SEDIMENTATION ANALYSIS IN DOMESTIC PORT OF TERMINAL PETIKEMAS SURABAYA (TPS)

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Abstract

Sedimentation in the Domestic Port of TPS is very high, this could create difficulties for ships to berth and to maneuver around of this port. The aim of this final project are to calculate sedimentation in the Domestic Port of TPS and to predict sedimentation in the Domestic Port of TPS for further years. The result shows that by March 2001 until February 2008 the highest sedimentation is on the range of Februari 2005 until December 2005 which is 19195,1 m$^3$/month, whereas the lowest sedimentation is on the range of August 2007 until February 2008 which is 1622,4 m$^3$/month. From the result of simulation, the sedimentation for 1 year is predicted as 34852,5 m$^3$, 2 years is 69704,9 m$^3$, 5 years is 174262,3 m$^3$, and 10 years is 348524,6 m$^3$.

Keywords: Sedimentation Rate, Numerical Modelling