Received:August,21.2009 Accepted:October,20.2009 Abstract

The water exchange between a borrow pit and an ambient water is widely divergent, which is dependent on the aspect ratio of the borrow pit, and stability condition of water column. Large Eddy Simulation (LES) method was applied to examine this type of water exchange. In model experiments, various types of stratification and current velocity conditions were examined by using LES model for the water exchange between a borrow pit and an ambient water. We found an optimum Richardson numbers to start a water exchange between a borrow pit and an ambient water.