

**ANALISA Pb DI SEDIMEN DAN HUBUNGANNYA
DENGAN KEANEKARAGAMAN DAN KUANTITAS MAKROBENTOS PADA
KOLAM PELABUHAN TANJUNG EMAS SEMARANG**

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ABSTRACT

The increase of industrial amount and commerce will add burden polutan into territorial water port. Some of the industry use heavy metal in the production process and traffic of commerce such as boat for loading and unloading and also fishing boat enabling to increase the heavy metal content of Pb coming from used fuel (Salomon et al., 1984 in Takarina dkk, 2001). Pursuant to heavy metal monitoring by some research obtained evidence that Semarang coastal territorial water have contaminated by heavy metal, although concentration of highest heavy metal there at sediment, and then be followed by biota and hereinafter at water. Sediment have important role as place accomodating of polutan or heavy metal thrown to enviroentment.

The quality of territorial water of Tanjung Emas water port pool pursuant to index of variety makrobenthos in a condition the variety is medium. Mean of An Index To Variety 2.87. There are relation between Concentration of Pb in sediment with Index of variety, the relation of the two variable is inclusive of strenght with $r = 0.918$. Obstetrical increase of Pb in sediment as much 1 mg/kg joined by the degradation of index equal to 0.367 with equation $y = 0.566 - 0.367x$. Obstetrical increase of Pb in sediment as much 1 mg/kg joined by degradation of amount makrobenthos equal to 65 individu/kg with equation $y = 65 - 65x$. Excelsior of Concentration Pb, sum up makrobenthos progressively lower.