Consolidation test - calculations

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

Test method	BS1377: Part 5: 1990			
Machine no.	Specimen diameter	mm	Height H0	mm
Cell no.	Height of Solids Hs	:1	Area	mm2
Ring no.	Initial voids ratio eo			kPa

VOIDS RATIO					COMPRESSIBILITY			COEFFICIENT OF CONSOLIDATION			
Increment no	Pressure p	Cumulative Compression (dH - y)	Consolidated height H= Ho-(dH-y)	Voids Ratio e= (h-Hs)/Hs	Incremental Height change dH	Pressure change dp	mv= (dH)*(1000) H1 dp	t50	H= 1/2(H1+H2)	cv 0.026H t50	0.11H t50
	kPa	mm	mm		mm	kPa	m2/MN	min	mm	m2/year	m2/year
0		0		0	0	0	-	-	-	-	-

Operator	Checked	Approved

Form 5D