

PAPER ID 04

## Geology and stream sediment geochemistry of Sungai Bahoi – Charok Jawa area, Ulu Muda Forest Reserve, Kedah

FAKHRUDDIN AFIF FAUZI\*, HAMDAN ARIFFIN

Malaysia Department of Mineral and Geoscience Malaysia, Kedah / Perlis / Pulau Pinang,  
Jalan Perak Off Jalan Putra, 05150 Alor Setar, Kedah, Malaysia

\* Corresponding author email address: fakhruddin.fauzi@gmail.com

**Abstract:** A study on geology and geochemistry of Sungai Bahoi – Charok Jawa Area in Kedah has been conducted to update the uncovered portion of geological map and to determine the distributions of heavy elements based on stream sediment samples. The study area generally consists of Late Triassic igneous intrusion and sedimentary rocks mainly of Carboniferous Kubang Pasu Formation and minor Silurian to Devonian Kroh Formation. The conducted field mapping has successfully discovered a band of brecciated phyllites along parts of granite – phyllite contact zone and confirmed the occurrences of cave-contained limestone hill in the study area. Geochemical results and interpretations indicate the occurrences of 6 multielement anomaly areas containing mostly Sn as the main constituent throughout the study area. Further studies on geoheritage values of the limestone hill and mineralization pattern of tin in the study area are highly recommended.

**Keywords:** Geoheritage, geochemistry, tin, limestone