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Oil contamination along the beach of Batu Rakit, Kuala Terengganu / Chin Keong Fatt.

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PERPUSTAKAAN KOLEJ UNIVERSITI SAINS & TEKNOLOGI MALAYSIA (KUSTEM)			
Pengarang	No. Panggilan		
Judul	Tarikh	Waktu Pemulangan	Nombor Ahli
CHIN KEONG FATT	28/3/07		uu w 298
Oil contamination along the beach of Batu Rakit K.T.			

LP 1044

17/2/10

## ACKNOWLEDGEMENTS

First and always, my sincere gratitude and thanks to my supervisor, Professor Dr. Law Ah Theem for his guidance and advice in this study.

I'm very grateful to my beloved parents for their love and support during my education years. One special appreciation also goes out to a very special person out there who had always give me support and teaching me a lots of thing.

I'm also very thankful to all the lab assistant contributed to this study for their help and guidance. My appreciation also to Hii, Jong, Julie and Mok for their helps and support. Not forgetting also to my friends. Thank you!

PUSAT PEMBELAJARAN DIGITAL SULTANAH NUR ZAHIRAH

## ABSTRAK

Kajian tentang taburan hidrokarbon petroleum di dalam air dan pasir serta bebola tar di pantai Batu Rakit, KUSTEM and Teluk Ketapang. Projek ini telah dijalankan pada bulan Julai, September, November 2001 and Januari 2001. Empat kali penyampelan (11/7/2001, 14/9/2001, 25/11/2001 dan 4/1/2002) telah dijalankan di kesemua 3 lokasi yang dipilih.

Min keseluruhan tahap hidrokarbon yang dikesan dalam sample air dari permukaan air laut adalah 26.27 – 492.22 ppb. Analisa statistik menunjukkan bahawa tiada perbezaan bererti ( $p>0.05$ ) tahap hidrokarbon dalam taburan menegak air sepanjang penyampelan. Analisa statistik juga menunjukkan tiada perbezaan bererti ( $p>0.05$ ) tahap hidrokarbon dalam air pada setiap kali penyampelan. Sementara itu, julat keseluruhan kandungan hidrokarbon di dalam sedimen adalah di antara 1.011 – 234.189 mg/kg pasir kering. Keputusan daripada kajian menunjukkan bahawa pasir di Pantai Batu Rakit, KUSTEM and Teluk Ketapang adalah sedikit tercemar oleh hidrokarbon.

## ABSTRACT

The distribution of petroleum hydrocarbon in water and sand and also tarballs of Pantai Batu Rakit, KUSTEM and Teluk Ketapang. This study were done during the month of July, September, November 2001 and January 2002. 4 sampling trips (11/7/2001, 14/9/2001, 25/11/2001 and 4/1/2002) were conducted all of the 3 sampling stations.

The overall mean of hydrocarbon level detected in the water samples from seawater was 26.27 – 492.22 ppb. Statistical analysis indicated that there was no significant difference ( $p>0.05$ ) of hydrocarbon level in vertical distribution of water throughout the samplings. Statistical analysis also revealed that there was no significant difference ( $p>0.05$ ) of hydrocarbon level in water during each sampling. Meanwhile, the overall range of hydrocarbon content in sand was between 1.011 – 234.189 mg/kg dry sand. Result from the study indicated that the sand in all sampling stations was slightly polluted with hydrocarbon.