KAJIAN PERBAIKAN MUARA SUNGAI COKROYASAN
KABUPATEN PURWOREJO PROVINSI JAWA TENGAH

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ABSTRACT

Cokroyasan River is experiencing problems of stricture of estuary. The condition resulted
from sediment longshore transport brought by waving sea to estuary. Riskiest impact is at the time
of beginning rains season causing flooding in upstream area of Cokroyasan and Delangu River. On
the basis of that problem, required a study to contend the problems of flooding happened.

This research by doing simulation at existing condition and handling condition. Handling
condition is done with development of jetty at estuary mouth and making of levee at river was
happened overflow. Simulation is done by using Software HEC-RAS 4.0

Result of research indicates that with development of jetty and levee can prevent flooding
overflow happened in upstream area. Result of simulation indicates that sand spit which has
collected can be run-out after happened 3 times flooding with 1 Year return period of discharge and
reduce elevation flooding to 1 m. While making of levee at Delangu River with elevation between
0.5 - 1 m can prevent flooding happened with 10 Years and 20 Years return period of discharge.

Keyword: Estuary stricture, Flood, Simulation, Contend.