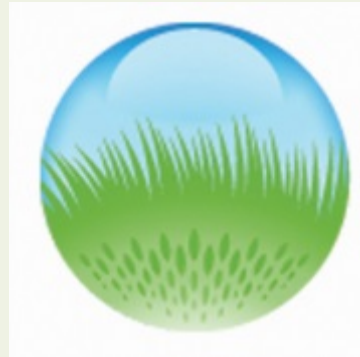


# SEWAGE EFFLUENT DISPOSAL FOR SMALL PLOTS



**Paul Truong**

*TVNI Technical Director*



**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/m<sup>2</sup>**



**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/m<sup>2</sup>.**

**This 10m<sup>2</sup> 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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