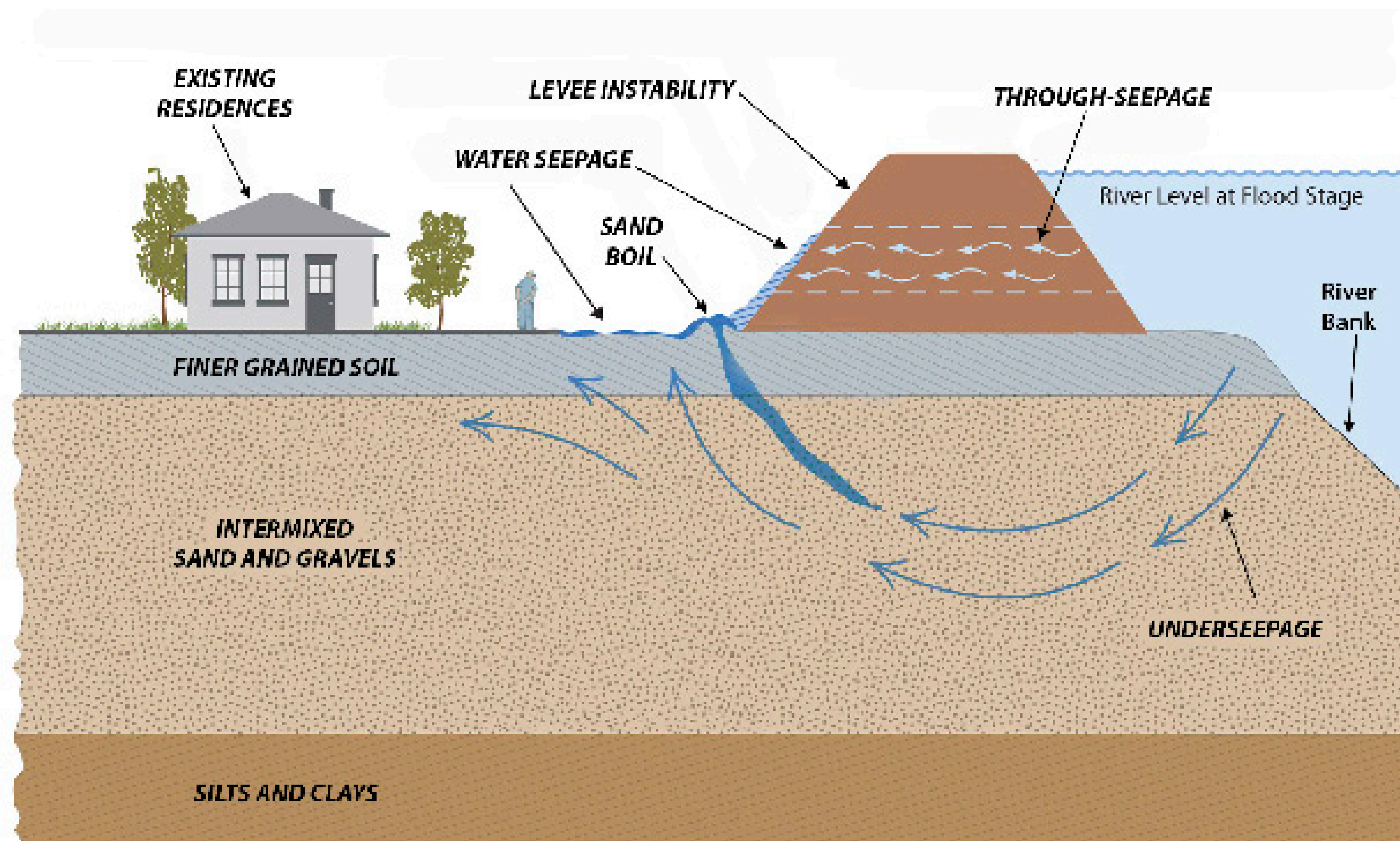


# Seepage & Stability Issues



Seepage and stability problems

## Levee Instability:

Saturated soil and sand layers may cause levee slopes to slump, or levee foundation to settle risking levee failure at flood stage.

## Levee Through-Seepage:

When the river is approaching flood stage, high water pressure at some locations causes seepage through the levee.

## Levee Underseepage:

High river levels lead to seepage through sandy and gravelly soils. High water pressure beneath the surface can emerge at the landside levee toe, causing sand boils, and can also appear at the surface up to several hundred feet landside of the levee. Sand boils could cause loss of levee foundation, and eventual collapse of levee.



Seepage problem



Levee instability problem