ABSTRACT

THE LAND COMPATIBILITY ANALYSIS OF THE WATER BODIES IN PASARAN ISLANDS, LAMPUNG FOR ASIAN GREEN MUSSEL (*Perna viridis*) CULTURE

By

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Asian green mussel is one of the favorite marine fisheries commodity. It culture in Lampung Province has been established around the Bay of Lampung especially in Ringgung and Pasaran Island. The land compatibility analysis of Pasaran Islands water for asian green mussel (*Perna viridis*) culture could be observed from the phisical, chemical, and biological factors and accumulated with a point system. The purpose of this study was to determine the compatibility of the waters for asian green mussel culture by comparing the supporting parameters in 5 stations around the Pasaran Islands. The measurement showed that the salinity, pH, temperature, DO and substrate of Pasaran Island are good for aquaculture, while the turbidity, current velocity, depth and chlorophyll-a are less suitable for asian green mussel culture. The overall rating point of land compatibility of Pasaran Island is 6.72, which shows that the water of Pasaran Island is suitable for the cultivation of mussels. The best location for the mussels culture is located at station 2 which has a 7.1 rating point.

Keywords: Asian green mussels, land compatibility, rating points