

Valorization of dredging sediments from algerian dams. Case of the Cheurfas dam

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Abstract :

In environmental geotechnics, the valorization of dredging sediments and their use in embankments is a way increasingly prospected by researchers these last years. This paper treats exploitation of dredging sediments of the dam Cheurfas (Algeria) and their valorization in road embankments. Physico-chemical, mineralogical and mechanical analyses were studied to determine their level of influence on the mechanical behaviour. These analyses showed that a treatment by sand, lime and cement proved to be necessary. Various formulations were elaborate in this direction and a synthesis of the mechanical characteristics was elaborate in accordance with the standards and the classification of materials used in road embankments.

Keywords : dredging sediments, valorization, treatment, road embankment, dams, mechanical behaviour.

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