

ABSTRACT

HEAVY METAL (Pb AND Cd) CONTENT CORRELATION OF RAJUNGAN (*Portunus pelagicus*) AND COASTAL SEDIMENT WEST DUMAI, RIAU

By

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Research on heavy metal (Pb and Cd) content correlation of rajungan and sediment has been done in laboratory of material analyse of the engineering faculty, University of Riau, and laboratory of material testing of the settlement and facility authorization, Province of Riau in Mei 05th to Nov 05th. This research aims to understand heavy metals (Pb and Cd) correlation of rajungan and sediment. The applied method was survival method, throughout Pb and Cd measurement by using Atomic Absorption Spectrophotometer (AAS).

Analyse yield demonstrated Plumbum contents range at station I of rajungan flesh was 3.437 PPM, sediment 9.753 PPM, through correlation value 0.42. At station II of rajungan flesh was 2.670 PPM, sediment 8.193 PPM through correlation value -0.19, meanwhile at station III of rajungan flesh 3.587 PPM, sediment 7.567 PPM through correlation value 0.19. Cadmium content range at station I of rajungan flesh was 3.899 PPM, sediment 5.546 PPM through correlation value 0.27. At station II of rajungan flesh was 4.482 PPM, sediment 5.416 PPM through correlation value 0.62, meanwhile at station III of rajungan flesh was 4.743 PPM, sediment 7.562 PPM through correlation -0.10. No correlation of heavy metal (Pb and Cd) content of rajungan and sediment.

Key words : Correlation, Heavy metals (Pb and Cd), *Portunus pelagicus*, sediment.

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