

# ParaDrain™ - Case History



## Slope Stabilization After Failure Wan Li, Taipei - Taiwan ROC

### Profile

ParaDrain™ grade use: ParaDrain™ 100/15  
Client: Taipei County Government  
Design: Johnson Engineering Co. Ltd.  
Contractor: Fu-Yi Construction Co. Ltd.



Every year Taiwan suffers much slope instability during the typhoon season. Much of the country is hilly and mountainous and the natural soils are characterized by high silty clay content. Vegetation grows rapidly but is often incapable of preventing slope failures during the periods of heavy typhoon rainfall. These slope failures result in road closures which are disruptive to the life and economy of the country. Regular seismic events exacerbate the problem.

Such a major event occurred in 1999 resulting in many slope and other failures which caused significant disruption and loss of life. One such failure occurred on a hill road at Wan Li near Taipei, capital of Taiwan.

During the typhoon season a build up of pore water pressure in a section of slope on the uphill side of the single carriageway road coupled with generally poor drainage caused a collapse of the slope and consequent closure of the road. The technique of soil reinforcement using ParaGrid™ is a very common and popular means of effecting slope repairs in Taiwan.



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