

Strengthened embankments to prevent flooding

FRESH BANK Method



- Background -

Traditional design method

Overtopping destroys embankment

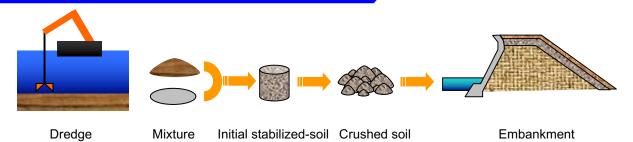
New design method

Embankments are strengthened so as not to be destroyed by overtopping.



Embankment destroyed by TSUNAMI

- Method -



- Application example -

Improves earthquake and tsunami resistance by using <u>Crushed and Stabilized Method</u>. Allows effective utilization of existing embankment.



- Laboratory test result -

Overtopping test using model embankments at Kyoto university. It proves the effectiveness of **Crushed and Stabilized Method** against overflow.

Compare: Crushed and Stabilized Method, sand, general soil



Overflow test (small size)

Overflow test (large size)