

**The Effectivity Utilisation Of Fungus Waste *Baglog Old And*
Contaminant (Combination System) Concerning Plankton
Density In Waters (Pool Tarp) As Indicator Of Waters Fertility**

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ABSTRACT

The aim of this research was to determine the effect of using fungus waste *baglog old and* contaminant concerning type of plankton and plankton density in freshwater. This research was conducted at the Politeknik Negeri Jember. It was on July to November 2015. This research used completely randomized design (CRD) with 4 treatments and 3 replications, namely P1 = 0 gram/L, P2 = 5 gram/L, P3 = 10 gram/L and P4 = 15 gram/L. The parameters of this research included identification type of plankton which growth of each treatment, the density of plankton, diversity index, and water quality. The results showed that utilisation of fungus waste *baglog old and* contaminant was highly significant Concerning Plankton Density In Waters ($F_{\text{calculated}} > F_{\text{table}} 1\%$) with each value P1=3154 ind/L, P2= 4062 ind/L, P3=6864 ind/L , P4=10278 ind/L, but didn't affected to diversity index ($F_{\text{calculated}} < F_{\text{table}} 5\%$) with each value P1=1,21, P2= 1,05, P3=0,95, P4=0,96. In addition, water quality during this study period showed that all parameters were suitable for plankton to survival. Finally, utilisation of fungus waste *baglog old and* contaminant positive concerning to type of plankton and plankton density in freshwater.

Keywords : *Waste Baglog Old, Waste Baglog Contaminant, Plankton, Diversity Index, Natural Food, And Organic Fertilizer.*

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