

KAJIAN ANGKUTAN SEDIMEN UNTUK PENGENDALIAN KERUSAKAN SUNGAI UNDA

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Telah dipertahankan di depan Dewan Penguji
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ABSTRACT

Unda River is the one among the river that has an upstream reach originate from the south slope of Mount Agung and has potential sand mining, which been benefited for many years as a material to fulfil the need of physical structure building. Along with the rapid development of physical structure, therefore the need of sand mining increases as well day by day, this causes of sand mining becomes more popular and uncontrolled. And caused a damage of check dam CD Ud4, check dam Jumpai and degradation of the riverbed in are the fact of real problems at of Unda River.

For knowing that kind of phenomena, it need a research about volume of sediment transport and it relationship to the volume of sand mining on the downstream of Unda River by using equation that derive from Sabo Technical Centre so it will compare the value of sediment transport that flow through the check dam and the sand mining. From the research it knew that the average value of sediment transport rate is 785,897.522 m³ /year and the volume of sand mining is 1,148,000 m³ /year. If the both values is compare, the sand mining has a 362,102.478 m³ more than a sediment supply.

Because of that excess in riverbed degradation has occurred with a variation value, such as average with a 5,53 m of degradation. Bywatching this condition so it need a more complex countermeasure so it can't handle the problem.

Keyword : Sediment Transport, Sand Mining, Degradation