

**Annual Geological Conference 1997***Abstracts of Posters***The analysis on the cause of the slope failures and debris fluid flows in Penang Island which happened on 18th September, 1995****GOH, S.H. AND YEAP, E.B.**Department of Geology  
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Widespread slope failures reported in the newspapers (*The Star*, 19 and 20-9-95 and *The Star*, 23-9-1995) were found to have occurred along cut slopes of a number of major roads, the Penang Hill railway route and the Penang Hill jeep track in Penang Island. The slope stability parameters for the scars which include slope angles before and after failure, slope material, slope orientation, size of scars and type of failure were determined. The sizes of the scars are classified arbitrarily into small, medium and large which has the surface area of  $< 36\text{m}^2$ ,  $36\text{--}80\text{ m}^2$  and  $> 80\text{ m}^2$  respectively and only scars of bigger than  $1\text{ m} \times 1\text{ m}$  (width x height) were investigated. The locations of the failure scars were mapped. Representative soil samples were collected to determine the properties of the soil material which were related to the failures.

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