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# Treatment of turtle aquaculture effluent by an improved multi-soil-layer system

Key words:

Turtle aquaculture effluent,  
Multi-Soil-Layering (MSL) system,  
Sludge,  
Microbial community diversity

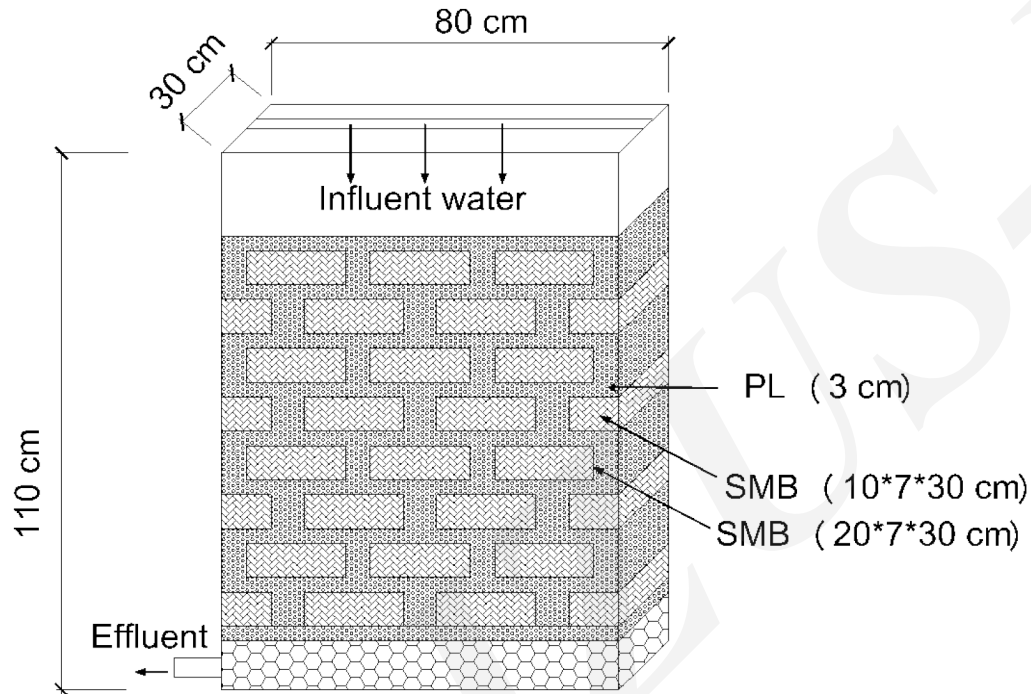


# Turtle wastewater scenarios

- At present, large quantity of wastewater containing high concentrations of ammonium, phosphorus and organic matter being released into rivers without any treatment . Several processes have been hampered by limited land space, high operational costs, complicated operations and maintenance.
- Several processes have been hampered by high investments cost, complicated operations, large land occupation and so on.



## Basic structure of the MSL system



Schematic diagram of testing device

The MSL system is considered an efficient, cost-effective, small land occupation and easy operating technology for wastewater treatment (Chen et al., 2009).

## The multi-soil-layer (MSL) system

