Baseflow study of Sungai Chuau and Sungai Bisa, Putrajaya Wetland

ISMAIL YUSOFF[1], ABD. HADI ABD. RAHMAN[2], AHMAD FARID ABU BAKAR[1] & MOHD. AZAMIE ABD. GHANI[1]

[1]Geology Department, University of Malaya, 50603 Kuala Lumpur
[2]School of Physics, Universiti Sains Malaysia, Pulau Pinang

The groundwater component in the form of baseflow in Sg. Chuau and Sg. Bisa sub-catchment within Putrajaya wetlands during the low flow period was studied. Field investigations show that the alluvium deposits along Sg. Chuau is composed of more sand and gravel, thus increasing its hydraulic conductivity and groundwater discharge. Sg. Chuau could be classified as a baseflow river and the groundwater component maintains its flow during any dry period. The existence of this condition would guarantee stream flow and maintenance of the wetland ecosystem in the upper part of Putrajaya wetlands during long dry periods. Sg. Bisa, on the other hand is not a baseflow river and could easily dry up.