

Firstyananda, Prima. 2012. **Composition and Diversity of Macrozoobentos in three research site in Kuluhan Jabung, Kabupaten Magetan** . SCRIPT. Under the guidance of Dr. Bambang Irawan, M.Sc., and Drs. Noer Moehammadi, M.Kes. Departemen of Biologi, Faculty of Science and Technology. Airlangga University. Surabaya.

ABSTRACT

Research about “Composition and Diversity of Macrozoobentos in three research site in Kuluhan Jabung, Kabupaten Magetan” was performed in August 20-25.2012. Sample were collected from seven research site with five replications in each station. Research site is chosen based on it’s utilization to human activities neraby. Collection of sample is done using surber net and taken to Biosystematic Laboratory of Airlangga University for identification. Measured physicochemical parameters of water flow velocity, Dissolved Oxygen (DO), water temperature, water depth, organic substrates. Analysis from the research it was discovered that substrate composition in spring water till irrigation consist of, small spones, granules, sand and silt. Measurement of substrate size is done using mesh filter. Data from identification is later analyzed using Shannon-wiener of diversity. Of the seven research stations diversity values obtained makrozoobentos there are differences, diversity values are considered low at 1.13 to 1.29 at the research station II, III and I while the value of species diversity classified makrozoobentos very low at 0.28 to 0.96 contained in the research station V, IV, VI and VII. Makrozoobentos which dominate at each research station is of the genus Elimia, Chironomus, Leptoxis and Tubifex. Genus dominate at Station I is Tubifex. The genus that dominates at Station II, IV, V, VI are Elimia. Genus dominate at Station VII is Leptoxis and Genus dominate at Station III is Chironomus.

Keywords: *Diversity, Makrozoobentos, sources of water and its flow, substrate composition, Mesh filter*