Types of Landfill Slope Stability Failures

- Rotational (Circular) Failures
- Translational (Block) Failures
  (most common for landfills)

Potential Failure Modes of Landfills

Slope Failure Triggers

- Excessive Leachate head build up due to rainfall or liquid injection
- Wetting of CCL/GM interface
- Wetting and shear failure of bentonite in unreinforced GCL
- Foundation failure due to removal of soil from the landfill toe
Poor Leachate Management

- Inadequate permeability of leachate collection system
- Excessive leachate injection or recirculation

Good Reference Book for Additional Information:

GEOTECHNICAL ASPECTS of LANDFILL DESIGN and CONSTRUCTION