

4. Improvement in Performance of Continuation Slurry Dewatering System

- Application to Sediment in Storage Reservoirs and Excess Sludge from Slurry Shield-

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A continuous dewatering system was developed for sediment in storage reservoirs and for excess sludge from slurry shield. The system, which involves use of screw press, was actually used at dam and tunnel construction sites. In dredging of sediment control dams for restoring the performance, a complete set of equipment was set at a small space and dewatered the sludge consisting of clay and silt. In slurry shield tunneling, the system was verified by using together with a filter press machine. At both sites, the strength of dewatering disposed soil could be adjusted by controlling the rotation of the screw press, and the system was shown to be capable of responding to requests on quality.

Key words : sediment in storage reservoirs, dredging, slurry shield, excess sludge, screw press