

## ABSTRACT

**FAJAR BASKARA**, NIT. 51145345.T, 2018 "Influence is not optimum performance of *Sewage Treatment Plant* on the preservation of the marine environment, Diploma Program IV, Teknika, Politeknik Ilmu Pelayaran Semarang, Supervisor I: Agus Hendro Waskito, MM and Supervisor II: Capt. Arika Palapa, M.Si., M.Mar

*Sewage Treatment Plant* is one of the auxiliary machinery systems used to process sewage or human waste on board so that waste can be discharged into the sea and does not cause pollution of the marine environment. The background of this thesis is ketidakoptimalan performance of Sewage Treatment Plant, so that the waste water is safe to throw into the sea. Formulation of the problem in this study is whether the causes of suboptimal Sewage Treatment Plant?, What effect did that caused to the preservation of the marine environment? and whether efforts to address the problem of sea pollution originating from the Sewage Treatment Plant?

The method used by the writer is descriptive research methodology with method fault tree analysis to identify the problem of not maximum *Sewage Treatment Plant*. The result is the risk arising from lack of maintenance systems *Sewage Treatment Plant* is not the maximum amount of air that enters the tank are the main cause, the clogged drains emanating from the toilet, and not the maximum drain pump. Discussion of the problem is to carry out the treatment plan at *Sewage Treatment Plant* to carry out planning and periodic maintenance with treatments ranging from daily, weekly, and monthly.

The conclusion of this study is the risk arising from the lack of care at the Sewage Treatment Plant is the occurrence of fatal disorders that cause system malfunction *Sewage Treatment Plant*. It is characterized by components Sewage Treatment Plant were not able to work optimally. *Sewage Treatment Plant* treatment method should be done properly and regularly in accordance with the schedule that has been programmed so that damage to the *Sewage Treatment Plant* can be avoided.

**Keywords:** *Sewage Treatment Plant*, is not optimal