

عنوان مقاله:

Numerical Simulation of an Outfall in Shallow Waters

محل انتشار:

ششمین کنفرانس بین المللی مهندسی عمران (سال: 1382)

تعداد صفحات اصل مقاله: 5

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خلاصه مقاله:

Development of industries and increasing the population in coastal areas result in over discharging of wastewater in the ocean. This has an unpleasant impact on the coastal environment, which can be reduced by using outfall. In this study, dilutions obtained from field measurement were compared with those predicted by Visjet and Cormix models. It is found that the models outputs are in good agreement with the observation. Experimental results of the near field dilution show that the dilution increases with increasing r/M ; the ratio of ambient current momentum to the effluent discharge momentum. Numerical results for the plume dilution plotted in a log scale indicate a linear relation between r/M and the ratio of field dilution to predicted dilution. Simulation with numerical models is in relatively good agreement with experimental data

کلمات کلیدی:

Ocean outfalls, Numerical simulation, VISJET, CORMIX

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