Ring Shear Test

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

Test method BS1377: Part 7: 1990 **6***

Sample Preparation procedure

Machine no.	Torque arm radius R mm	

Distance between points of application of force rings L mm

Weighings		**Specimen dimensions**	
Wet soil + cell g		Inside radius r_1 mm	
Cell g		Outside radius r_2 mm	
Wet soil g		Mean radius r mm	
Moisture content from trimmings %		Height H mm	
Density Mg/m^3		Volume $\frac{2\Pi r(r_2-r_1)H}{1000}$ cm^3	
Dry Density Mg/m^3		Particle density Mg/m^3 Measured/assumed	
Voids ratio e			
Degree of saturation %			

Shear test

Single stage/Multiple stage*	Run no.	Normal stress	kPa
Force device	A	B	Average
Mean calibration			
Displacement factor F mm/division			

Time	Elapsed time mm	Force device reading A	B	average	Angular displ. θ deg	D = θr/57.3 mm	d = (A+B)Fr/L mm	D_1 = D - d mm	Shear Stress τ kPa	Vertical deformation mm

Operator	Checked	Approved

* Delete as appropriate