

CESS LAGOON REMEDIATION

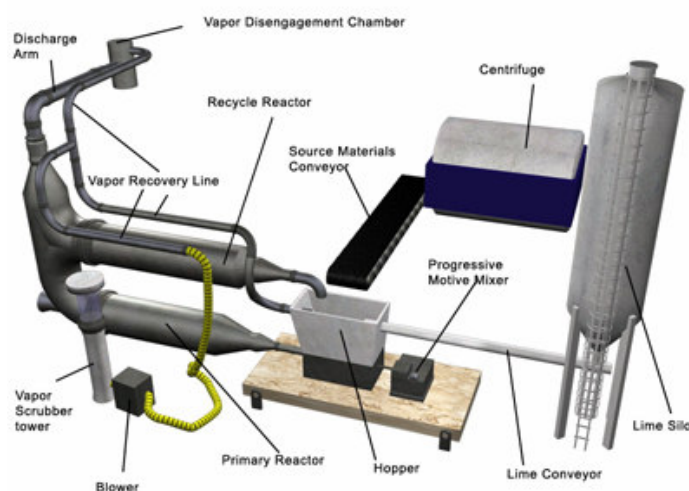
Lagoons containing sewage sludge and agricultural wastes pose a serious threat to world health and the environment. Such lagoons are directly responsible for nitrate ground water contamination, mosquito and other vectorant diseases, such as cholera, malaria, typhus, cysticercosis, etc.

Eco-Solids International Limited has developed a process, called the *Eco-Solids Process*, that can remediate these lagoons and reduces or eliminates the adverse health effects caused by such polluted areas.

The *Eco-Solids Process* is a continuous lime stabilisation process suitable for treating all types of sewage sludge. The process produces an enhanced treated biosolid product, or Class A/EQ product, called *Eco-Solid*, which exceeds European and US regulatory requirements. The process has several key effects on the on the sludge:

- A reduction in sludge volume
- Improved percentage of solids of the product
- Complete inactivation of microbiological activity
- A reduction in volatile solids (VS)
- A reduction in water extractable phosphates
- A reduction in nitrates

Full technical details about the Eco-Solids Process and its benefits can be found in a separate report entitled 'Eco-Solids Process Technical Description', which is available for download from our website (www.ecosolids.com).



A lagoon, containing water and solids, is dredged using remote controlled dredging equipment. The power is provided using an on-site diesel generator or local power. The dredger pumps the material into a surge tank, having a capacity of 8000 litres. This material is chemically conditioned and transferred directly to dewatering equipment. The dewatering equipment separates the water from the solids.

The resulting liquid can be filtered, and disinfected, using chlorine, and re-used as irrigation water. The solids can be applied to the land if appropriate or, by preference, processed into a sterile condition prior to land application using the *Eco-Solids Process*.

All the equipment needed for the project could be shipped from either the UK or the USA. Eco-Solids would provide training and technical support for the project. Engineering drawings and equipment specifications would also be available at a later date. All equipment specified and provided would be "off-the-shelf" ensuring cost-effectiveness and simplicity of maintenance.

Protecting People and the Environment from Disease, Chemicals and Smells

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