Abstract

The aim of this study was to determine the effects of shrimp farms sewage on the diversity and density macrobenthic communities of Delvar coast (Bushehr Province). For this purpose, 8 months, samples of sediments beach were collected (6 stations and 3 replicates per station) by van veen Grab Sampler (15 \times 15 cm) during the culturing period (May to October and April and November as control month). Sediments collected and fixed in 4% formalin, then packaging and labeling of specimens for the isolation, identification and enumeration were transported to the laboratory. Physical and chemical properties of water including: salinity, pH and temperature were measured. Also grain size of bottom sediments, total organic matter (TOM) sediments were measured. The results show that 14 families in 7 orders indicated 5 class were identified. Also according to Shannon-Wiener index station of five had highest diversity (2/74 \pm 0/23) and station one had lowest diversity (1/73 \pm 0/42). Maximum and minimum density of benthic organisms were recorded in April and July, respectively. The total density of benthic was calculated 15490± 581 per square meter.

Key words: Macrobenthic communities, Shrimp farms sewage, Delvar coast, Bushehr Province



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Effect of shrimp farming sewage on the diversity and density of Macrobenthic communities in Delvar coast (Bushehr Province)

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