DETERMINATION OF SEDIMENT MOVEMENT AROUND MERANG COASTLINE

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DETERMINATION OF SEDIMENT MOVEMENT AROUND MERANG COASTLINE

By Ahmad Taufiq Bin Murad

Research report submitted in partial fulfillment of the requirements for the degree of Bachelor of Science (Marine Science)

Department of Marine Science Faculty of Maritime Study And Marine Science UNIVERSITY MALAYSIA TERENGGANU 2008

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PENGAKUAN DAN PENGESAHAN LAPORAN PROJEK PENYELIDIKAN I DAN II

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"This thesis was dedicated to my beloved mum.."

ABSTRACT

A study to determine the sediment movement around Merang coastline was conducted on August 2007 to February 2008. The samples were collected on August, November 2007 and February 2008. This study was done to determine the direction of sediment movement along the coast and also to determine the sedimentological characteristic. Furthermore, the changed of beach profile also has been plotted. The sediment was carried out from eight stations located at the beach area which included high tide, middle tide, low tide and swash zone. Two of the stations were located at the river mouth. The sediment distribution resulted from this study shows the sediment can be categorized as moderately well sorted, moderately sorted and poorly sorted. The sediment also very negatively skewed, negatively skewed, positiveely skewed and symmetrical skewed. Also, the sediment was extremely leptokurtic and leptokurtic. The beach profile at each beach station was changed due to the sampling time. The direction of Net shore drift was deternimed by using some indicator such as the average of mean and sorting value at mid tide at each beach station, beach width and beach slope. Maximum beach width recorded was 28.67 meter. The average of beach slope at each station was between 5.42° and 15.32°.