

# SEPTIC TANK

# Facts

An **individual** system

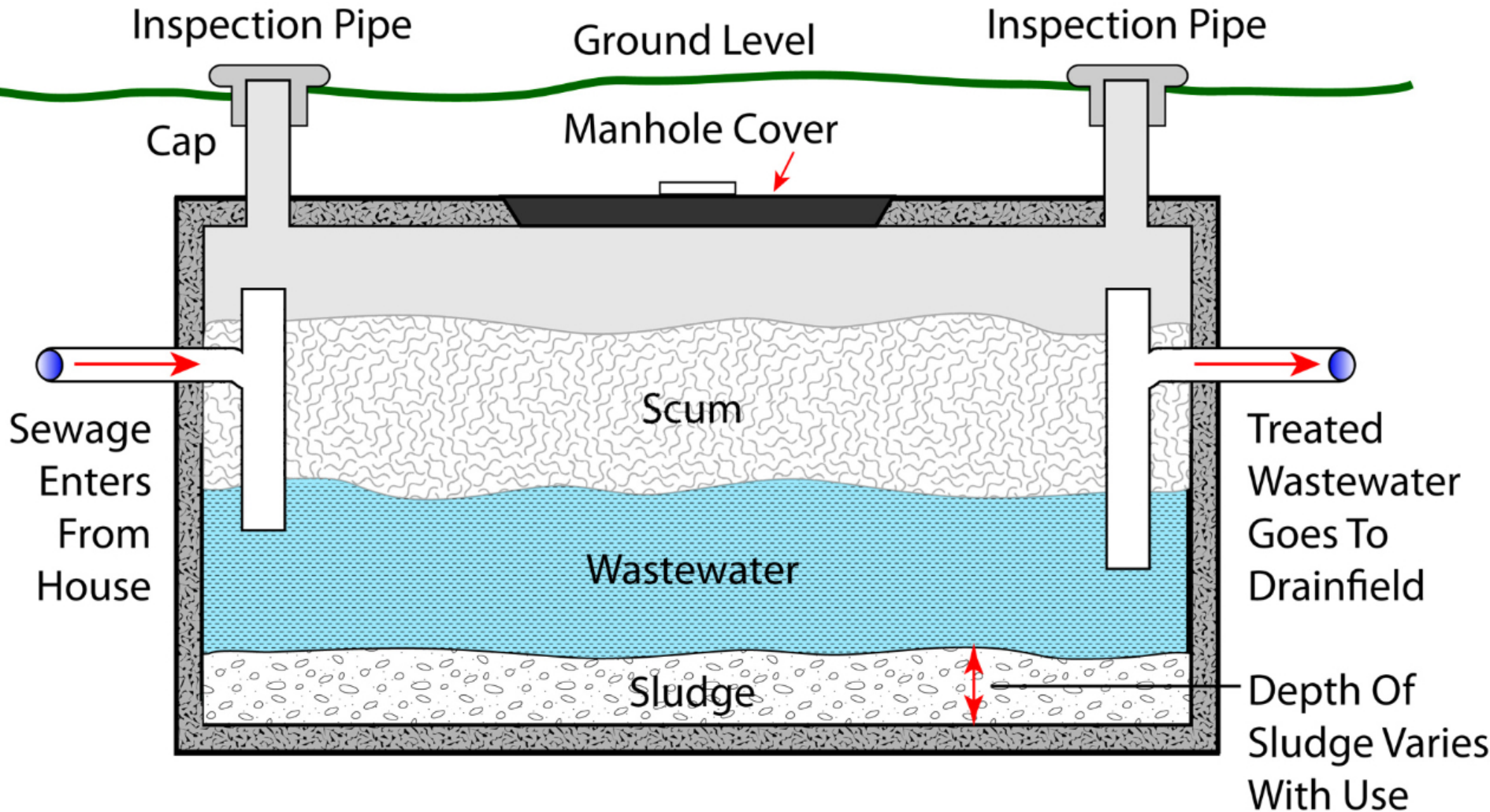
Receive wastewater from **toilet** or **wash-basin**

Digestion occurs **anaerobically**

The tank acts as a **digestion reactor** and **sedimentation tank**

Sludge/biomass and oil, grease/fat need to be **removed** from the tank from time to time





# Schematic of a Septic Tank





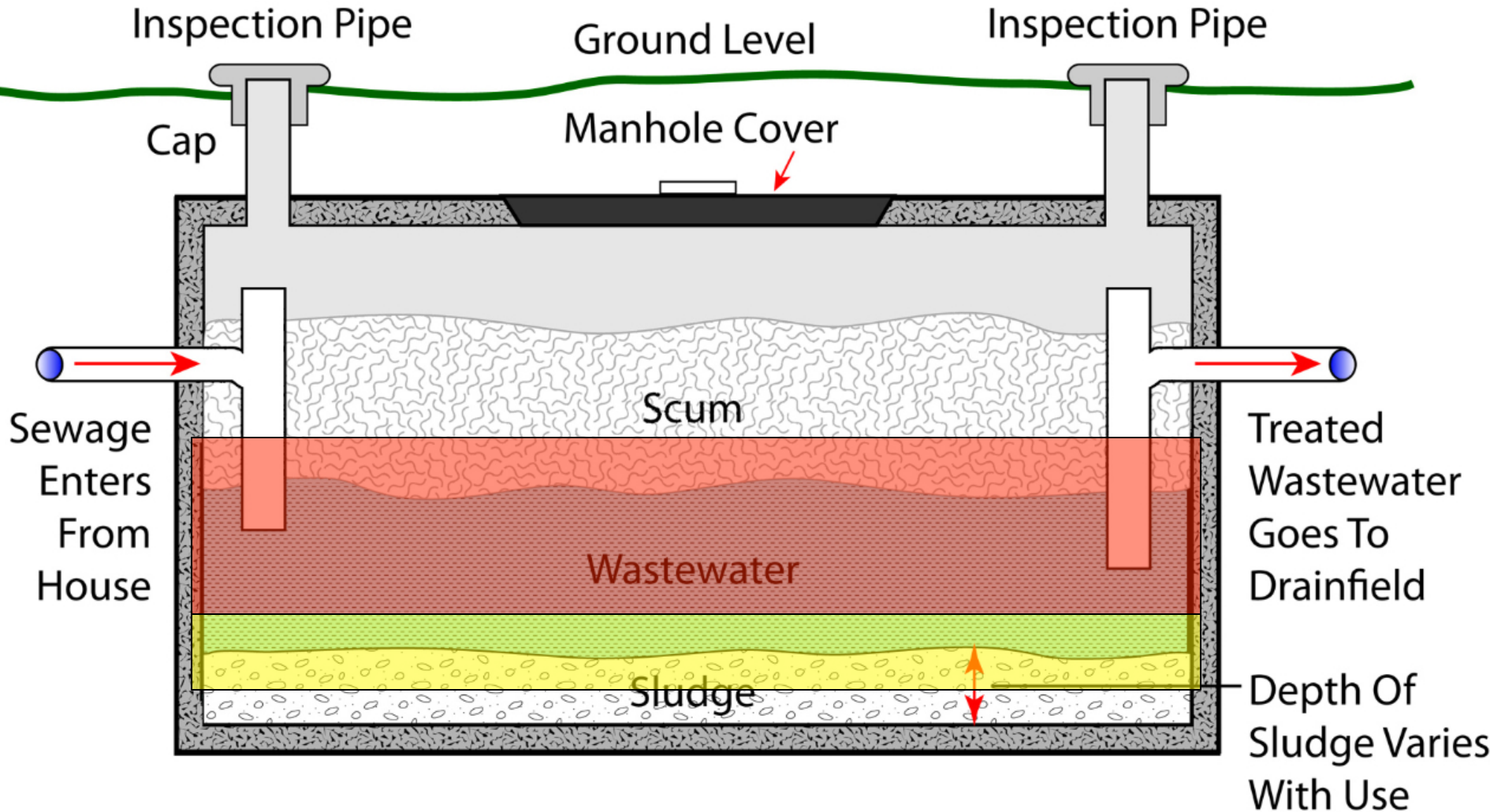




**INDOGRAHA**



Design



# Schematic of a Septic Tank

# Typical Design Value

**Waste-  
water  
flow rate**

**225** L/  
person/day

or

**70%**

of water supplied



**Waste-  
water**

**HRT**

**1 – 3**

days

**Sludge  
generation  
rate**

**30**

L/person/year

# Sludge

# HRT

# 1 – 3

years

**Length-to-  
width  
ratio**

**2:1**

**to**

**3:1**



**Side** **1.2 m**  
**water** **to**  
**depth** **1.8 m**

**Free-  
board  
height**

**0.5 m**

# Soil Absorption System

Method to discharge treated wastewater

Soil acts as a **natural filter**

Suitability of the system:

Groundwater level

Soil porosity

