



CHALMERS

Kandidatarbete

Examenskod ACEX10



After the slide. from ejatlas.org

The Vajont slide: origins, prediction and measures

The Vajont Dam, one of the tallest in the world, was completed in 1959 in North Italy. In October 1963, during initial filling, a massive landslide caused a huge tsunami in the lake in which 50 million cubic meters of water overtopped the dam in a wave 250 m. high, leading to the complete destruction of several villages and towns, and 1,910 deaths. It has been extensively argued, that the disaster could have been avoided with the correct site investigation, consideration of the geology and monitoring.

Explain the origins of the failure, including the mechanism and the effect of the initial filling. Make a list of and describe the actions that should have been taken in this direction. List and justify the warning signs that have been ignored. Compare the planning and operation to modern standards and suggest a line of action that would have prevented the disaster.

Suggested literature:

- B.H.G. Brady, E.T. Brown: Rock Mechanics for underground mining
- J.A. Hudson, J.P. Harrison: Engineering Rock Mechanics, an introduction to the principles

Målgrupp

Samhällsbyggnadsteknik

Grupstorlek

3-6

Speciella förkunskaper

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Kan projektet dubleras?

Ja