The three phase processing system SEPS combines established separation principles such as temperature enhanced hydro-cyclonic effect, steam stripping, progressive sedimentation, filtration and vacuum drying. Recovered oil is clean and dry; produced water is suitable for industrial drain; and sediment is dry and friable - without leachable oil, therefore suitable for landfill, land-farming or mixed in road base.

The SEPS system processes mixtures which can be made pumpable and where there is an inherent gravitational difference between the components. This can include storage tank sludge, lagoon sludge, recovered oil spills, solvent-rich industrial waste etc.

Safety features include interlocked air operated valve systems, explosion-proof power units, Zone 1 electrics and enclosed gas condensation system.

Advantages comparing with traditional rotating devices:

- No internal moving parts
- High capacity (typical actual operating range 30-40m³/h)
- Reliable and durable (no complex high speed components)
- Generally commonly available spare parts
- Chemicals or additives not normally required
- Adapts automatically to fluctuating feed quality
- Can handle wide range of oil / water / sediment contents
- High oil recovery rate
- Good quality products
- Independent operation
- Semi mobile
- Energy efficient
- Low vapour emissions
- Inherently safe

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Hydraulic Power Pack:
Supplies motive force for the sludge dozer and hydraulic pump.
Designed to operate in Zone 1 areas and incorporates many safety features
Skid mounted

Independent Utility Supply Plant:
Fully self contained unit including 4.5tph / 10 bar steam boiler, 135kVA electricity generator set, and 9cfm compressed air supply. Has facility for softening water or other dosing if required.

Hydraulic Lagoon pump
For lagoon sludge removal and transfers

Hydraulic dozer
For lagoon cleaning and tank cleaning work

Intrinsically safe
Versatile
Will pass through an 18” manway
Remote operation possible