

## ABSTRACT

Wastewater Rejo Agung Baru sugar factory require special attention in the effort to industrial control. The quality of wastewater produced will affect the environmental health quality around the factory. The study aimed to analyze the relationship between the quality of wastewater with the quality of the environment health around the Rejo Agung Baru sugar factory in the Madiun.

This study is a n d escriptive obs ervational. The popul ation di vided i nto environment a nd hum an popul ations. E nvironmental s amples comprised of 5 sampels o f w ater r ivers an d 7 s amples o f w ell w ater, w hereas h uman s amples were 7 r espondents. Retrieval of data by collecting secondary data, observations, interviews us ing qu estionnaires, a nd c onducted laboratory t ests on s amples of water r ivers an d w ater wells. T he v ariables o f t his s tudy is th e s ugar factory wastewater quality and environmental health quality which consists of the quality of water bodies, water quality of wells and public complaints.

The result at this study showed that the sugar factory wastewater quality is in c ompliance w ith quality s tandards b y E ast J ava G overnor R egulation N o. 72 Year 2013 about wastewater quality standards for Industry and / or other business activities in the East Java. The quality of the water river before and after flowing wastewater, t here ar e s ome p arameters h ave n ot b een i n ac cordance w ith t he quality standards based on the East Java Regional Regulation No. 2 of 2008 about Water Quality Management and Water Pollution Control in the East Java that is parameters B OD<sub>5</sub> and t emperature. W ell w ater q uality p arameters are n ot appropriate quality standards based on P ermenkes No: 416/Menkes/PER/IX/1990 about t he T erms and W ater Quality Monitoring is a n or ganic substance. In this study, a ll r espondents h ad c omplaints of o dor f rom w aste w ater s treams, one respondent had c omplaints of odor i n w ell w ater and no h ealth c omplaints over the use of well water.

The conclusion of this research is the quality of wastewater affects health environmental quality, but the quality of environmental health is also affected by the trash, agricultural waste, a distance of toilet and other pollutants.

**Keywords** : Quality of Wastewater, Quality of Health Environmental, Quality of Water River and Quality of Well Water