

STUDY ON WATER QUALITY OXBOW LAKE
IN BULAKAN VILLAGE, DISTRICT SUKOHARJO,
SUKOHARJO DISTRICT, CENTRAL JAVA

ABSTRACT

Lake is one of freshwater ecosystem, and serves as a container and store water from the river water, springs and rainwater. As one of the freshwater ecosystems, lake has important role and potential for development and in used for various purposes, such as economic interests, fisheries, irrigation, water resources and tourism. However, the use of the lake is often not noticed sustainability, so the quality of the lake water itself is undergoing significant change. Location of the study is oxbow lake that is in the Bulakan Village, Sukoharjo district, Central Java province.

The method used in this study are survey methods and laboratory analysis. The sampling technique in this research is by using purposive sampling method this method is used to determine the point of sampling techniques with particular consideration. Survey methods, is used to collect the necessary data in the study. Laboratory methods used to test the parameters referenced as a determinant of the oxbow lake water quality .

From the research, the quality of the existing water oxbow lake at a scenic location studies showed the presence of contamination of organic substances. Of the four (4) point of water samples taken from the oxbow lake, three (3) of which showed high COD value and exceeds the quality standards established by Regulation No.82 of 2001 with class II water quality classifications, namely at the point of sample 2 (34.72 mg / l), the sample point 3 (41.66 mg / l), and the sample point 4 (62.50 mg / l). It can be concluded that the water quality in the oxbow lake at the sites polluted by organic substances.

Keywords: surface water, water quality, oxbow lake