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Constructed wetlands

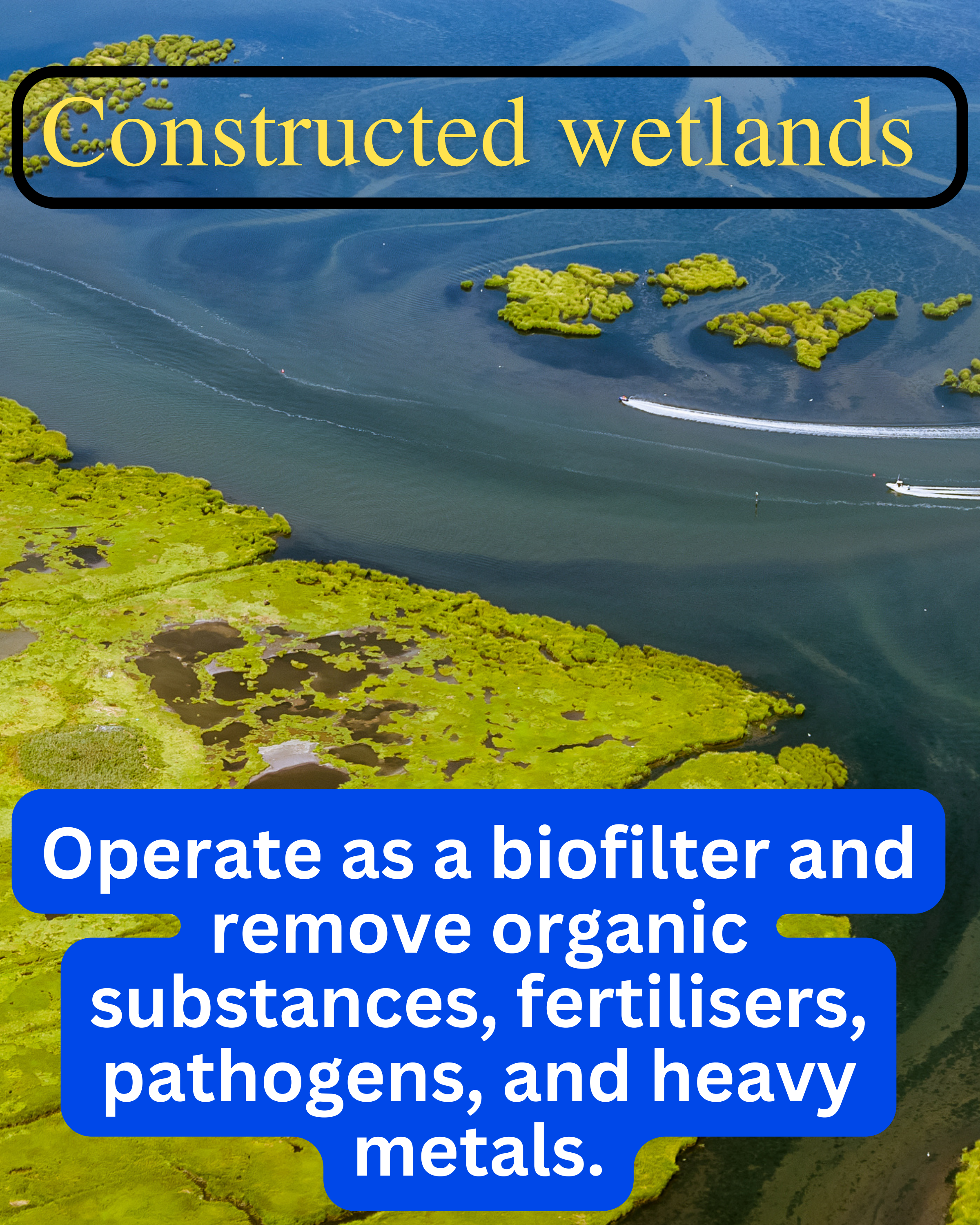




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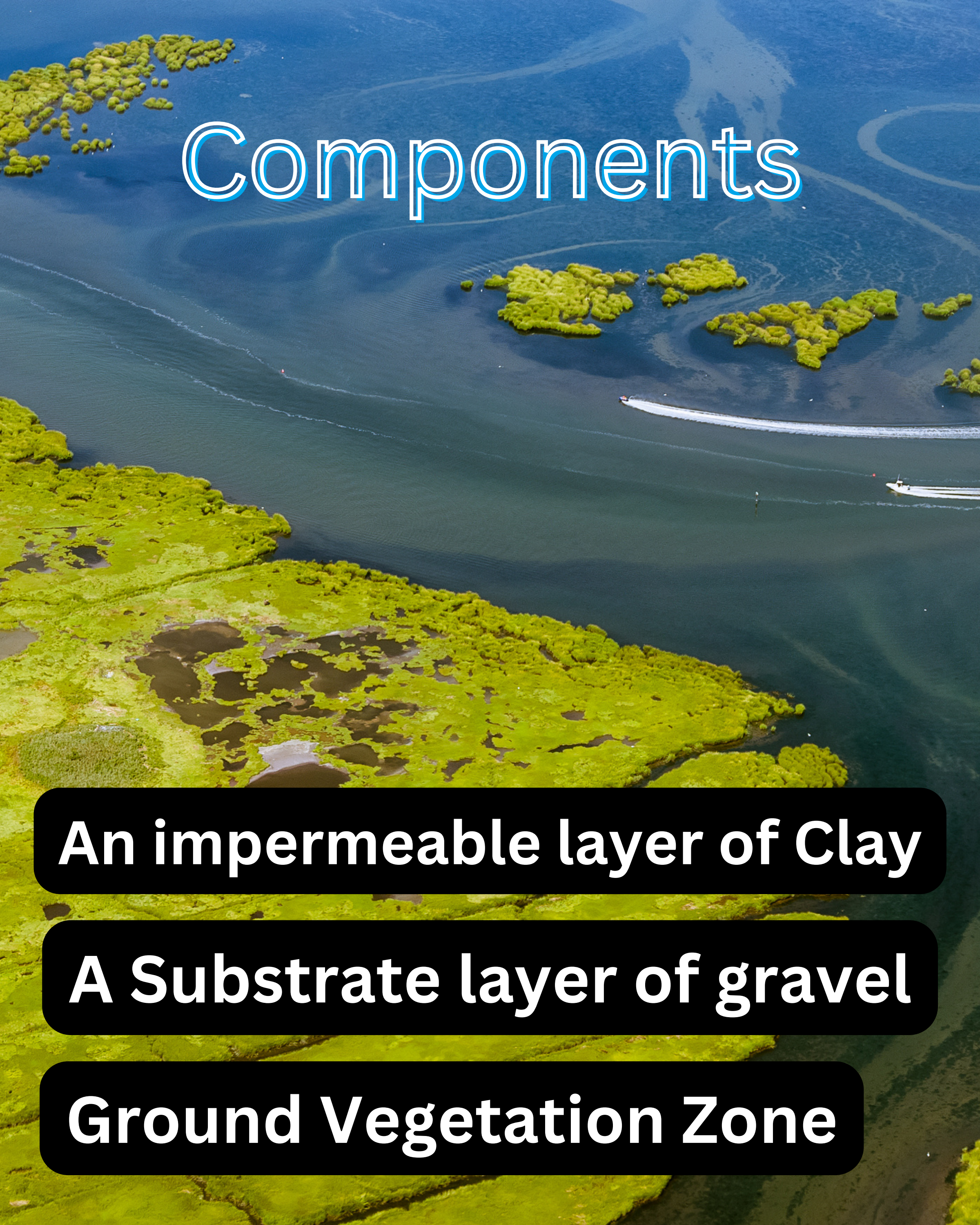
Waste water treatment systems that utilise natural processes such as plants, soil and organisms to treat wastewater, grey water



Constructed wetlands

Operate as a biofilter and
remove organic
substances, fertilisers,
pathogens, and heavy
metals.

Components

An aerial photograph of a coastal wetland system. The image shows a network of dark blue water channels winding through vibrant green marsh islands. The marsh vegetation appears dense and healthy. In the lower-left foreground, a larger, more irregularly shaped marsh area is visible, featuring several small, dark, water-filled depressions. Two small white boats are visible in the water channels, leaving white wakes behind them. The overall scene depicts a complex and productive aquatic ecosystem.

An impermeable layer of Clay

A Substrate layer of gravel

Ground Vegetation Zone

TYPES OF CONSTRUCTED WET LANDS

- **Subsurface flow constructed wetland**
- **Surface flow constructed wetland**
- **Floating treatment wetland**



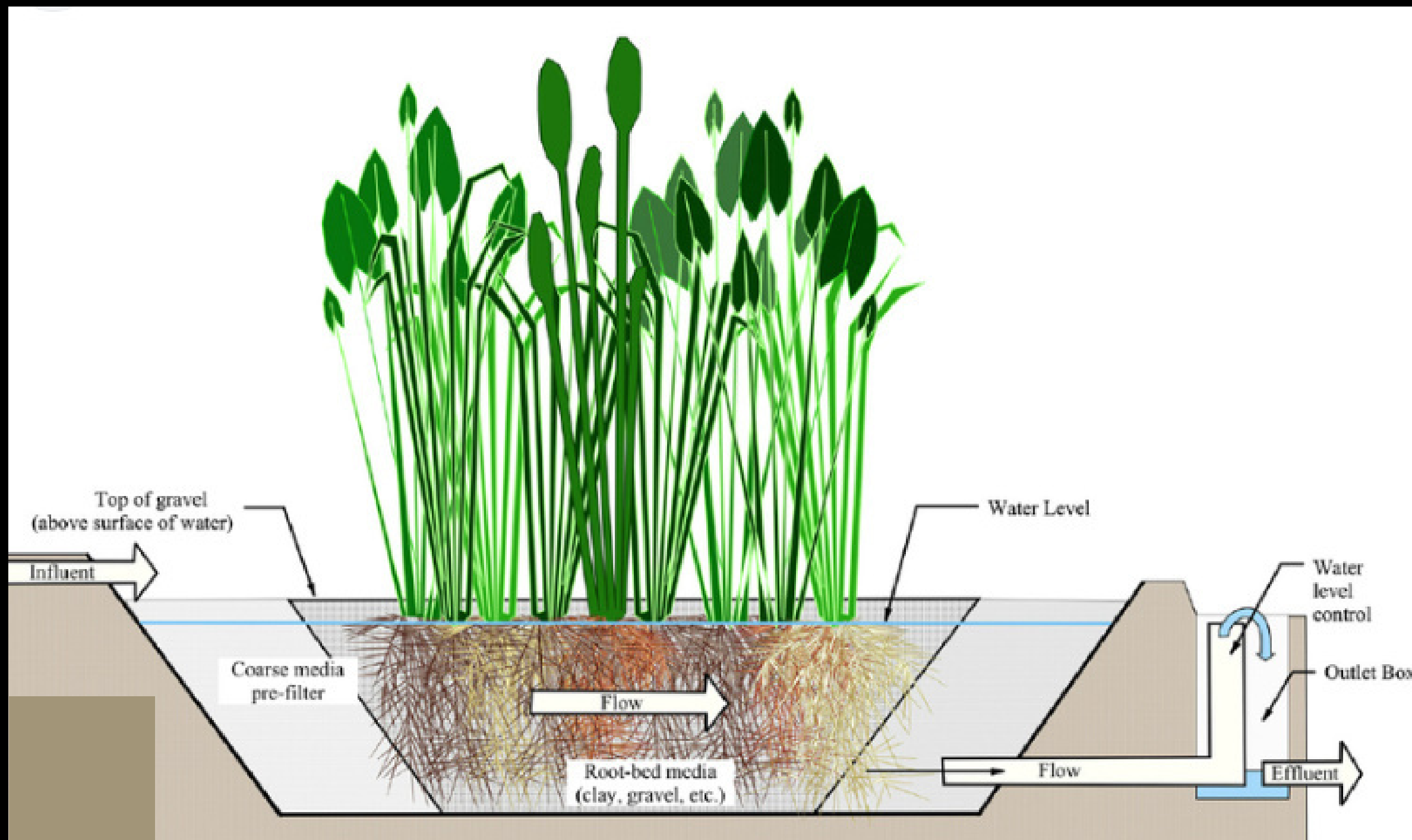
Two types of subsurface flow constructed wetlands:

- **Horizontal flow**
- **Vertical flow**



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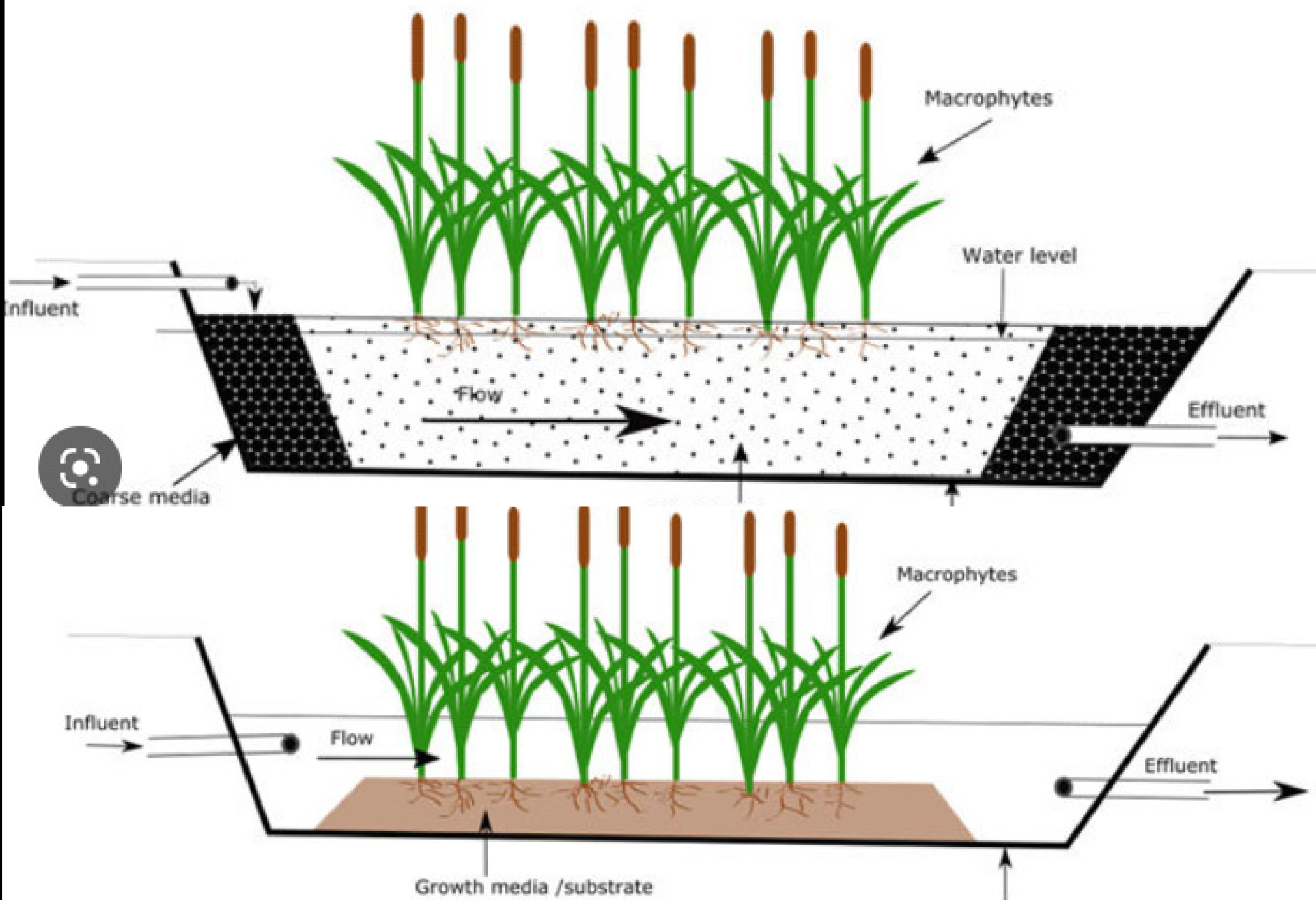
Subsurface Flow Wetlands



no water surfacing in subsurface flow constructed wetlands because wastewater flows through the roots of the plants which lies below the gravel.

Surface Flow Wetlands

Surface flow wetlands resemble wastewater treatment ponds in appearance such as “waste stabilisation ponds”



Floating treatment wetland

The floating treatment wetlands are artificial wetlands that replicate natural ones. Floating rafts support hydroponically grown plants in FTWs.



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