

## **GEOLOGY AND SOILS ALONG PARTS OF THE NORTH-SOUTH HIGHWAY, PENINSULAR MALAYSIA**

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This paper briefly outlines the geology traversed by the North-South Highway from Gurun to Johor Bahru. The highway is divided into seven segments as follows:—

- i. Gurun – Butterworth
- ii. Butterworth – Changkat Jering
- iii. Ipoh – Tanjung Malim
- iv. Tanjung Malim – Kuala Lumpur
- v. New Klang Valley Expressway
- vi. Seremban – Air Hitam, and
- vii. Air Hitam – Johor Bahru

The route geology of each segment is presented, based on the geological map of Peninsular Malaysia (Geological Survey of Malaysia, 1973) and borehole data. Based on the geology, attempts have also been made to indicate possible locations for quarry sites (for rock aggregates) and borrow pits (for earth fills), general excavation requirements (blasting versus ripping, etc.) and problematical soils and rocks.

In addition, a discussion of the various types of soil deposits along the highway is also included. The discussion on the soil deposits is based on the extraction, compilation and interpretation of borehole data from the numerous soil investigation reports carried out along the highway. Altogether, about 650 borehole logs were examined to extract and compile the data presented. Some limited results of XRD analyses for clay minerals are also given.