

MANAGING THE SOASOA WATERSHED

FLOOD CONTROL INFRASTRUCTURE



Flood Gates

Flood gates are designed to enable floodwaters to escape and prevent seawater entering.



Trash Racks

Trash Racks are designed to prevent floating and submerged debris from entering water systems while maintaining water flow.



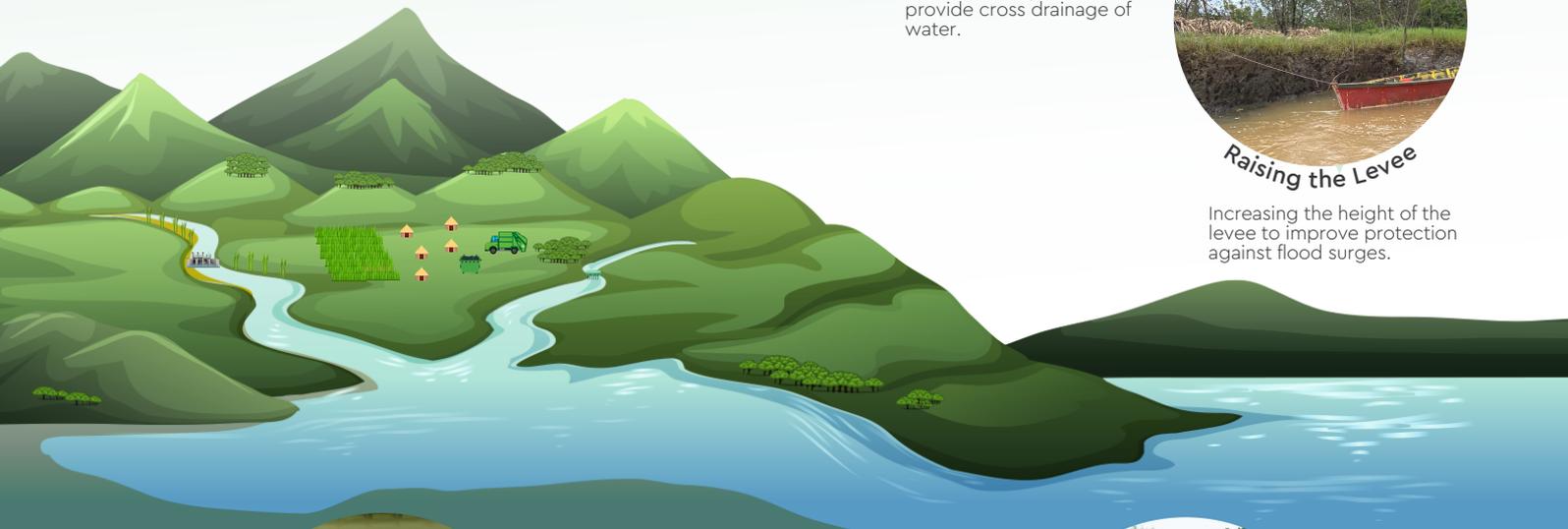
Culverts

Culverts are tunnel structures constructed under roadways to provide cross drainage of water.



Raising the Levee

Increasing the height of the levee to improve protection against flood surges.



Vetiver Grass

CONSERVATION STRATEGIES



Solid Waste Management

- Riverbank erosion is becoming a threat to communities and livelihoods of people depending on the land along these streams.
- The Vetiver System (VS) was first developed for soil and water conservation on farmlands.
- While this application still plays a vital role in agricultural lands, the vetiver plant's unique characteristics, including its tolerance to highly adverse conditions, has played a key role in the area of environmental protection and land rehabilitation.
- The incorporation of vetiver hedges as an alternative to strip cropping can be used to protect riverbanks.
- Planting it both horizontally and at right angles to the flow direction will minimise the impact of the high velocity flood flow.
- It could also be planted in rows both horizontally and diagonally to stabilize the bank by its deep root system and to reduce the high flow velocity by its top growth.
- Vetiver can provide excellent protection against flood movements up to 3m deep if planted both upstream and downstream.

- Poorly managed community waste often dumped near rivers, water catchments and estuaries can create serious health and environmental problems.
- Managing solid waste through effective community led actions can help alleviate the standard of living in communities.
- Creating community awareness about effective solid waste management practices will help maintain a sustainable community free from water contamination, diseases and flooding.

Effective community led actions include:

- Establishing a community solid waste management programme such as routine waste collection through municipal garbage trucks
- Placing rubbish bins around the community
- Following the 3R's - reduce, reuse and recycle
- Routine clean-up campaigns