

Geological Society of Malaysia - Annual Geological Conference 1990

QUATERNARY GEOLOGICAL MAPPING OF THE KOTA SAMARAHAN SUB-REGIONAL CENTRE STUDY AREA, SARAWAK

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Quaternary geological mapping was carried out in the Kota Samarahan area to obtain geologic data for land-use planning in the Kota Samarahan Sub-regional Centre study area.

The whole study area is covered by Quaternary soft sediments. Two sedimentary facies: floodplain deposits and paludal deposits are exposed in the area. Both deposits are deposited on the deltaic/estuarine deposits and residual soil/bedrock.

The paludal deposits are not suitable for engineering works and severe problems are expected if they are to be used as foundation level for construction. The floodplain deposits is suitable for engineering works if sufficient ground improvement has been done.

Other geologic constraints in the study area include bank erosion, lack of construction materials and deep foundation level.