ABSTRACT

Water quality is affected by the natural conditions of the river and by human activities. Changes in water quality conditions caused by land use, lithology, time, rainfall and human activities that lead to pollution of river water physical, chemical, and biological. The aim of research to identify the level of water pollution load in Tambakbayan River on the river channel Maguwoharjo Village, Sub-district Depok, District Sleman until Jambidan Village, Sub-District Banguntapan, District Bantul and assess the pollution control efforts in Tambakbayan River.

Analysis of the data by using the pollution index method to determine the status of water quality and the laboratory analysis for analyzing the substances contained in the water Tambakbayan River. The laboratory analysis includes parameters physics parameter (TSS), chemical parameters (pH, BOD, COD, Sulfide, Nitrat, Detergent and oil and grease) and biological parameter (total coliforms bacteria).

Settlement activities (domestic waste) provide input to the pollution load Tambakbayan River. Water quality of Tambakbayan Rivers based test by water pollution parameters has decreased the quality of water intended for COD, BOD, Sulfide, detergents, oil and grease and total coliforms bacteria that exceeds quality standards.

Tambakbayan River pollution control strategies can be done by making the Waste Water gardem (WWG), manufacture of garbage, increase knowledge and participation, enhancing the supervision and monitoring of waste disposal and improve the water quality of the river.

Keywords: Domestic Waste, Water quality, Pollution control