

# Ontario Onsite Wastewater Association



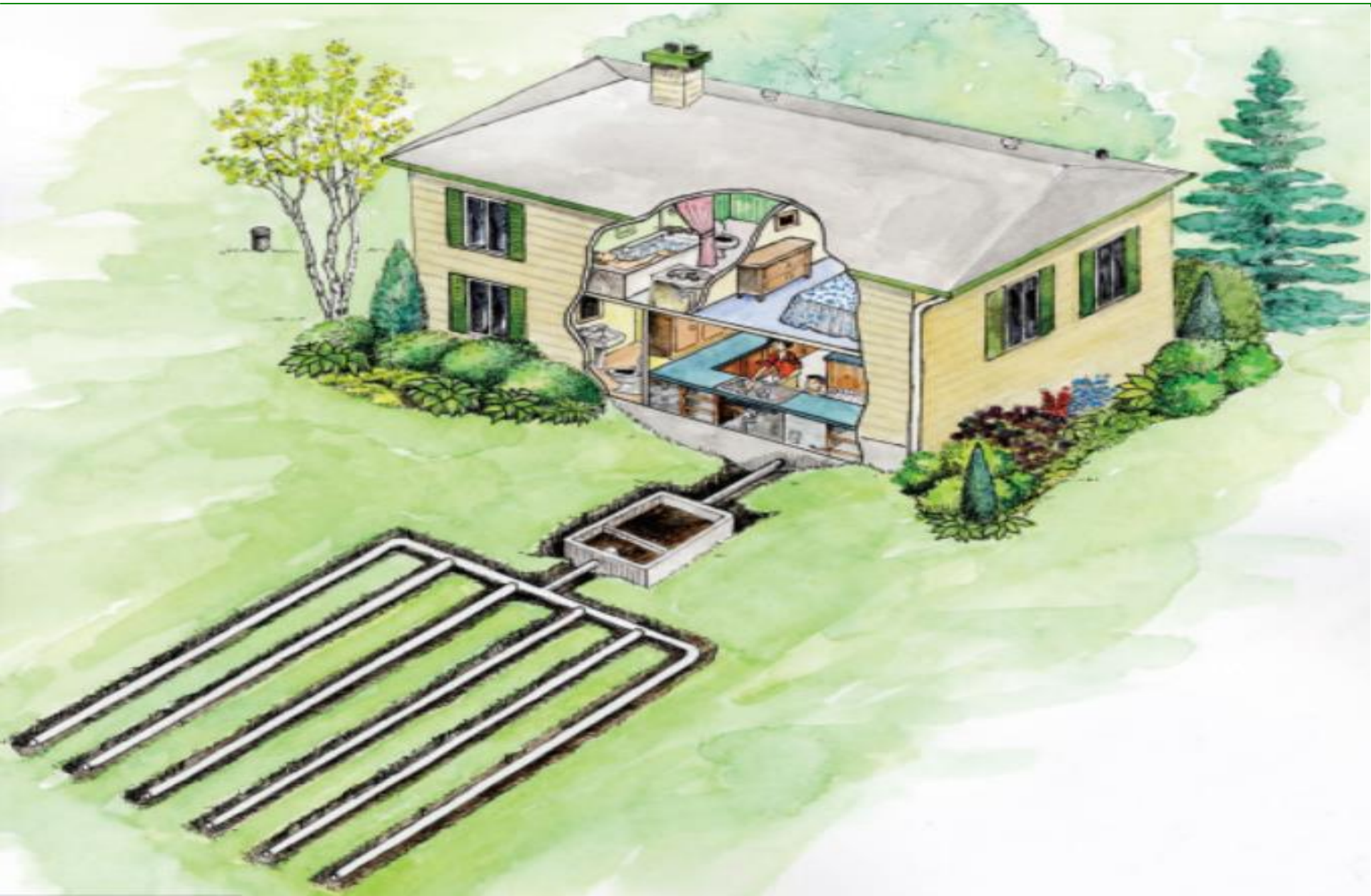
Muskoka Stewardship  
Conference

PRESENTED BY:

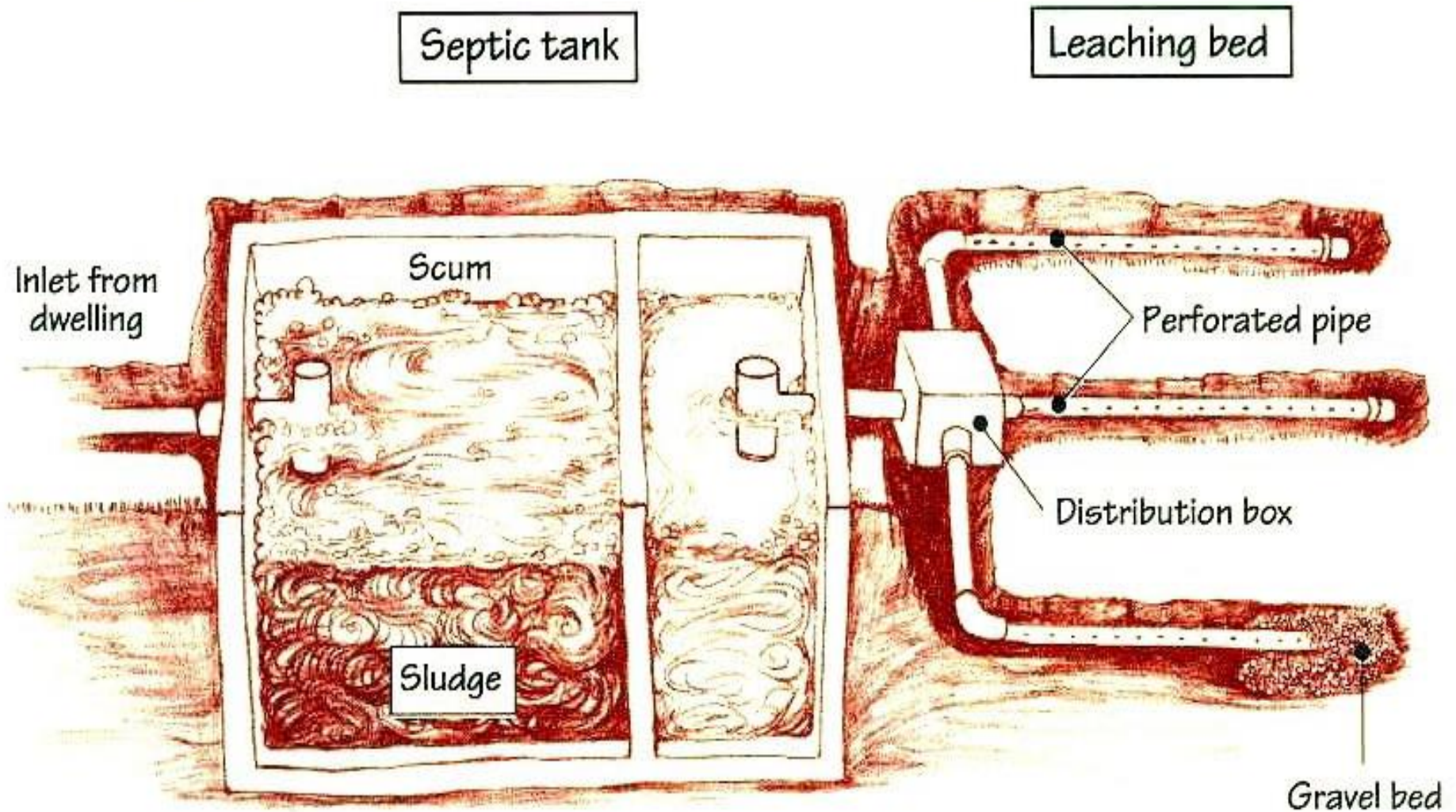
**RICK ESSELMONT**

**PRESIDENT – ONTARIO ONSITE WASTEWATER ASSOCIATION**  
**(Volunteer)**

# Onsite Treatment vs. Onsite Disposal

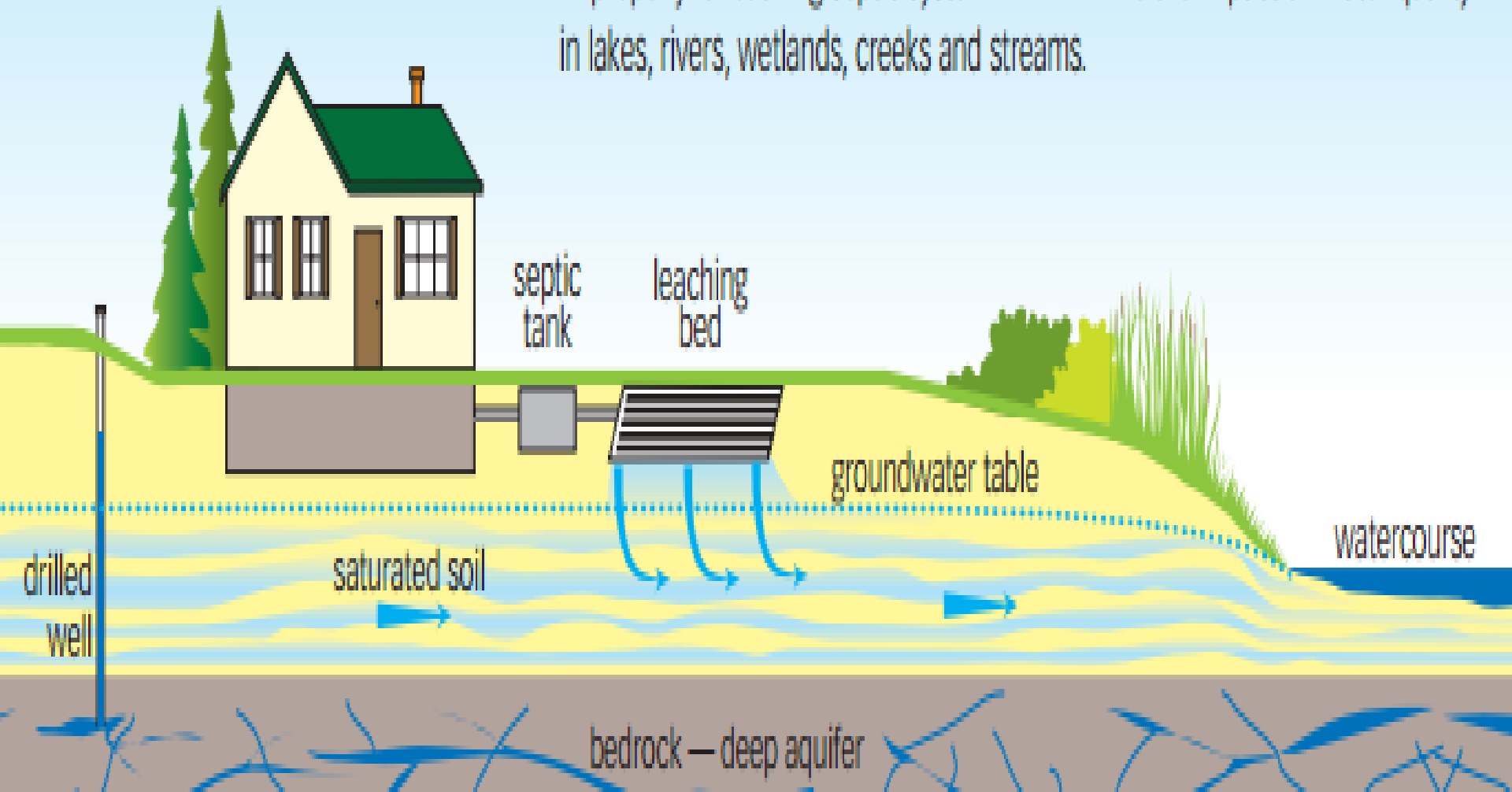


# Onsite Wastewater Disposal

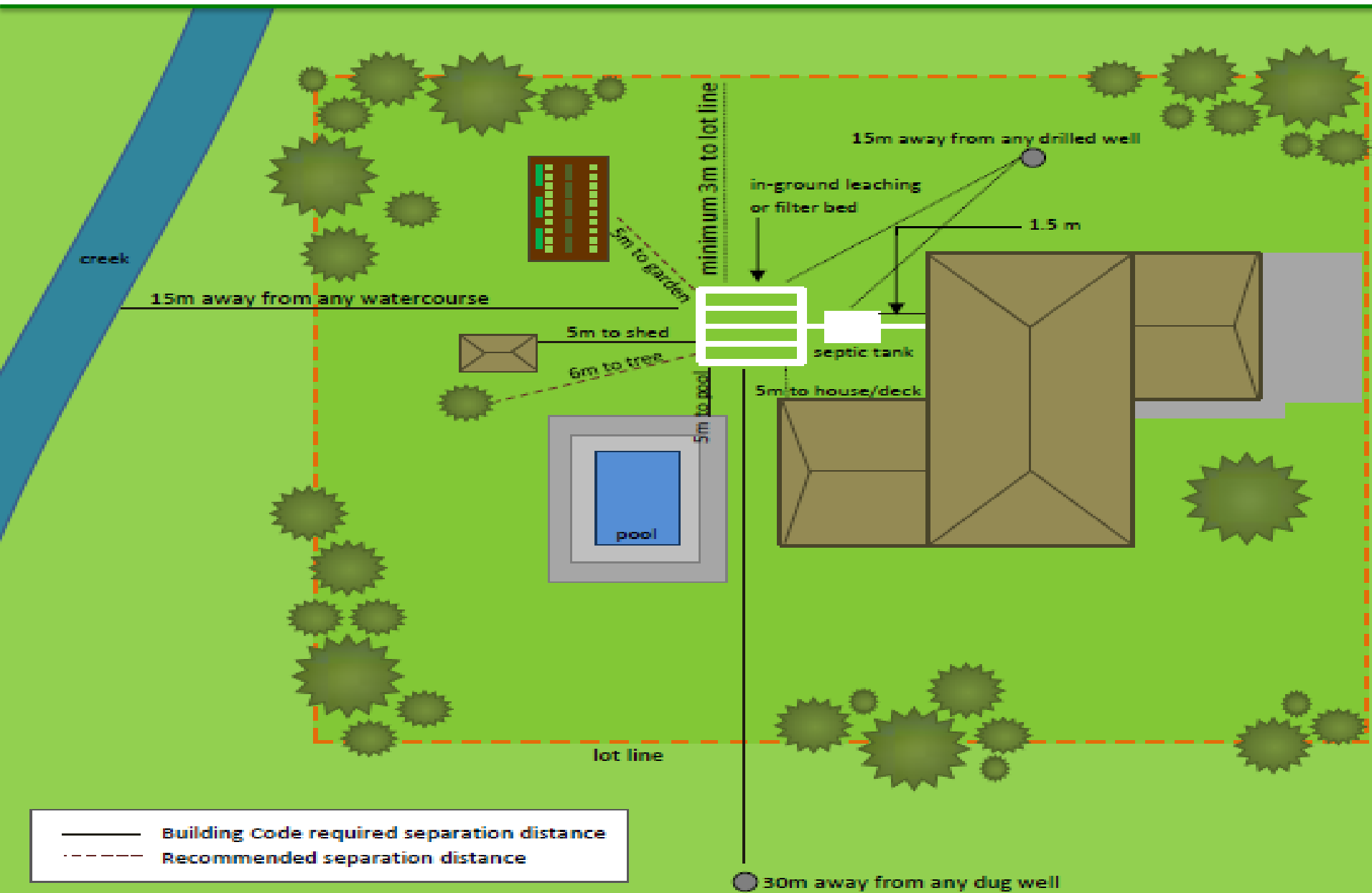


# Onsite Wastewater Treatment

A properly functioning septic system will minimize the impact on water quality in lakes, rivers, wetlands, creeks and streams.

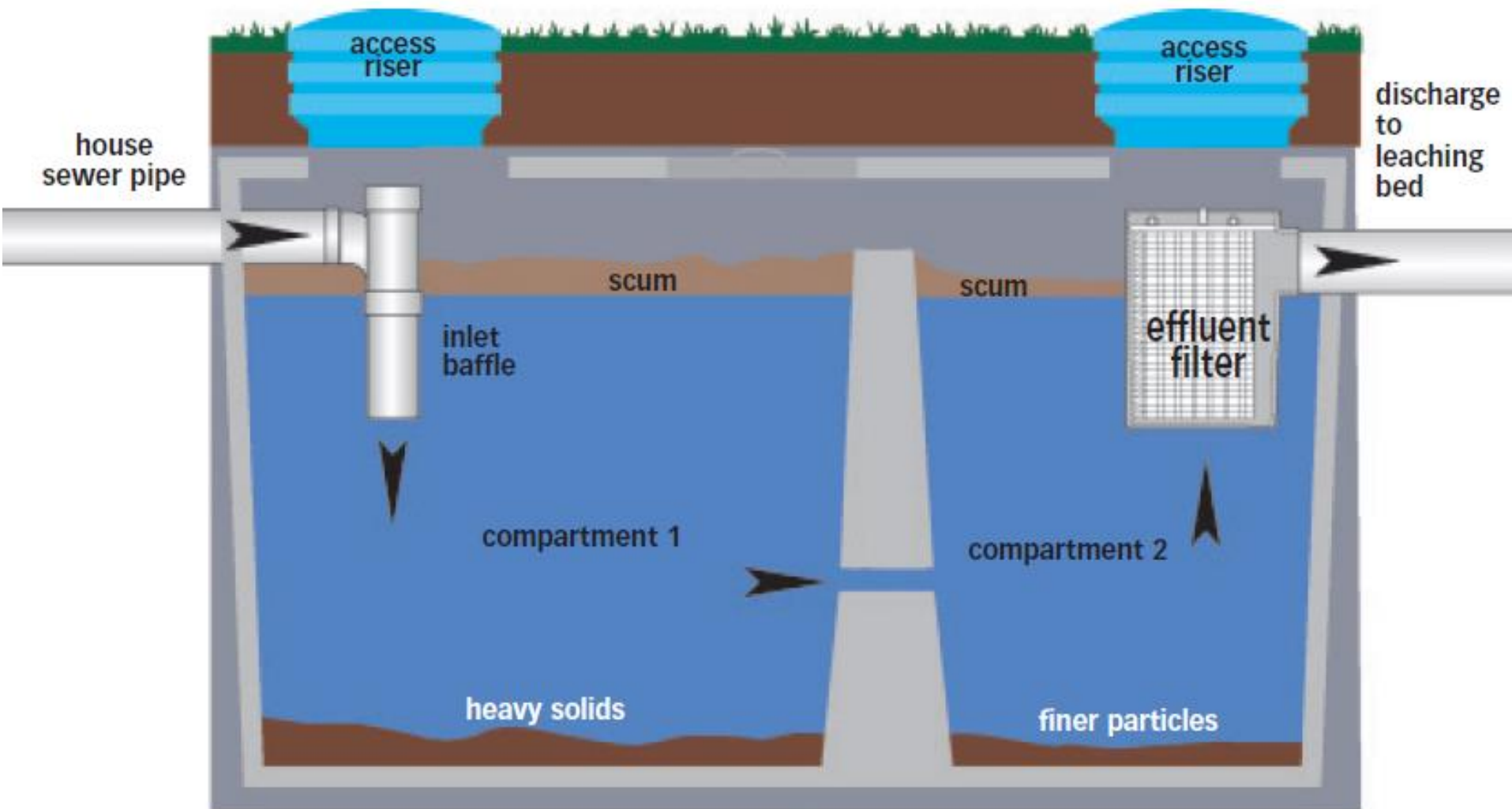


# Individual to Each Property



# Conventional Septic Tank Configuration

## Parts Of The Septic Tank

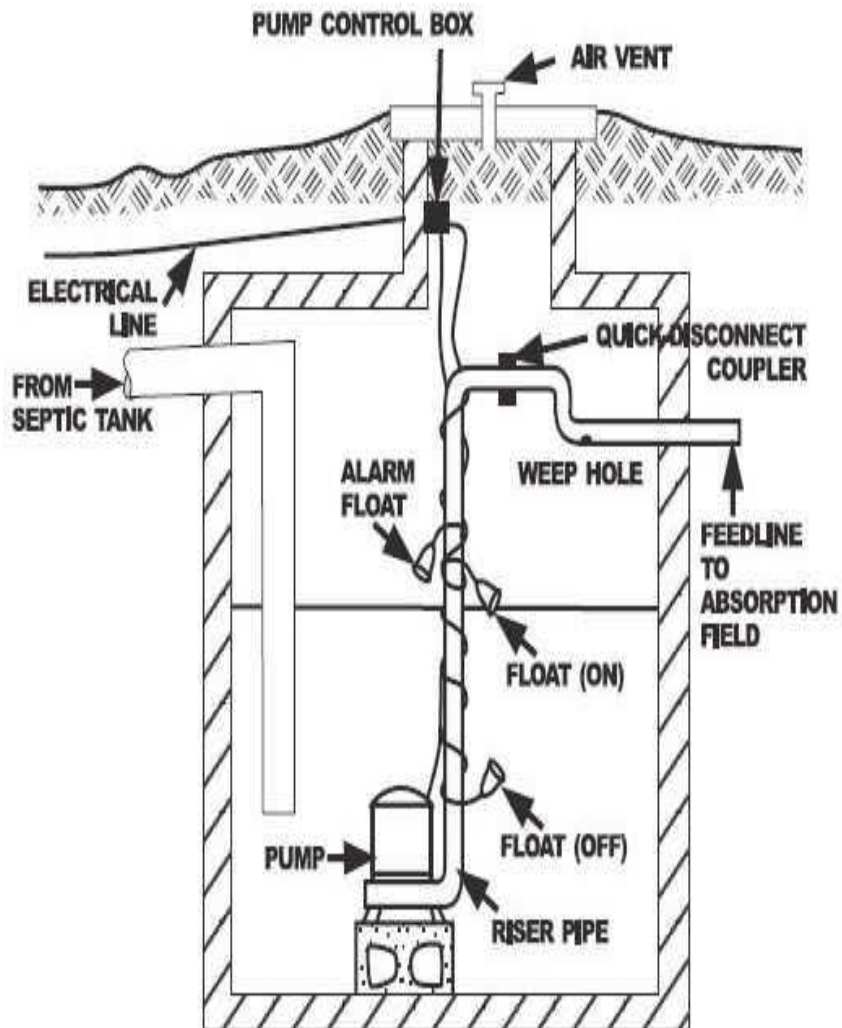


# Effluent Filter

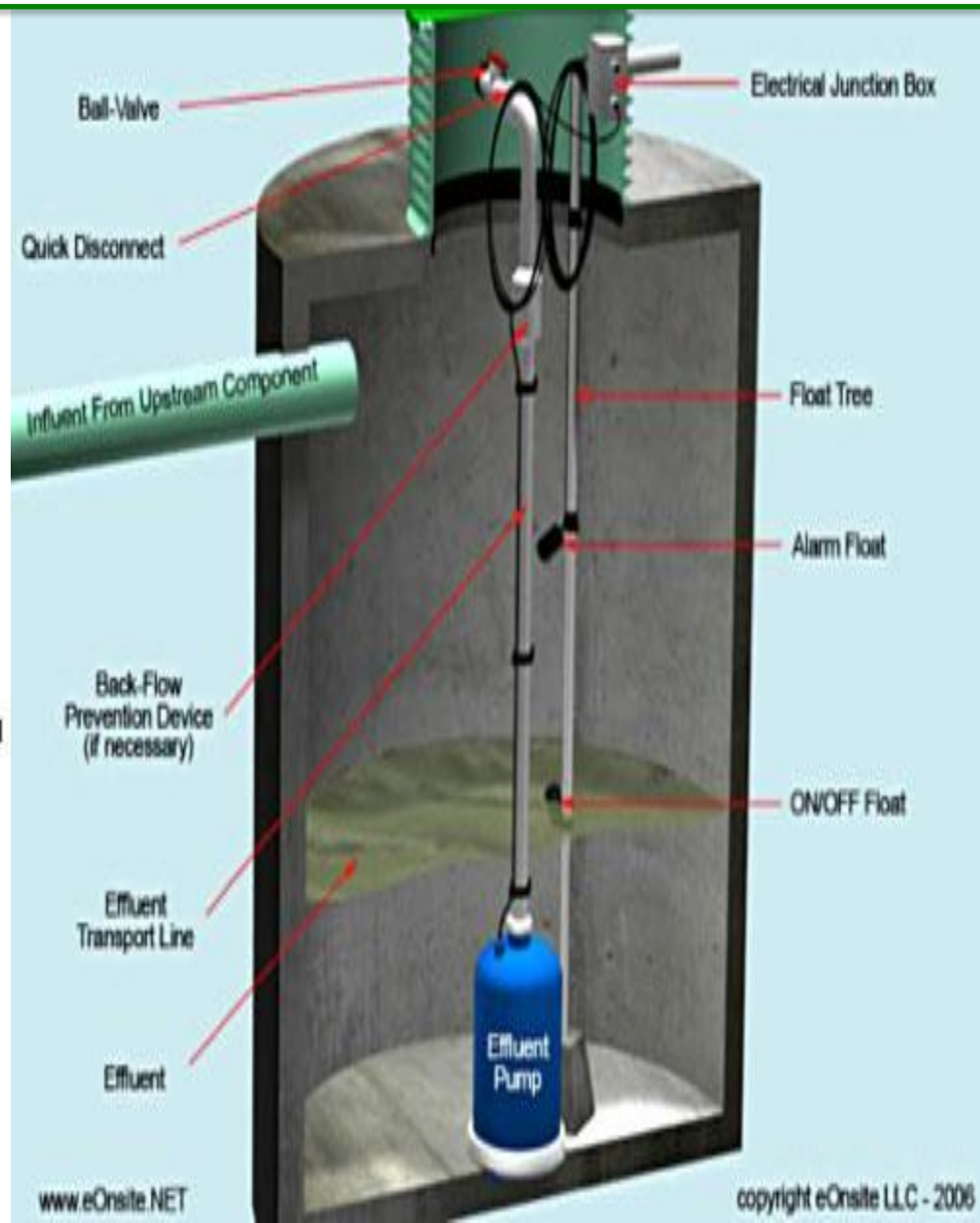


# Pump Chambers

Pumping tank (generic)



Source: US EPA, Purdue University 1990



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# Pump Chambers



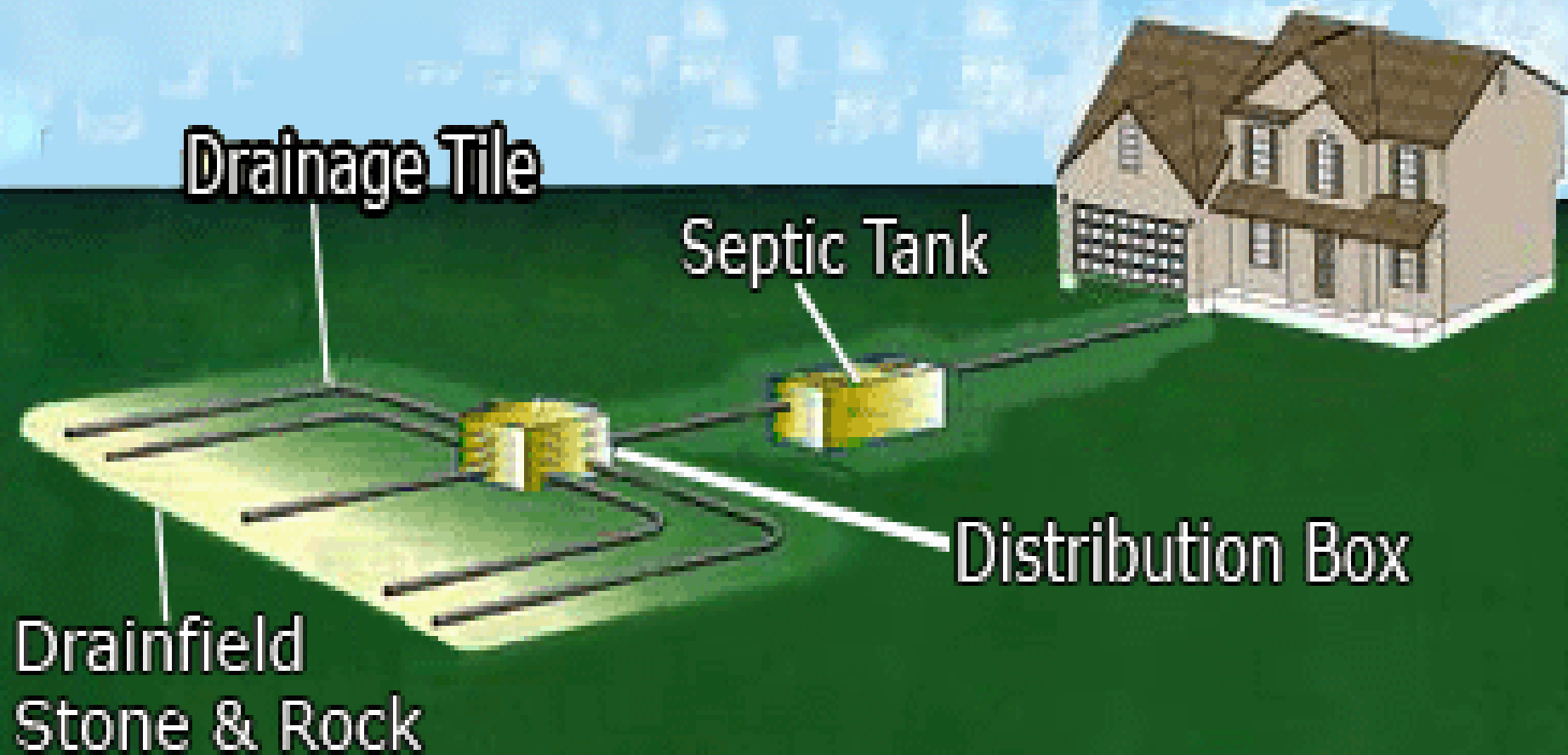
# Pump Chambers



# Distribution Boxes



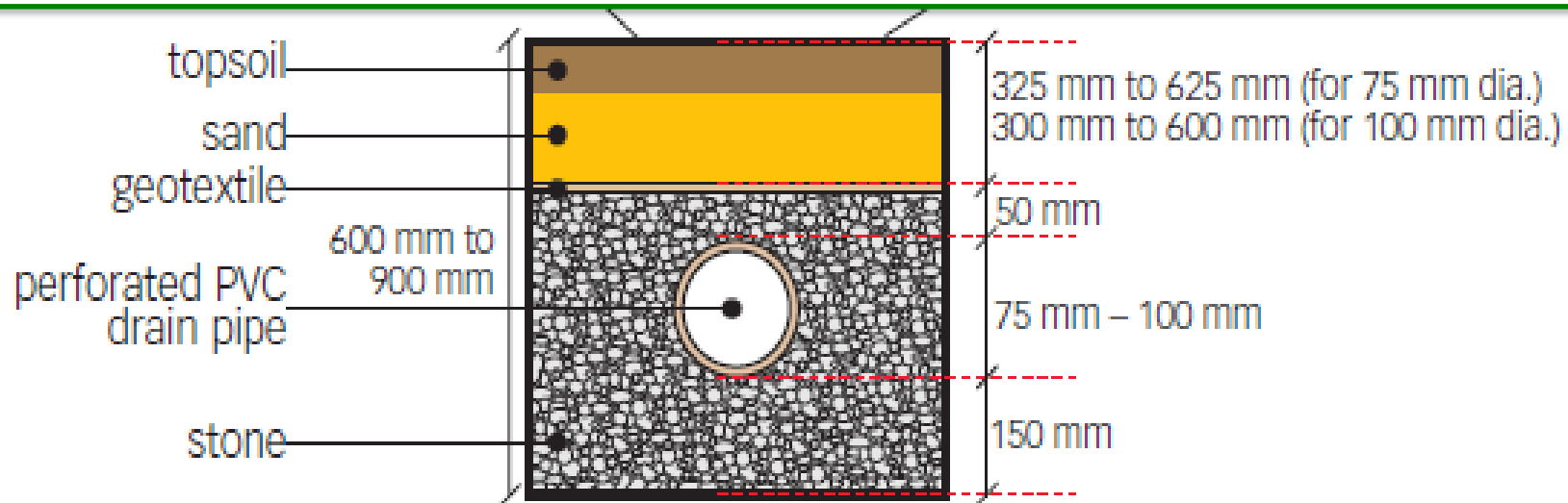
# Distribution Boxes



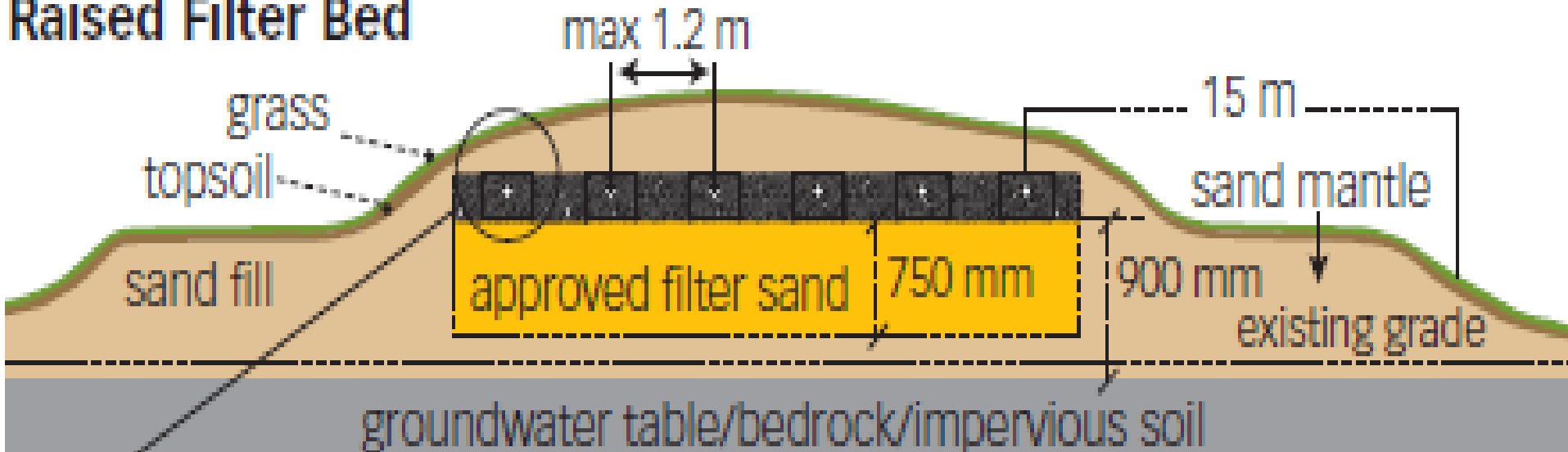
# Conventional Soil Treatment & Disposal

## Absorption Trench

End view cross-section.



## Raised Filter Bed



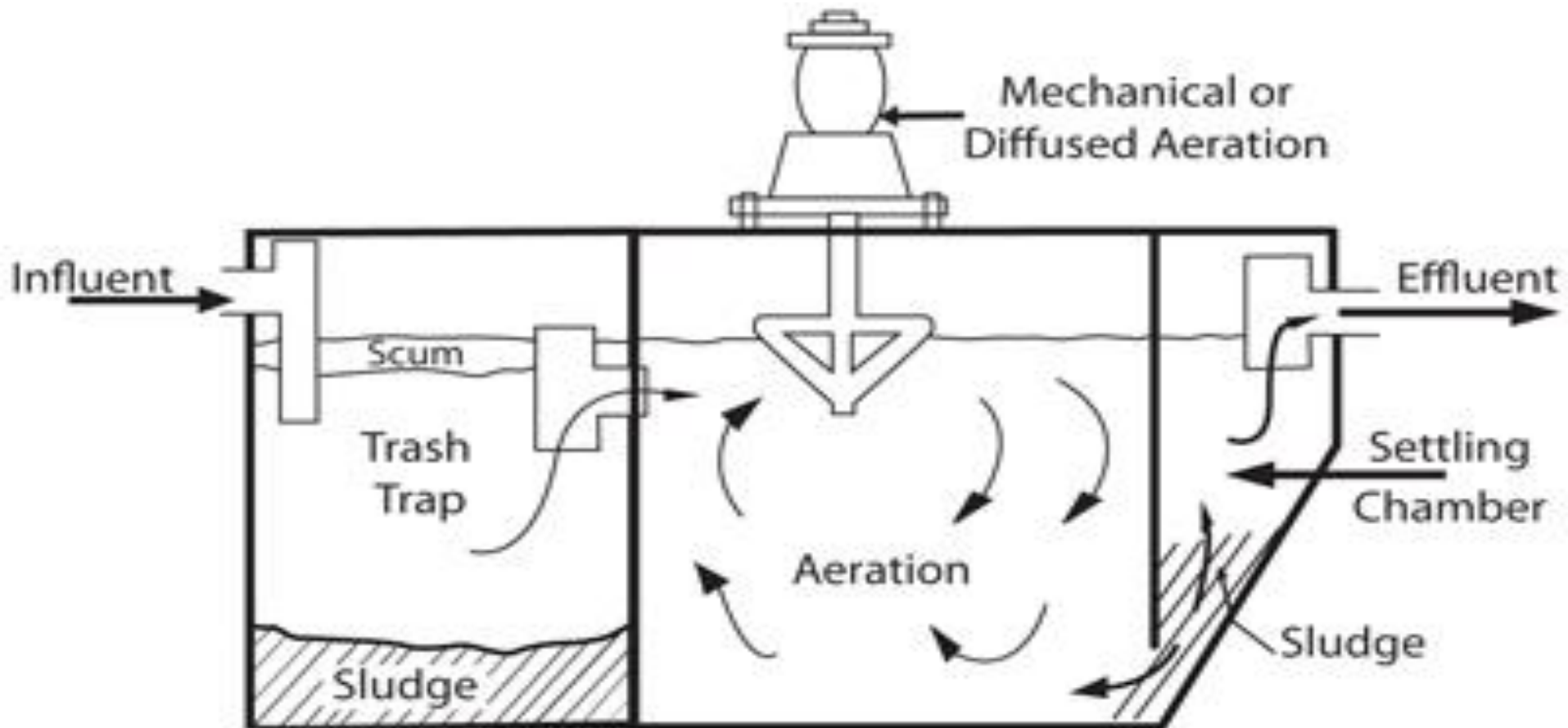
# Conventional Soil Treatment & Disposal



# Conventional Soil Treatment & Disposal



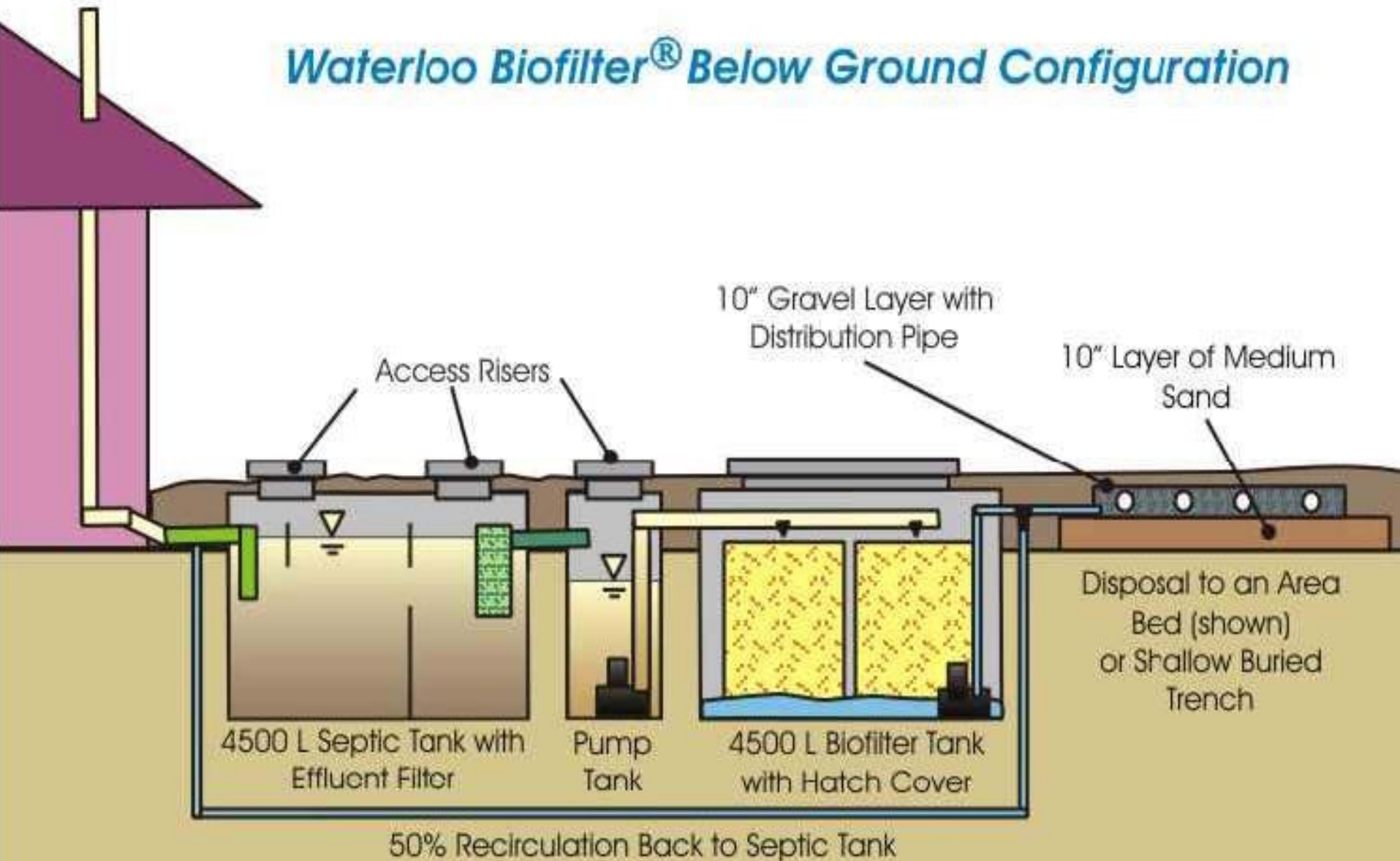
# Advanced Treatment



US EPA Manual, 1980

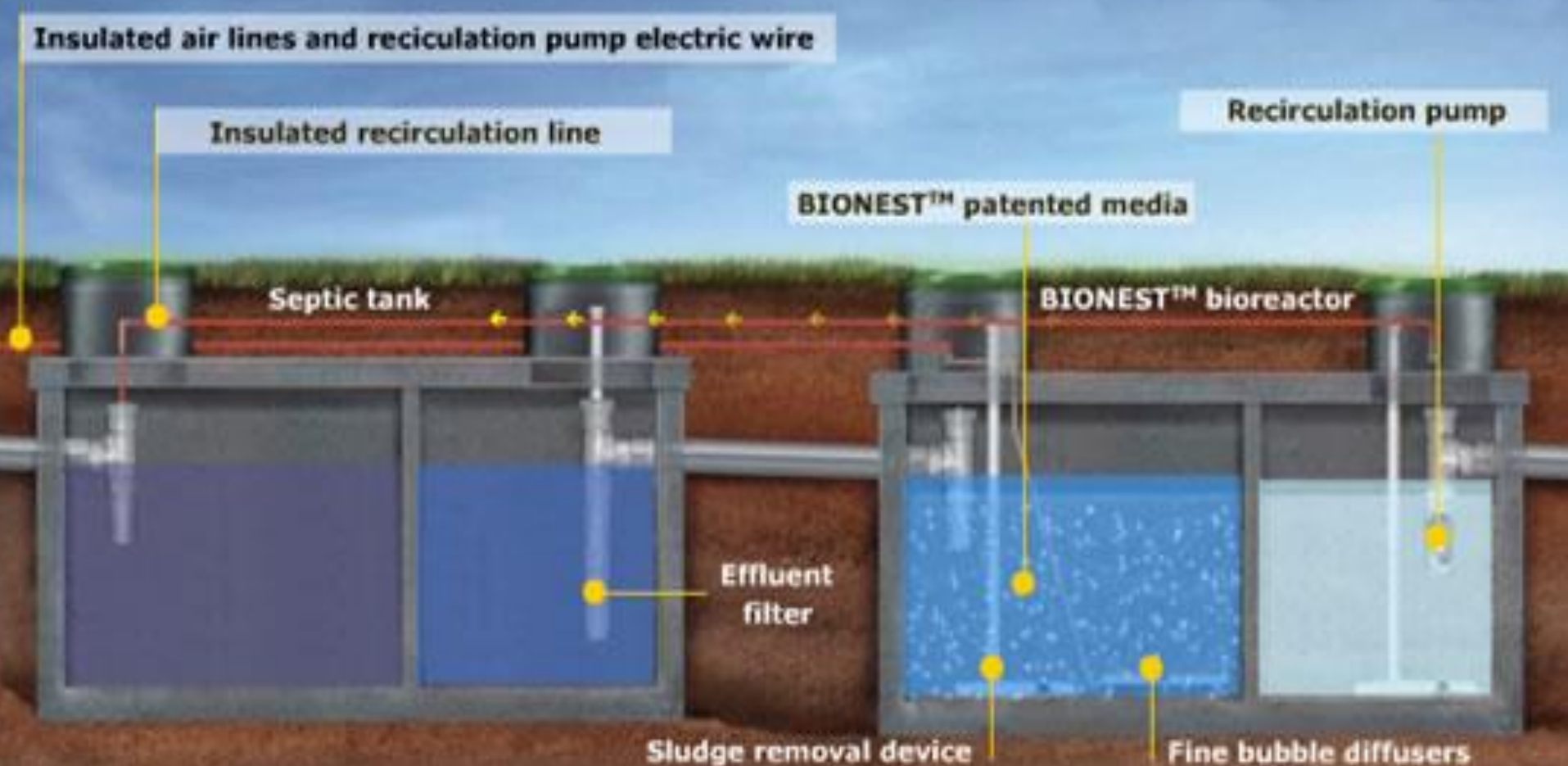
# Waterloo Biofilter

## *Waterloo Biofilter® Below Ground Configuration*



# BIONEST Treatment System

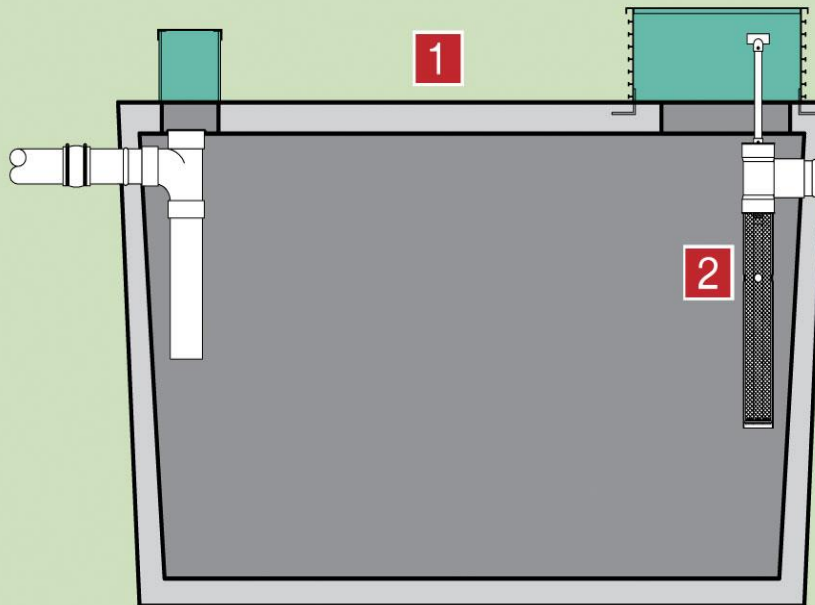
## BIONEST BIOREACTOR



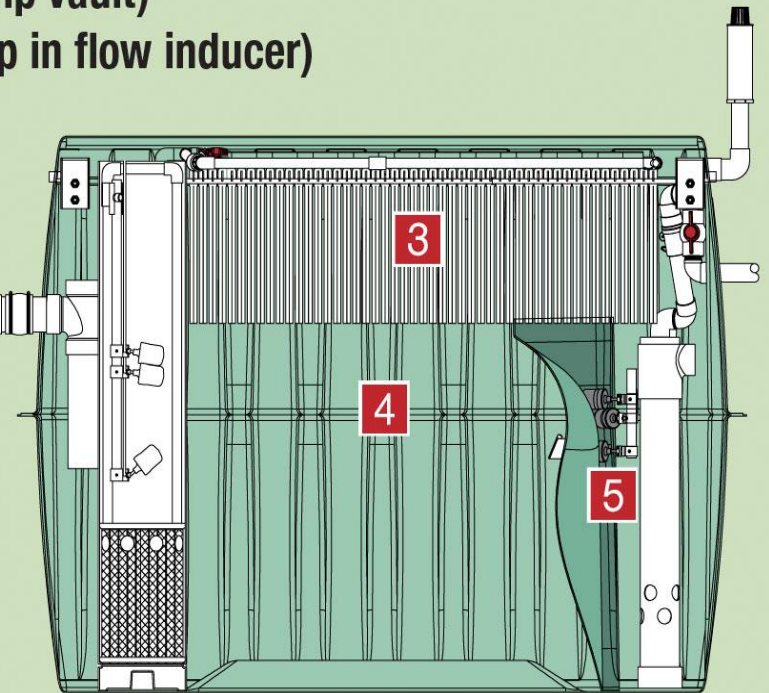
# Orenco Treatment System

The system has five main functional parts:

1. Septic tank
2. Biotube® effluent filter
3. Textile sheets
4. Recirculating section of tank (with Biotube pump vault)
5. Discharge section of tank (with discharge pump in flow inducer)



1000 gal. Primary Tank - Side View



800 gal. AX20-RT- Side View

# Dispersal Options



# Excavating A Tank Year-Round



# Getting into Septic Tanks



# Getting into Septic Tanks



# Getting into Septic Tanks



# Getting into Septic Tanks



# Getting into Septic Tanks



# Getting into Septic Tanks



# Getting into Septic Tanks



# Getting into Septic Tanks



# Corrosion of a Concrete Tank



## New Plastic Tank & Improperly Installed Discharge Baffle



## Problematic?



# Tree Encroachment



# Options for Access and Coverage?



## Options for Access and Coverage?



## Options for Access and Coverage?



# Options for Access and Coverage?



## Options for Access and Coverage?

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## Options for Access and Coverage?



## Options for Access and Coverage?

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## Options for Access and Coverage?



# Ontario Onsite Wastewater Association



Any Questions?

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Thank you!