

MEIOBENTHOS IN SETIU WETLAND MANGROVE FOREST  
TERENGGANU

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MEIOBENTHOS IN SETIU WETLAND MANGROVE FOREST  
TERENGGANU

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This thesis is submitted in partial fulfillment of the requirement  
for the degree of Bachelor of Science Biology (Biological Sciences)

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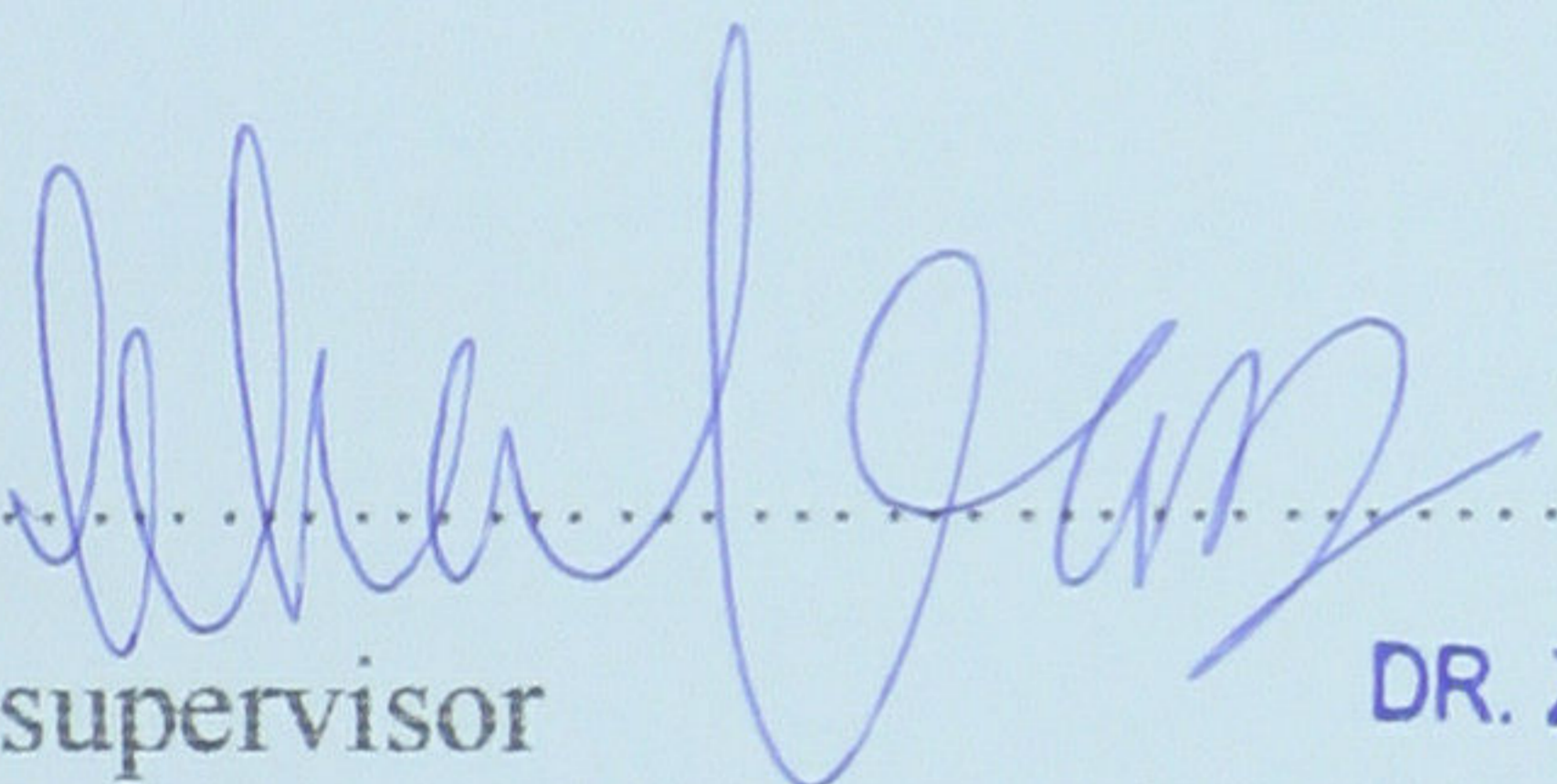
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## Approval and Certification Form

I certified that the report of this final year project entitled "Meiobenthos in Setiu Lagoon Mangrove Forest Terengganu" by LING KIENG KWONG, Matric. No. UK4056 has been examined and all the corrections recommended by examiners have been done. This report is submitted in partial fulfillment of the requirement for the degree of Bachelor of Science (Biological Sciences), Faculty of Science and Technology, Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM).

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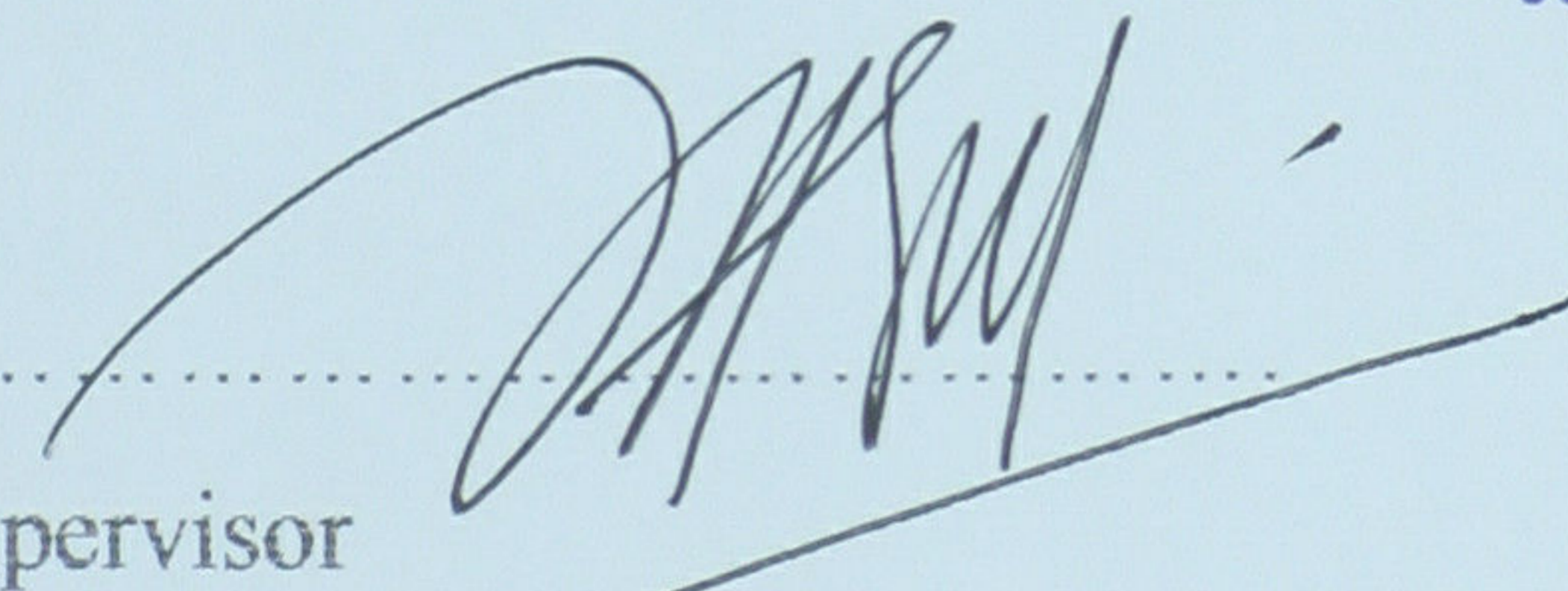
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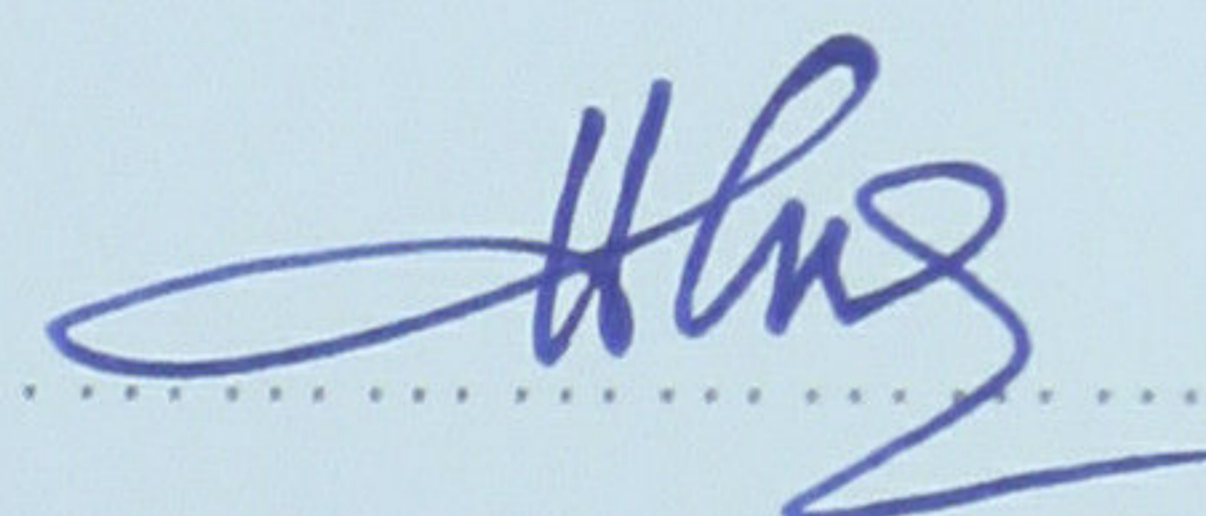
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## Abstract

The aim of this study was to survey the meiobenthos in the mangrove forest of Setiu Wetland, Terengganu. The meiobenthos densities in Setiu lagoon ranged from 4,797 to 18,697 individual / m<sup>2</sup> (during three sampling sessions). Meiobenthos taxa consisted of Nematoda, Harpacticoid, Polychaeta, Ostracoda, Oligochaeta, Tardigrada, Acari, Isopoda and Cladocera. Nematodes were the most abundant taxa followed by the Harpacticoida. The highest richness index (S=9) was found at site B (far away from the aquaculture and fisheries activities) during the third sampling session. The Setiu lagoon muddy substrates support high population densities of meiobenthos. The particle sizes (sedimentary factor) recorded in the study showed a strong relationship with the meiobenthos density.

PERPUSTAKAAN SULTANAH NUR ZAHIRAH

## Abstrak

Kajian ke atas kedominan dan kelimpahan spesies meiobentos telah dijalankan di kawasan paya bakau lagun Setiu, Terengganu. Densiti meiobentos di lagun Setiu adalah di antara 4,797 hingga 18,697 individu / m<sup>2</sup> (untuk ketiga-tiga persampelan). Terdapat 9 taxa meiobentos yang dijumpai di lagun Setiu termasuk Nematoda, Harpacticoid, Polychaeta, Ostracoda, Oligochaeta, Tardigrada, Acari, Isopoda dan Cladocera. Nematoda merupakan taxa meiobentos yang paling dominan dan diikuti oleh Harpacticoida. Didapati bahawa kawasan B (jauh dari aktiviti akuakultur dan perikanan) mencapai Indeks kekayaan S' (S=9) tertinggi semasa persampelan ketiga. Substrak lumpur lagun Setiu dapat menakung densiti populasi meiobentos yang tinggi. Min saiz partikel yang direkodkan dalam kajian ini menunjukkan hubungan yang ketara dengan densiti meiobentos.