ANALYSIS OF INDUSTRIAL ENVIRONMENTAL MANAGEMENT IN LIVESTOCK ON SOCIO-ECONOMIC CONDITIONS OF THE COMMUNITY (CASE STUDY: INDUSTRY OF BLESSED SOURCES)

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ABSTRACT

Duck farming industry has developed slight significantly each year. Livestock industry has been established in many rural areas. The increasing development of the duck farming industry would have an impact on the increasing waste produced. This research aims to measure and identify how much waste pollution impacts the duck farm industry that occurs to the environment, as well as evaluate and improve the implementation of environmental management of the Sumber Berkah Duck Farm Industry. In this study, Life Cycle Assessment method and GAP Analysis method were used. Life Cycle Assessment results shown the biggest impact comes from contamination of phosphate content in animal feed waste. There were 5 categories that experience environmental pollution, namely marine toxicity of 20,18578 kg 1,4-DCB-Eq, human toxicity of 2.95E + 04 kg of 1.4 DCB-Eq, freshwater eutrophication of 3,12304 kg P-Eq, and freshwater ecotoxicity of 10.80465 1,4-DCB-Eq kg. While the results of the overall GAP Analysis obtained a value of 25%, indicating that it was still necessary to improve the application of the environmental management system. Recommendations for improvements that can be implemented were standardization of environmental management system managers, monitoring and adjustments periodically, and conducting management reviews so that improvements and improvements could be made in the implementation of ISO 14001 EMS in the future.

Keywords: life cycle assessment, gap analysis, environmental management