

Hydraulic cell consolidation test : summary

Location		Job ref.	
		Borehole/Pit no.	
Soil description		Sample No.	
		Depth	m
		Date	
Test method	BS1377: Part 6: 1990 : 5		Date
Isotropic consolidation in triaxial cell			

Sample condition and quality

Type of specimen Undisturbed/Compacted

Preparation procedure
remarks

Saturation procedure

Pressure increments	kPa	Pressure differential	kPa
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INITIAL SPECIMEN

Diameter	mm		Particle density	
Height	mm		measured/assumed*	Mg/m ³
Density	Mg/m ³		Voids ratio	
Moisture Content	%		Degree of Saturation	%
Dry Density	Mg/m ³			
In-situ stresses: Total kPa			Effective	kPa

SATURATION

Swelling pressure	kPa		After		Cell pressure	kPa	
Volume of water			Saturation		Pore pressure	kPa	
taken in	mL				B value		

CONSOLIDATION STAGES

Stage no	Cell pressure kPa	Back pressure kPa	Effective stress		Undrained stage		End of Consol.		Incr.	m _v	c _v
			start kPa	end kPa	pwp incr. kPa	B Value	e	U %	Vol.change		
										c _{ro} /c _{ri}	
									δV cm ³	m ² /MN	

AFTER TEST

Density	Mg/m ³	
Moisture Content	%	

Operator	Checked	Approved

*Delete as appropriate