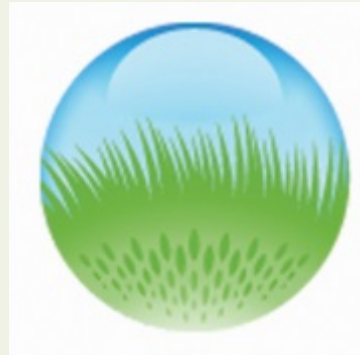


SEWAGE EFFLUENT DISPOSAL FOR SMALL PLOTS



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Basin at about 50cm deep

The easiest and cheapest way is to plant directly to the ground into a basin, which is needed to prevent effluent runoff to surrounding area. However this method may incur deep drainage, which is not allowed by EPA on some soil types



Vetiver planting at 5/m²



Six months after planting

Where EPA regulation prohibits deep drainage, the basin should be lined with impermeable geotextile and filled up with sand or soil





All Terrain Tank



Planting should be spread to cover the whole basin at density of 5plants/m².

This 10m² planting area is big enough to dispose sewage effluent from a 4 person household.



American Red Cross built 3 500 units for the Tsunami disaster in 2 009 in Aceh, Indonesia



This planting unit is designed for a household of 6 persons.

VETIVER

This grass is being used as a low impact alternative to managing effluent.

The increased uptake rate of Vetiver reduces odours, leakages and contamination of the subsoil and water table.

Thank

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