

## 8. Application of CSG Method to Landslide Prevention Work

Tetsuya Hironaka, Toshiyuki Ishii, Tomoya Taniguchi, Kazuchika Yoshida

Ensuring the safety of a slope of the reservoir of the *Otaki* Dam in the *Sako* district was required. Then, the cemented sand and gravel (CSG) method was used for preventing slope slides. The method uses river bed gravel easily available near the construction site and excavated earth as aggregate. The method therefore imposes small environmental loads and provides higher strength and greater stability than the methods using cement-improved earth. It is hoped that the method will be applied to counterweight fills. This paper describes the mix proportions, mixing equipment, construction management and quality control for the CSG method adopted to prevent landslides in the *Sako* district.

**Keywords:** landslide prevention work, CSG (cemented sand and gravel) method, mixing equipment, quality control