ABSTRACT

The Use Of Benthos In Detecting Of The Quality Of Water In Way Sekampung River, Metro Kibang Lampung Timur

By

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The river of Way Sekampung flows from the direction of upstream to downstream river through some area in Lampung especially, the district of eastern and southern district Lampung. Some of the activities of the utilization of the river by the community in all of the upstream of Way Sekampung are sand mining, the outlet of the disposal of liquid waste households, water sources of agricultural activities and other. The environmental force on river increased because of the waste from various activities disturbing the utilization of the river. The decline in the environmental changes can be identified from the waters of physical component, chemical and biological factors of the river in the above considerations, the detection of the research needs to be conducted in the river water quality by applying benthos of Sekampung river, Metro Kibang of East Lampung Timur based on the season differences (rain and dry season) the river environment can be managed and maintained the seosan difference for sake of the activity of people and animals as well sustainably as organisms other waters.

The methods used in this research is a survey method with different time survey, where the upstream of river Sekampung Way used as research sites. The data obtained by primary data of the measurement of water quality parameters such as physics, chemistry and biology of benthos community.

The results of research are 1) composition benthos of Way Sekampung, Metro Kibang East Lampung 17 fylum and 61 of genus. 2) Benthos community structure of Way Sekampung, Metro Kibang East Lampung is the as follow: a. the diversity index (H) ranges between 1.12 -2.20. b. Evenness (E) index ranges between 0.63 - 0.99. Domininon (D) index ranges between 0.13 -0.46. d. Similarity (S) index ranges between 11.76 % -47.05 %. 3) The relationship between the benthos structure and index pollution is r= -0.57; the influence of index pollution to benthos index diversity showed as Determination value (R= 33%). Way Sekampung Metro Kibang East Lampung based on pollution index has been classified as in good condition until lightly polluted for third class.

Keyword: benthos, the quality of water, polution index, Way Sekampung.