

# **SAMPAH DAN PENGARUHNYA TERHADAP KUALITAS AIR DANAU LIMBOTO**

**Chairunnisa J.L**

**Staf Dosen Jurusan Biologi Fakultas MIPA  
Universitas Negeri Gorontalo**

**Abstract** : The aim of this research was to know garbage influence to water quality of Limboto lake on Gorontalo province. The samples were taken in part of surface, middle and base of the lake. The methods were based on qualitative and quantitative methods. The analysis of sedimentation, temperature and pH used quantitative methods. The changes of colour, aroma and turbidity on Limboto lake detected based on qualitative methods. The coliform bacteria detected based on qualitative and quantitative on the laboratory. Result of this research shows as the both research location has experienced turbidity, colour and aroma. The area was not having garbage higher of temperature than the one. On the contrary, the area having garbage higher sedimentation of than the one. Chemical analysis has similar pH on the both locations. The qualitative and quantitative analysis of Coliform bacteria show area research  $>24.00 \text{ sel.ml}^{-1}$  water. That means, Limboto lake has passed threshold value based on regulation of government no. 82 the year 2001. Therefore, the public around of Limboto lake expected keep cleaning and prevent contamination of the lake.

**Key Word** : garbage, Limboto lake