Your Company Name Here

Consolidated Undrained Triaxial Compression Test

BS 1377 : Part 8 : 1990

Date: Date:

Checked by: Approved by:

Filename: C:\GDSLAB Reports CD\Example Data\CU\[Chris4.xls]Report

Date: 10/10/2006

Specimen Details

		Specimen 1	Specimen 2	Specimen 3
Job Ref.		ASCOT		
Job Location		Hook		
Borehole		2	2	2
Sample No.		U3	U3	U3
Depth	m	8.7	8.7	8.7
Date		11/11/2000	11/11/2000	11/11/2000
Disturbed / Undisturbed		undisturbed	undisturbed	undisturbed

Description of Specimen

soft brown and grey SANDY CLAY with pockets of orange sand

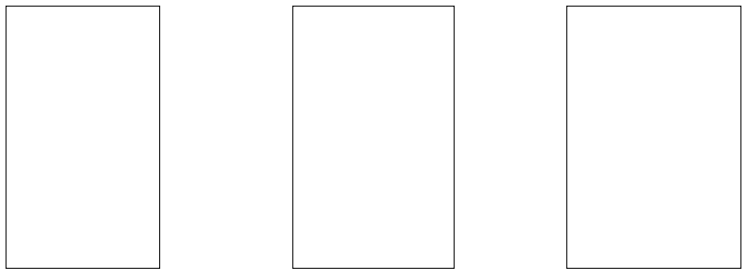
Initial Specimen Conditions

		Specimen 1	Specimen 2	Specimen 3
Height	mm	76.00	76.00	76.00
Diameter	mm	38.00	38.00	38.00
Area	mm^2	1134.11	1134.11	1134.11
Volume	cm^3	86.19	86.19	86.19
Mass	g	183.10	179.90	180.20
Dry Mass	g	151.32	148.19	148.31
Density	Mg/m^3	2.12	2.09	2.09
Dry Density	Mg/m^3	1.76	1.72	1.72
Moisture Content	%	21.00	21.40	21.50
Degree of Saturation	%	107.66	104.03	104.77
Specific Gravity	kN/m^3	2.67	2.66	2.66
(assumed/measured)		assumed	assumed	assumed

Final Specimen Conditions

		Specimen 1	Specimen 2	Specimen 3
Moisture Content	%	20.27	20.69	22.94
Density	Mg/m^3	2.07	2.03	2.09
Dry Density	Mg/m^3	1.72	1.68	1.70

Sketch of Failure of the Specimen



Specimen 1 Specimen 2 Specimen 3

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Specimen Details				
Job Ref.		ASCOT		
Job Location		Hook		
Borehole		2	2	2
Sample No.		U3	U3	U3
Depth	m	8.7	8.7	8.7
Date		11/11/2000	11/11/2000	11/11/2000
Test Setup				
Date started		11/11/2000	11/11/2000	11/11/2000
Date Finished		13/11/2000	13/11/2000	13/11/2000
Top Drain Used		y	y	y
Base Drain Used		y	y	y
Side Drains Used		n	n	n
Pressure System Number		1	2	3
Cell Number		TXLA	TXLB	TXLC
Saturation				
Cell Pressure Incr.	kPa	300.00	300.00	300.00
Back Pressure Incr.	kPa	196.00	289.00	289.00
Differential Pressure	kPa	102.00	5.00	9.00
Final Cell Pressure	kPa	300.00	300.00	300.00
Final Pore Pressure	kPa	198.00	295.00	291.00
Final B Value		0.98	0.96	0.96
Consolidation				
Effective Pressure	kPa	90.00	180.00	360.00
Cell Pressure	kPa	390.00	480.00	660.00
Back Pressure	kPa	300.00	300.00	300.00
Excess Pore Pressure	kPa	300.00	300.00	300.00
Pore Pressure at End	kPa	85.00	174.00	353.00
Consolidated Volume	cm^3	82.59	81.69	80.89
Volumetric Strain		0.013922287	0.017402859	0.0204967
Consolidated Height	mm	74.94	74.68	74.44
Consolidated Area	mm^2	1102.54	1094.64	1087.62
Vol. Compressibility	m^2/MN	0.49137	0.30005	0.17419
Consolidation Coef.	$m^2/yr.$	1.03116	1.24326	1.03116

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Specimen Details

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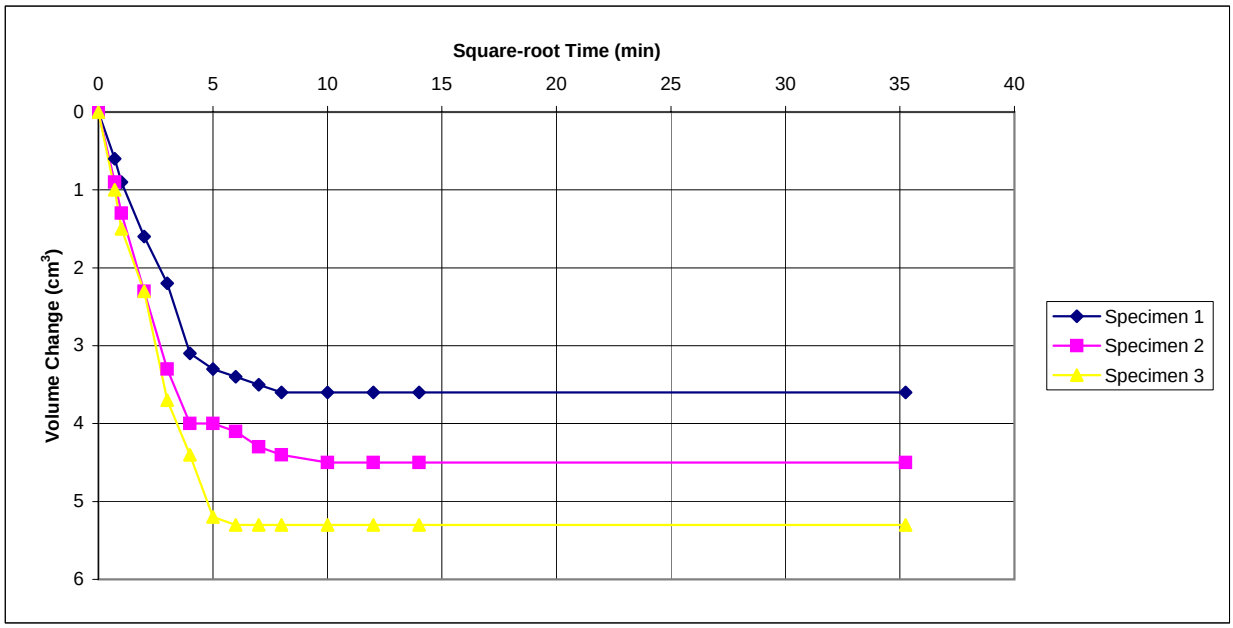
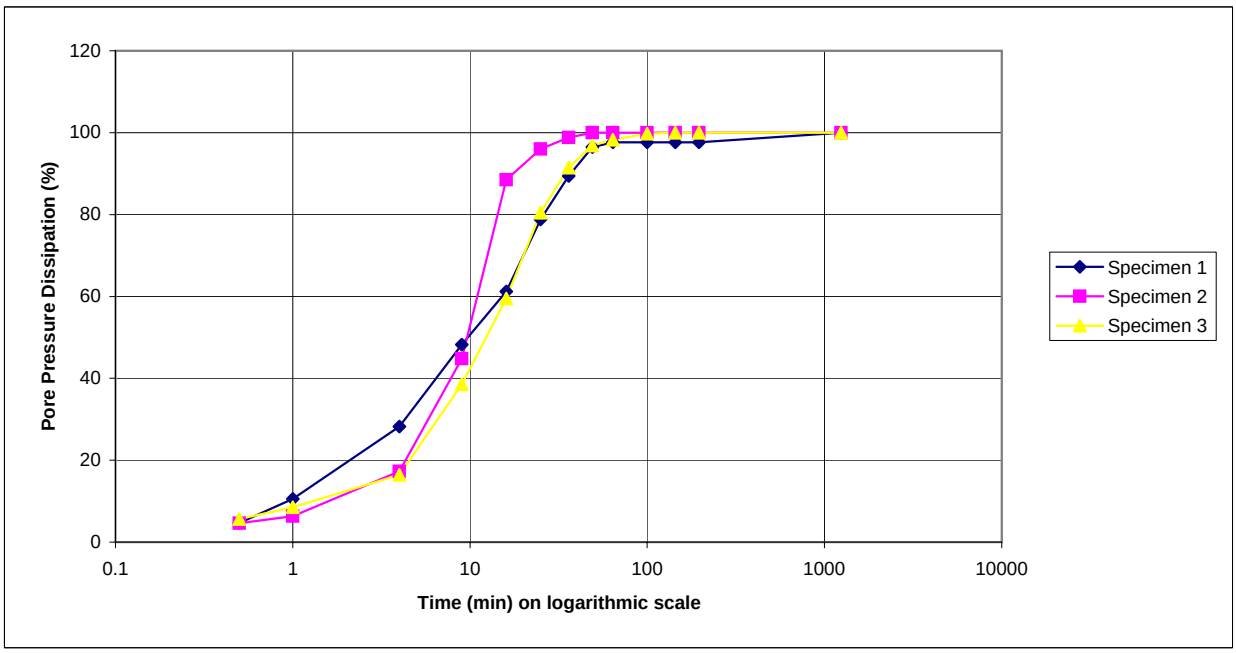
Job Ref.		ASCOT		
Job Location		Hook		
Borehole		2	2	2
Sample No.		U3	U3	U3
Depth	m	8.7	8.7	8.7
Date		11/11/2000	11/11/2000	11/11/2000

Consolidation Stage





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Specimen Details				
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Job Location		Hook		
Borehole		2	2	2
Sample No.		U3	U3	U3
Depth	m	8.7	8.7	8.7
Date		11/11/2000	11/11/2000	11/11/2000
Shearing				
Initial Cell Pressure	kPa	390	480	660
Initial Pore Pressure	kPa	300	300	300
Rate of Strain	%/hour	2.052631579	2.052631579	2.052631579
Max Deviator Stress				
Axial Strain		6.592	10.713	14.669
Axial Stress	kPa	334.65	316.07	546.84
Cor. Deviator stress	kPa	332.11	313.06	542.86
Effective Major Stress	kPa	422.11	493.06	902.86
Effective Minor Stress	kPa	90.00	180.00	360.00
Effective Stress Ratio		4.690	2.739	2.508
s'	kPa	256.05	336.53	631.43
t'	kPa	166.05	156.53	271.43
Shear Resistance Angle	degs	18.07	18.07	18.07
Cohesion c'	kPa	75.19	75.19	75.19
Max Effective Priciple Stress Ratio				
Axial Strain		6.592	10.713	14.669
Axial Stress	kPa	334.65	316.07	546.84
Cor. Deviator stress	kPa	332.11	313.06	542.86
Effective Major Stress	kPa	422.11	493.06	902.86
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Job Location		Hook		
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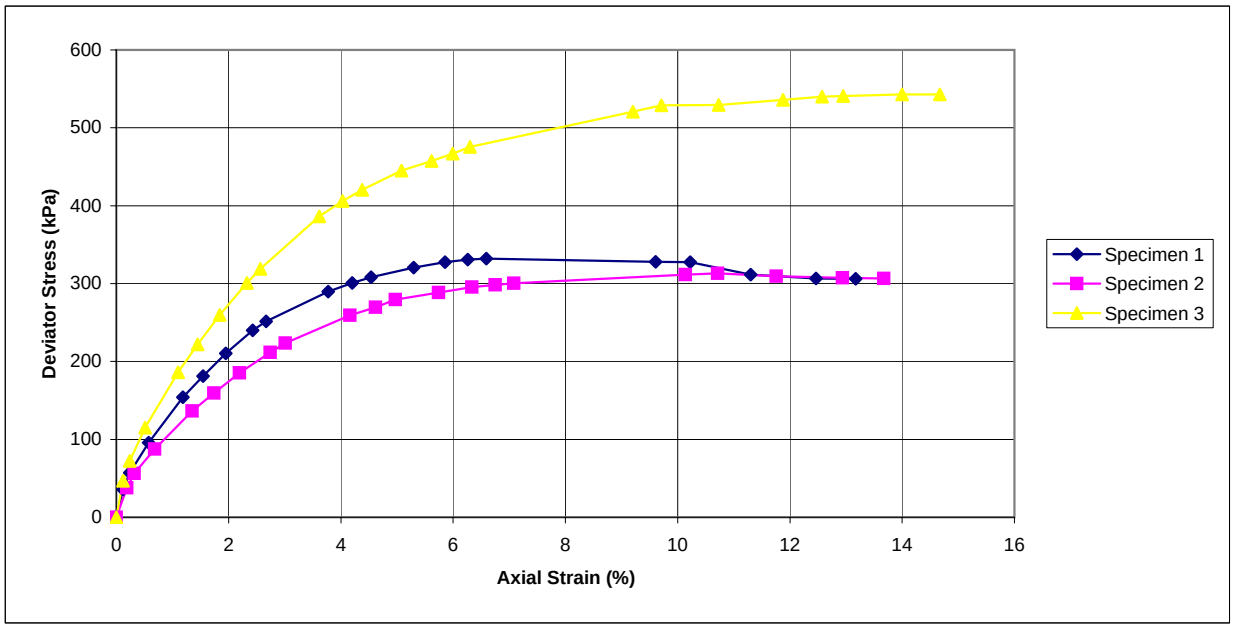
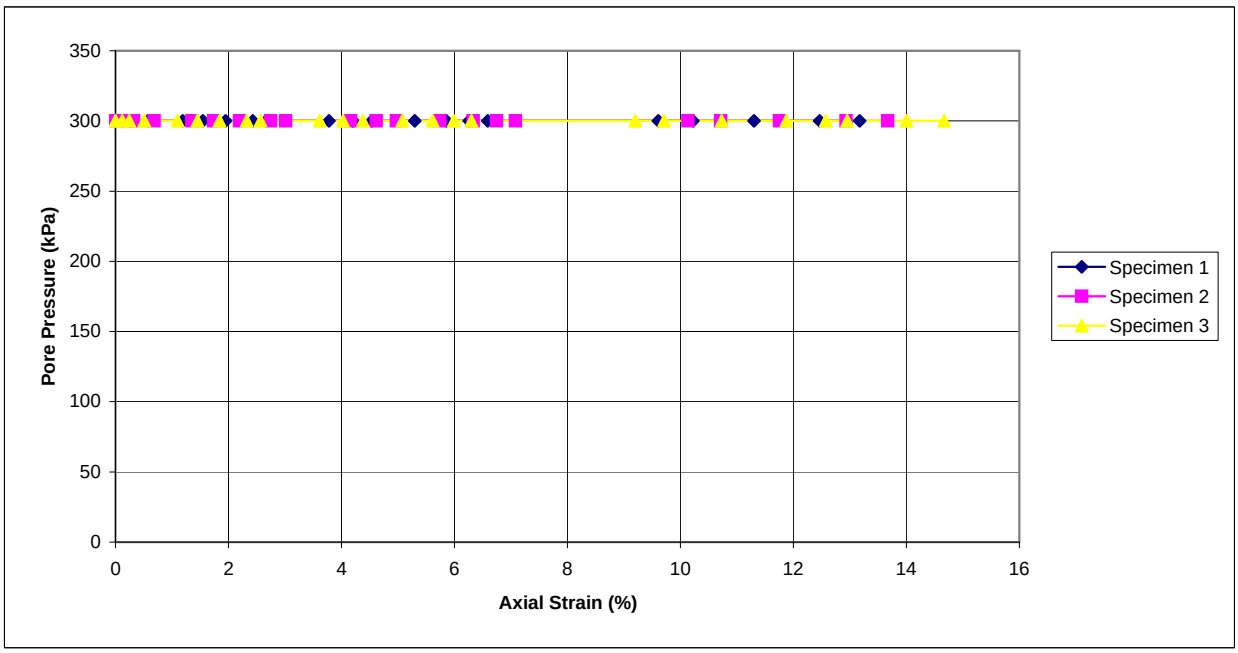
Sample No.		U3	U3	U3
Depth	m	8.7	8.7	8.7
Date		11/11/2000	11/11/2000	11/11/2000

Shearing Stage





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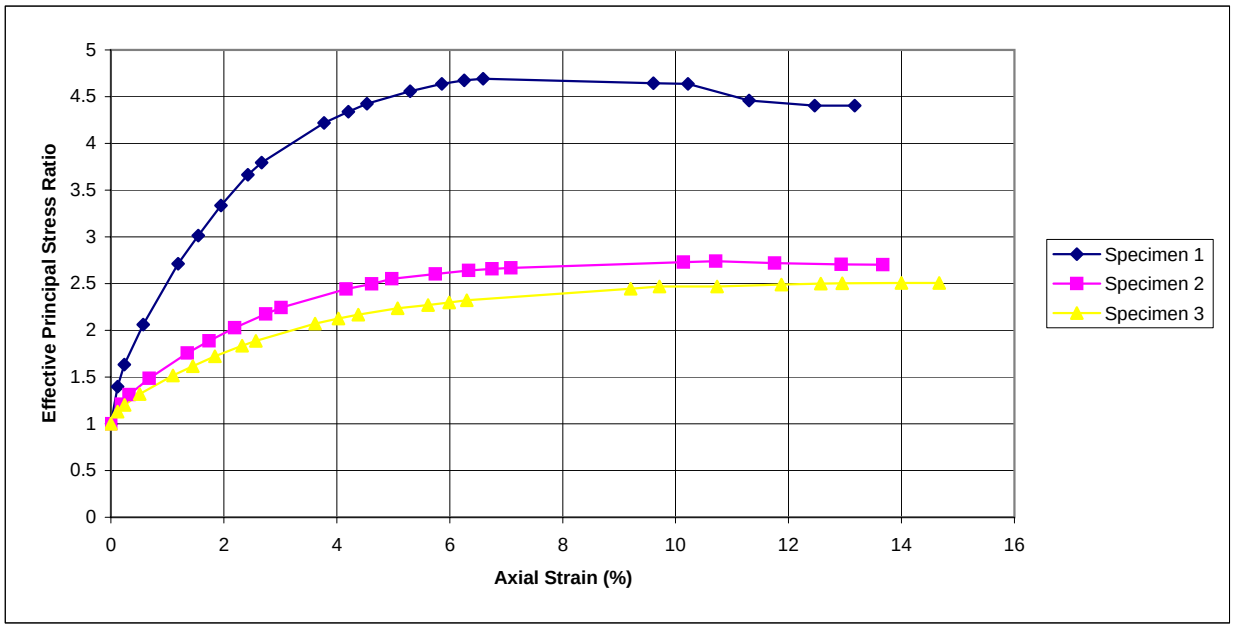
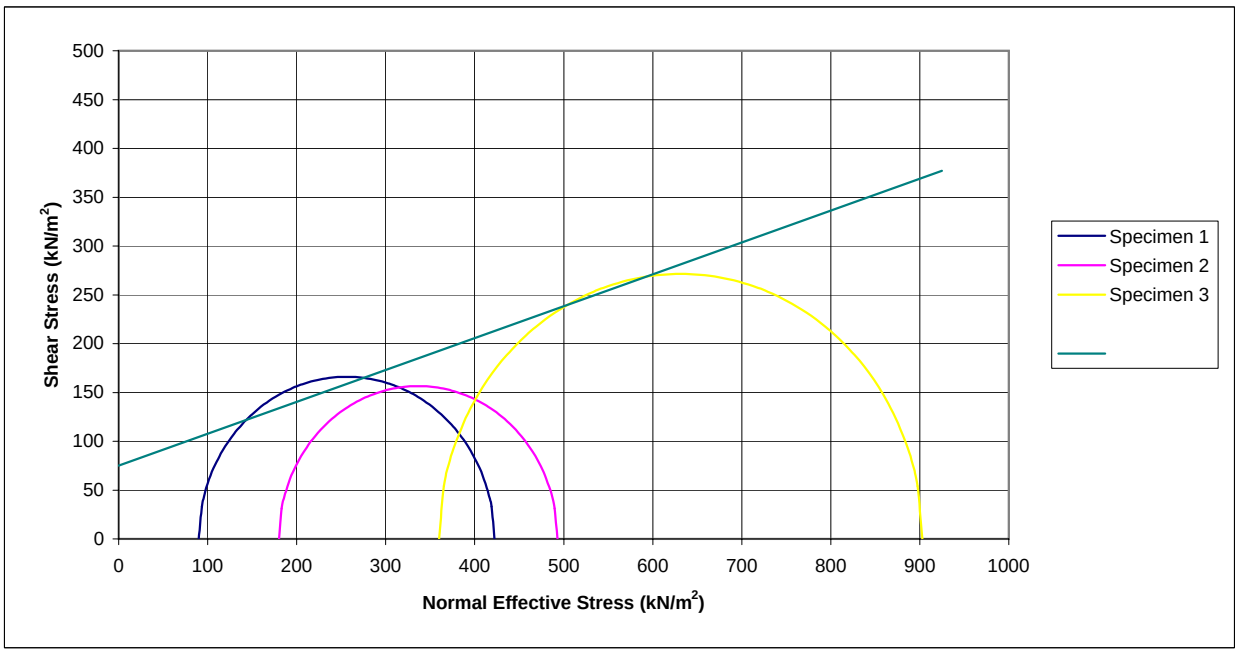
Job Location		Hook		
Borehole		2	2	2
Sample No.		U3	U3	U3
Depth	m	8.7	8.7	8.7
Date		11/11/2000	11/11/2000	11/11/2000

Shearing Stage





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Sample No.		U3	U3	U3
Depth	m	8.7	8.7	8.7
Date		11/11/2000	11/11/2000	11/11/2000

Shearing Stage