

## Water Quality of Cengkareng Drain in Maritime Security Perspective

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**Abstract :** The scope about maritime security copes all of the problems emanating from maritime domain. Those problems can give such threats to national security of the state. One of threats taking place nowadays in maritime domain is about pollution. Pollution coming from many sources may increase water-borne disease risk that can cause the instability of national security. Pollution coming from many sources may increase water-borne disease risk. Hence the pollution makes an improper condition of environments for humans and others biota dwelling in the waters. One of the tools that can determine about pollution is by measuring about the water quality of its waters. In this case, what brings the waste and pollutants is there an activity of tidal waves introducing substances or energy into the natural environment. Cengkareng Drain is one of the water channels which is affected by tidal waves. Cengkareng Drain was become an observation area to examine the relation between water quality and tide waves. This research was conducted monthly from July to November 2015. Sampling of water was conducted every ebb and tide in every observation. Pollution index showed that the level of pollution on Cengkareng drain was moderately polluted, with the score about 7.7-8.6. Based on the results of t-test and analysis of similarity, the characteristic of water quality on rising tide does not significantly differ from the characteristic of water quality on ebbing tide. Therefore, we need a proper management as a means to control the pollutants in order to make good maritime security strategy.

**Keywords :** maritime security, Cengkareng drain, water quality, tidal waves

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