IDENTIFICATION OF THE DOMINATION OF ALGAE’S GENUS IN MOROKEMBRANGAN BOEZEM WATER AS A HIGH RATE ALGAE POND (HRAP) SYSTEM

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Abstract

The identification of the domination of algae’s genus is very important to optimize the performance of HRAP. The purpose of this research is to determine the most dominated algae’s genus in Morokembrangan Boezem water as a HRAP system.

This research will discuss the identification of domination algae’s genus in Morokembrangan Boezem water for HRAP system. The first thing to do is do the sampling in the Morokembrangan Boezem water by using the plankton net. The identification will be done by using the microscope while to determine the domination of algae species, it will be counted by using the counting chamber Sedwick-Rafter slide method. All of these activities will be done in the laboratory.

It can be concluded that there are 39 different algae genuses for 3 times in sampling period of August, October and December at 3 different locations. The most dominated algae genus in each sampling is Oscillatoria sp. with the domination index between 49%-78%.

Kata Kunci: waste water treatment, High Rate Algae Pond (HRAP), algae, algae classification, identification of algae genus, Boezem water