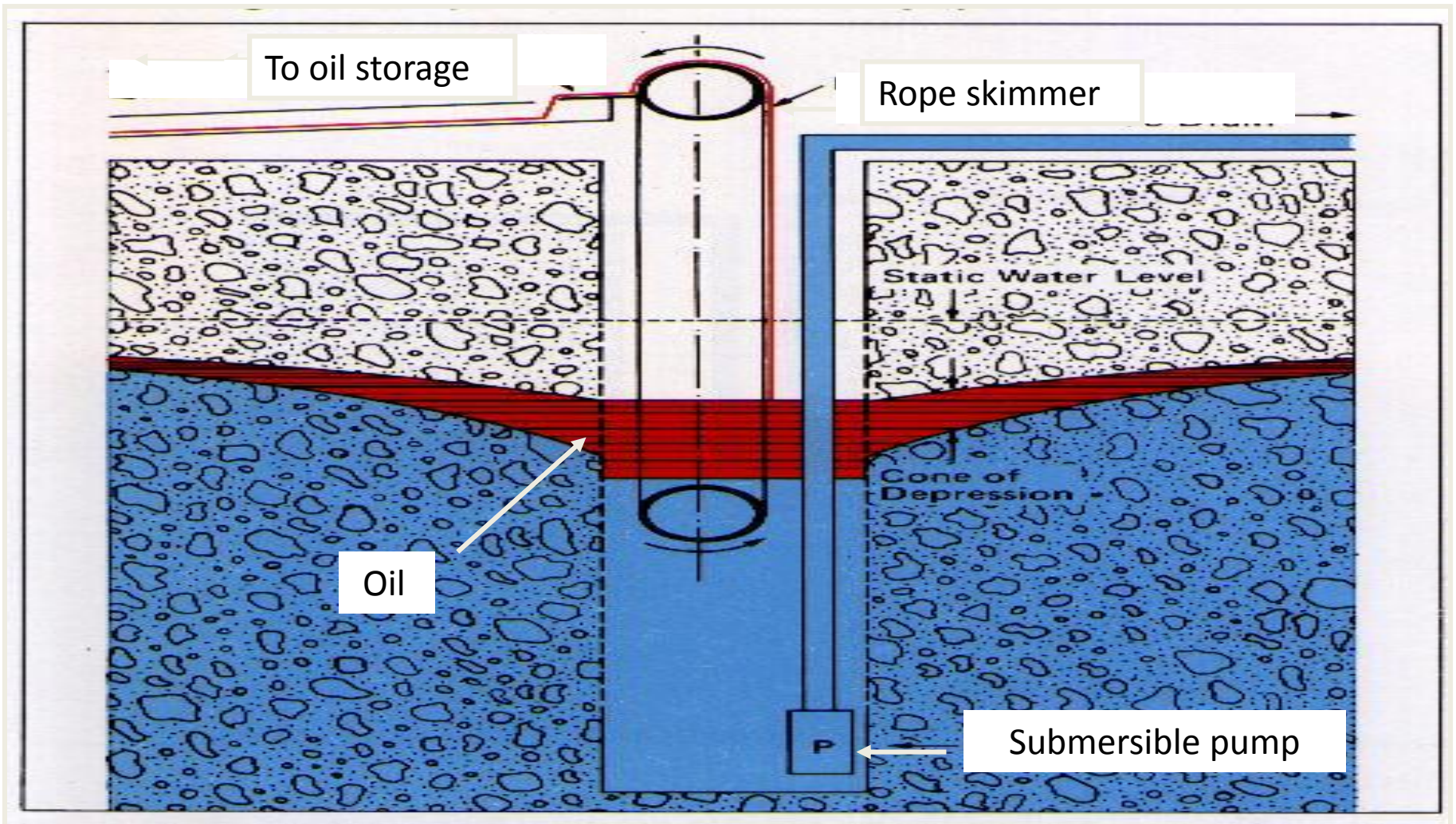
SINGLE PUMP RECOVERY



DOUBLE PUMP RECOVERY

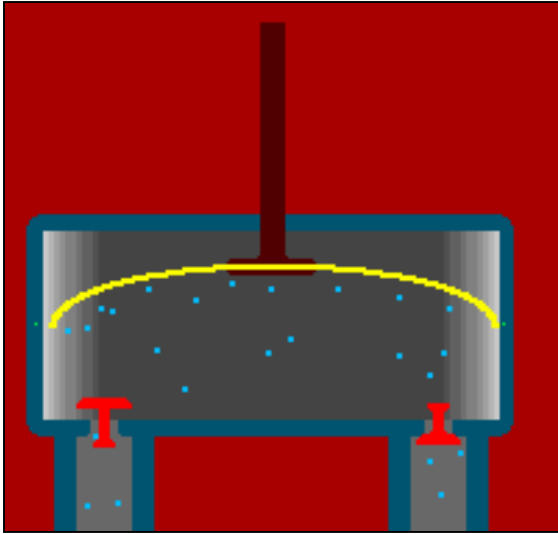


PUMP AND SKIMMER

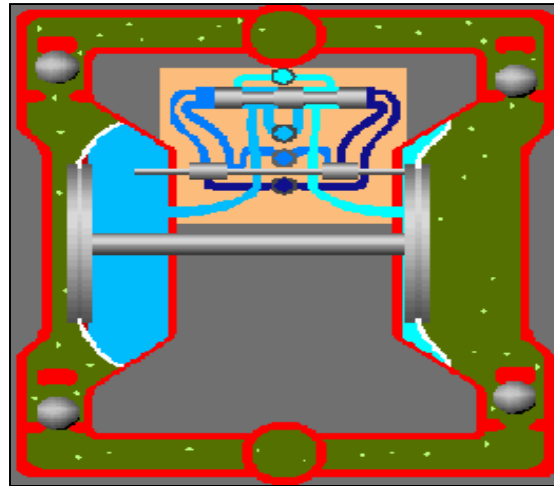


TYPE OF PUMP

Single diaphragm



Double diaphragm



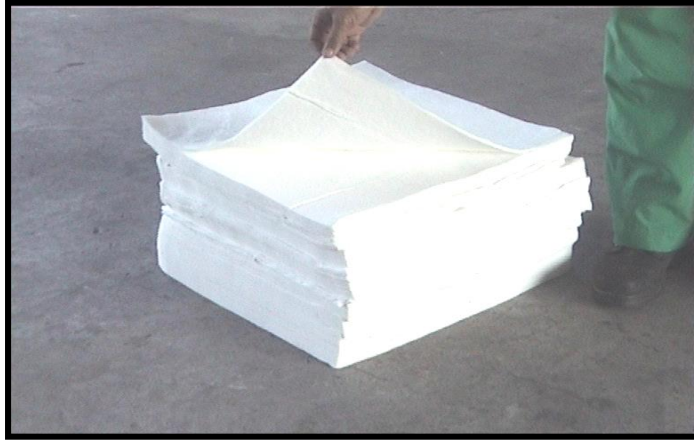
Centrifugal



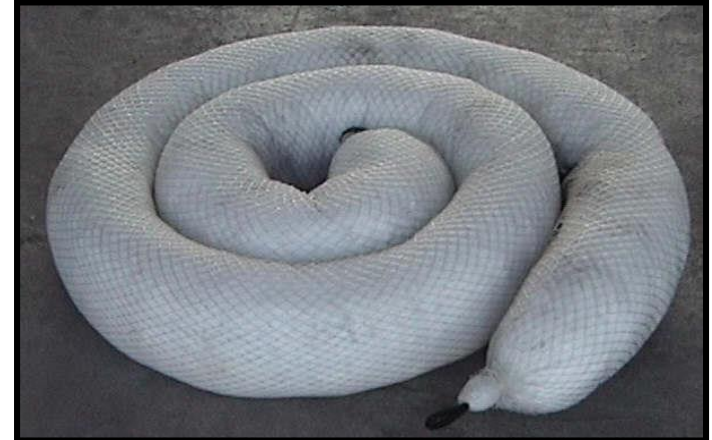
ABSORBENT

1. Synthetic
2. Natural
 - *Organic*
 - *Inorganic*
3. Mixture

TYPES OF ABSORBENT



Pad



Boom



Roll



Pillow

ABSORBENT CHARACTERISTIC

- ✓ Oleophilic
- ✓ Hydrophobic
- ✓ Quick/large absorption
- ✓ Oil retaining & not sinking
- ✓ Not harmful & strong

ONSHORE STORAGE

Pail



Fast tank



Storage tank



ONSHORE STORAGE

PP bag



Drum



IBC tank



QUESTIONS