ANALYZED CIKUNYINYI BAY FOR AQUACULTURE LOCATION OF TIGER GROUPER (*Epinephelus fuscoguttatus*) BASED ON ECOLOGICAL CONDITION

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ABSTRACT

The development of tiger grouper (*Epinephelus fuscoguttatus*) aquaculture Ringgung Coast District Pesawaran quite rapidly. These conditions imply tiger grouper aquaculture in Ringgung Coast is predicted to expand continues. One of the closest water to the beach Ringgung is Cikunyinyi bay waters. The selection of the right location is an indicator of the aquaculture effort, therefore it is necessary to do an analysis of the aquatic suitability for the aquaculture effort sustainability. The purpose of the study was to describe the ecological condition of Cikunyinyi bay waters and analyze the level of aquatic quality suitability for tiger grouper aquaculture. This study was conducted in October-November 2013. Analysis of aquatic quality was conducted in the Laboratory of Fish Health and Water Environment, Center for Mariculture Development Lampung using 8 location as the water sampling location. The method in this study is descriptive exploratory method. While the method of determining the location of sampling points using purposive sampling method. Analysis in this research using the matching and scoring method. The results show conducted Cikunyinyi bay have the adjustability that is marginal accordance (*Marginally Suitable*). Marginally accordance is show Cikunyinyi bay require further treatment if it wants to be the aquaculture location. The primary variables such as water base material is not expected to conform to the development of tiger grouper aquaculture. Cikunyinyi bay environmental engineering needed to reduce the influence of the limitations of the primary and secondary variables with coral transplantation. Transplantation of coral reefs needed to turn the waters into compliance with environmental requirements for the tiger grouper cultivation.

Keywords: Cikunyinyi bay, tiger grouper, mariculture, water quality, carrying capacity

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