







## Vacuum preloading for land reclamation

5

When there is a shortage of sand fill for land reclamation, excavated and dredged soil becomes an economical solution. In this case, vacuum preloading is the most suitable method for soil improvement.

NANYANG TECHNOLOGICAL UNIVERSITY School of Civil and Environmental Engineering





consisting of river muds capped with sand was used. The thickness of the fill was up to 9 compressible clay was over 30 m.









































## Effect of lateral displacement

































and Settlement								
Degree of consolidati on (DOC)	Based on settlement data				Based on pore water pressure data			
	30	60	90	End	30	60	90	End
Case I	-	-	87%	-	-	- (	82%	-
Case II	45%	80%	88%	95%	38%	73%	84%	92%



















## Vacuum with membrane, but without sand blanket















59

School of Civil and Environmental Engineering

<section-header><list-item><list-item><list-item><list-item>