CE-441-ENVIRONMENTAL ENGINEERING II

LECTURE 16 -ON-SITE SANITATION TREATMENT.

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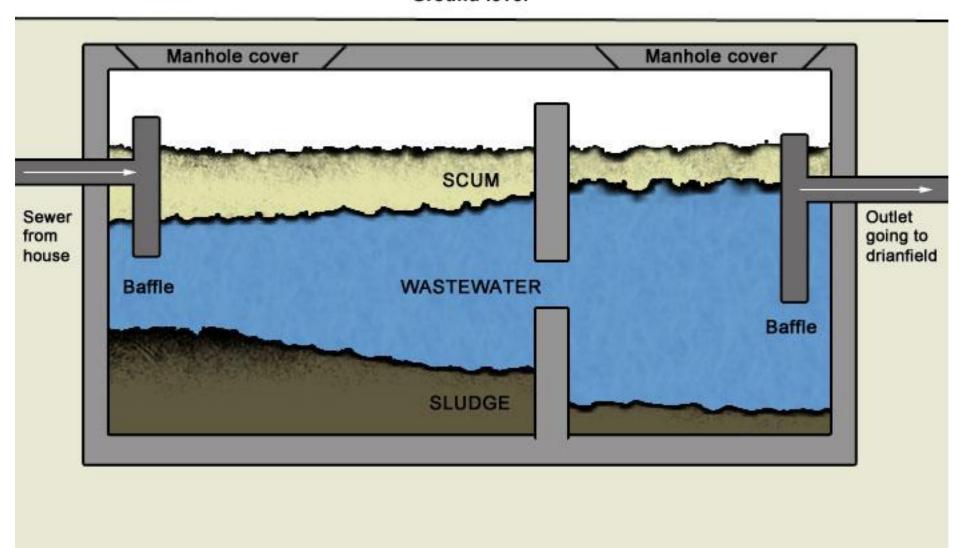
ON-SITE WASTEWATER MANAGEMENT TECHNIQUES

Septic Tank:

- A septic tank is an underground structure, the purpose of which is collection, storage, and to limited extent the treatment of sewage.
- A typical septic tank system normally operates by gravity and consists of a tank and soak away drain.
- The septic tank is designed to accomplish two tasks:
- 1. Clarification (removal of suspended solids, fats, oils and greases)
- 2. Treatment (partial decomposition of the settled organic matter by anaerobic digestion)

ON-SITE WASTEWATER MANAGEMENT TECHNIQUES

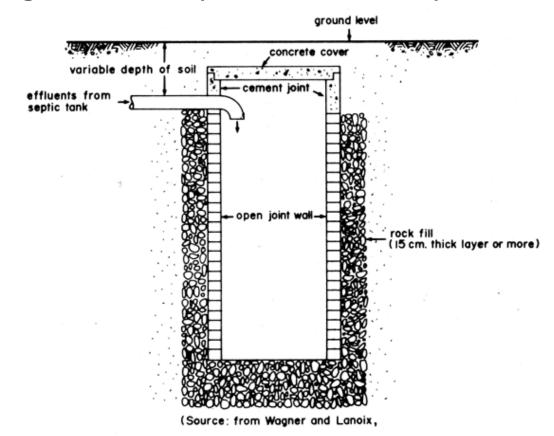
Ground level



ON-SITE WASTEWATER MANAGEMENT TECHNIQUES

Soak-away (Soak Pit):

Soak away is an underground soil treatment system, which receives
partially treated sewage from a septic tank and dispose it off into soil.



ON-SITE WASTEWATER MANAGEMENT TECHNIQUES

NOTES:

- 1. Effluent from a septic tank must be discharged into a soak pit.
- 2. Bottom of a Soakage pit must be at least 3 m above the ground water table.