

Damage caused by disasters to systems

Earthquakes can have severe effects, such as:

- ▶ Total or partial destruction of catchment structures, reservoirs, treatment plants, mains and distribution pipelines
- ▶ Rupture of pipelines and damage to joints
- ▶ Alterations in water quality due to landslides



Hurricanes cause various types of damage:

- ▶ Partial or total damage to buildings and facilities due to severe winds
- ▶ Rupture of pipes and damage to joints due to flash floods and landslides in areas exposed to the elements
- ▶ Damage to surface components
- ▶ Contamination of water in tanks



Floods affect systems and cause damage such as:

- ▶ Total or partial destruction of river and brook catchments
- ▶ Loss of water supply owing to changes in riverbed contours
- ▶ Rupture of exposed pipelines in the path of raging rivers
- ▶ Contamination and deterioration of basins
- ▶ Failures in electric equipment



Landslides have an overwhelming destructive effect, causing:

- ▶ The total or partial destruction of all infrastructure, particularly catchment structures and pipeline network
- ▶ Contamination of surface catchments in mountain areas



Volcanic eruptions cause predicaments such as:

- ▶ The total destruction of system components in the path of lava flows
- ▶ The obstruction of catchment works, silt basins, pipes, flocculators and filters due to ash
- ▶ Alterations in the quality of water sources due to ash fall

