

# **PERGESERAN AS SUNGAI BARITO DI KOTA BUNTOK KALIMANTAN TENGAH**

**Sudirman Napitupulu**  
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Telah dipertahankan di depan Dewan Penguji  
Pada tanggal 28 Mei 2004

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## **ABSTRACT**

The handling of river curve on the dismemberment of Katingan River in Kasongan, Central Kalimantan in 1994 with shortcut, 1995 with groyne, and 2002 with gabion at the same location did not meet the plan age. It is alarming that such a case would happen on the dismemberment of the Barito River in the Buntok Town of Central Kalimantan (the location of the study). The bank scour and meander formation, natural changes of the river in the location of research study, have become serious problem of the settlement in Buntok Town.

The conducted handling (In September 2003) was the hydraulics structure of sheet pile + gabion. How are the annual land formation and water surface height graph? When does the water surface height result of a scour of bank and how to stop the scour (movement of river axis)? What will the type of construction optimally protect from scour of bank? How is the age of the sheet pile + gabion plan in the location of research study? The land formation in the location of research study is composed by loose sand of silt inset, clay, lignit, limonit and quartz sandstone. The scour bank is developed on the non-cohesive land when the water surface begins to exceed 2m' in height, and 12m' on the cohesive land.

Among the alternative handling of construction, the groyne-impermeable and sheet pile are technically adequate to restrain the rate of bank scour. In addition, that optimally to be the two-pile sheet pile. The sheet pile + gabion tend not stable because of the inaccurate field data.

Key word: Handling, Scour of bank, sheet pile.