Undrained Triaxial Compression Test

Location	Job ref.	
	Borehole/Pit no.	
Soil description	Sample No.	
	Depth	m
	Date	

Test method BS1377: Part 7: 1990 5/15/94 **8/9***

Type of specimen Undisturbed/compacted* | Nominal diameter mm

Preparation procedure

Specimen details		Initially	After test		Sketch showing specimen location in original sample
Diameter	D mm		Mass g		
Area	A_o mm^2		Dry mass g		
Length	Lo mm		Moisture Content %		
Volume	cm3				
Mass	g				
Density	Mg/m^3				

Compression test Single stage/Multistage, Stage*

Machine no	Rate of Deformation mm/min	Cell pressure kPa

Membrane thickness mm	Force device no.	Mean calibration n/division	Stress factor kPa/division

Deformation gauge reading	Compression of specimen ΔL mm	Strain $e = \frac{\Delta L}{Lo}$	Force gauge reading	Axial force *P* N	Correct area $A = \frac{Ao}{1 - e}$ mm^2	Measured deviator stress $(\sigma_1-\sigma_3) = \frac{1000P}{A}$ kPa

Sketch of failure conditions

Inclination of Shear surface

Measured deviator stress	kPa
Membrane correction	kPa
Corrected deviator stress	kPa
Axial strain	%
Shear stress cu	kPa

Operator	Checked	Approved

* Delete as appropriate