

**Trisno . Study of Some Properties of Soil Liquid Waste Disposal Household Batik Wukirsari In the village , Imogiri , Bantul , Diy . In Bring Guidance : Ir. Didi Saidi , M.Si and Dr.Ir Yanis Woro Wijaya Rati, M.Si**

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**ABSTRACT**

*This research intend to determine the effect of batik industrial liquid waste to some soil characteristic, to determine the effect of time period of industrial liquid waste disposal batik about contamination levels on the ground and to find out how big the batik industry liquid waste contaminants in soil depth > 30 cm. The method used in this research is a survey method. Sampling was carried out in five landfills. Determining the location and the place was done by purposive sampling based on the period of time the operation of the batik industry in 2008, 2009, and 2009 also that sampling based on physical pollution. At each site soil samples were taken as 6 samples, the samples obtained from the 3 points and each point taken 3 times replications. Of each hole is taken 2 times sampling soil at a depth of <30 cm and >30 cm. In each repetition, composited soil accordance same depth, so that the total soil samples were taken by 30 composite soil samples. The parameters observed are : soil color, soil texture, pH, organic matter, heavy metals Cu and Zn as well as the total amount of soil microbes. The research indicate that, the batik industry liquid waste influential the soil color and pH of the soil. The pollution level of heavy metals Cu contaminants from the fifth location of industrial liquid waste disposal sites batik different periods of the operation, was not significantly different. But the pollution level of heavy metal Cu at a depth of <30 cm and depth >30 cm in the fifth from that location, significantly different. Then the pollution level of heavy metal Zn from five locations are significantly different. But the pollution level of heavy metals Zn at depths <30 cm and depth >30 cm from the five locations, are not significantly different. Heavy metal contamination levels of Cu and Zn in depths <30 cm and depth >30 cm of the five locations where liquid waste disposal batik industry, does not exceed the quality standards of heavy metals in the soil.*

**Keywords : Soil properties, Liquid Waste Batik**