



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAxIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.5% Ijuk 3cm
 Date : 14 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	160
Cell pessure	1.00		Rate of compression : 0.5%	Wet densit	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial deformation	Strain %		u	kg/cm ²
0	0	0	0	0	
	40	0.533	25	0.32650637	
	80	1.067	38	0.49362861	
	120	1.600	52	0.67185031	
	160	2.133	65	0.83526106	
	200	2.667	75	0.95851064	
	240	3.200	80	1.01680910	
	280	3.733	84	1.06176719	
	320	4.267	88	1.10616505	
	360	4.800	93	1.16250272	
	400	5.333	98	1.21814010	
	440	5.867	102	1.26071723	
	480	6.400	106	1.30273414	
	520	6.933	111	1.35641073	
	560	7.467	115	1.39723716	
	600	8.000	117	1.41334364	
	640	8.533	121	1.45318967	
	680	9.067	124	1.48053568	
	720	9.600	126	1.49559173	
	760	10.133	129	1.52216743	
	800	10.667	131	1.53659323	
	840	11.200	133	1.55073892	
	880	11.733	132	1.52983551	
	920	12.267	132	1.52059179	
	960	12.800			
	1000	13.333			
	1040	13.867			
	1080	14.400			
	1120	14.933			
	1160	15.467			



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Location	: Salaman, Magelang, Jawa Tengah	Date	: 14 Mei 2004
Description of soi	: Clay	Tested by	: Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	160
Cell pessure	2.00		Rate of compression : 0.5	Wet density	gr/cm ³

Time	Strain			Reading of proving ring	Pore pressure	
	Axial defor mation	Strain			u	
		%			kg/cm ²	kg/cm ²
0	0	0	1	0	0	
	40	0.533	0.995	40	0.522410185	
	80	1.067	0.989	52	0.675491776	
	120	1.600	0.984	76	0.981935069	
	160	2.133	0.979	85	1.092264459	
	200	2.667	0.973	97	1.239673767	
	240	3.200	0.968	103	1.309141717	
	280	3.733	0.963	110	1.390409414	
	320	4.267	0.957	114	1.432986544	
	360	4.800	0.952	120	1.500003508	
	400	5.333	0.947	128	1.591040135	
	440	5.867	0.941	137	1.693316285	
	480	6.400	0.936	140	1.720592259	
	520	6.933	0.931	144	1.759667980	
	560	7.467	0.925	150	1.822483253	
	600	8.000	0.920	154	1.860298468	
	640	8.533	0.915	160	1.921573121	
	680	9.067	0.909	165	1.970067632	
	720	9.600	0.904	170	2.017861861	
	760	10.133	0.899	172	2.029556567	
	800	10.667	0.893	176	2.064430598	
	840	11.200	0.888	180	2.098744404	
	880	11.733	0.883	184	2.132497984	
	920	12.267	0.877	187	2.154171704	
	960	12.800	0.872	190	2.175425255	
	1000	13.333	0.867	192	2.184879059	
	1040	13.867	0.861	190	2.148814549	
	1080	14.400	0.856	189	2.124269673	
	1120	14.933	0.851	188	2.099864854	
	1160	15.467	0.845	188	2.086699557	



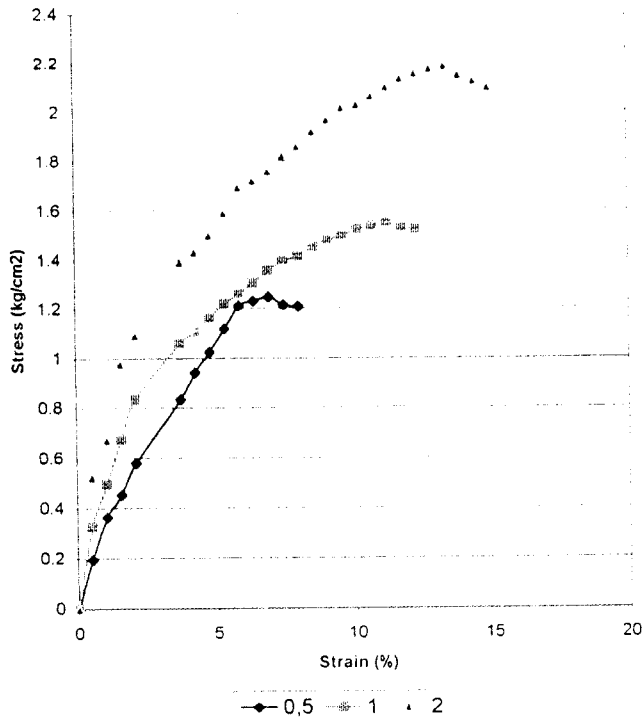
LABORATORIUM MEKANIKA TANAH
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TRIAXIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

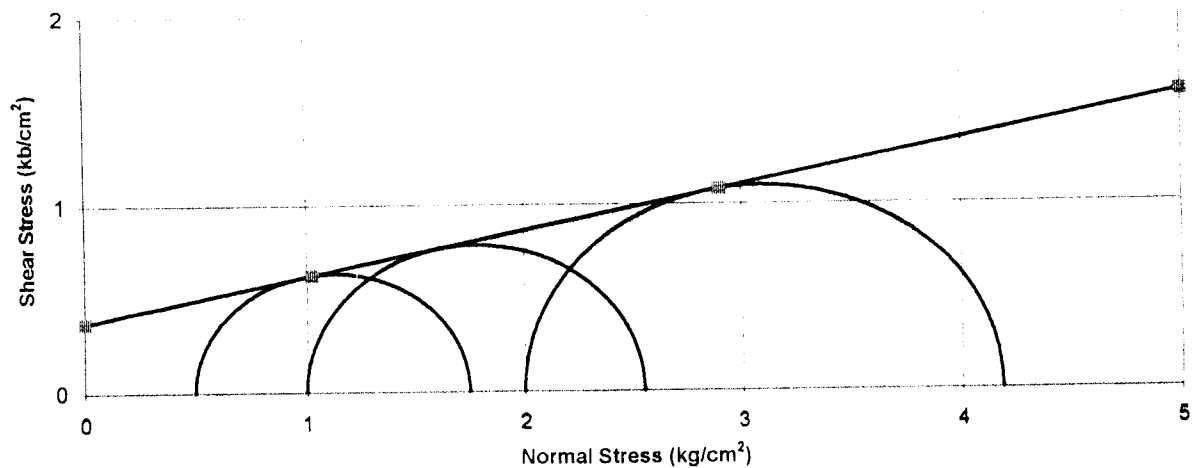
Sampel : Clay + 0.5% Ijuk 3cm
 Date : 14 Mei 2004
 Tested by : Ujang + Mariza



Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm ²	12.57	12.57	12.57
V cm ³	94.25	94.25	94.25
Wt gram	157.00	160.00	160.00
Water Content			
Wt Container (cup), gr	22.45	22.20	
Wt of Cup + Wet soil, gr	50.82	64.00	
Wt of Cup + Dry soil, gr	41.65	50.82	
Water Content %	47.76	46.05	
Average water content %	46.91		

γ_d gram/cm ³	1.665822	1.697653	1.697653
γ gram/cm ³	1.133937	1.155604	1.155604

σ_3	0.5	1	2
$\Delta\sigma = P/A$	1.246431	1.550739	2.184879
$\sigma_1 = \Delta\sigma + \sigma_3$	1.746431	2.550739	4.184879
$(\sigma_1 + \sigma_3)/2$	1.123216	1.775369	3.09244
$(\sigma_1 - \sigma_3)/2$	0.623216	0.775369	1.09244
Angle of shearing resistance (o)	13.77871		
Apperen cohesion (kg/cm ²)	0.364005		



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TRIAxIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.7% Ijuk 3cm
 Date : 18 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.013130		Wight	W gram	147
Cell pessure	0.50		Rate of compression : 0.5	Wet density	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial deformation	Strain %		u	
				kg/cm ²	kg/cm ²
0	0	0	1	0	0
	40	0.533	0.995	22	0.287325602
	80	1.067	0.989	34	0.441667699
	120	1.600	0.984	40	0.516807931
	160	2.133	0.979	48	0.616808165
	200	2.667	0.973	54	0.690127664
	240	3.200	0.968	60	0.762606825
	280	3.733	0.963	65	0.821605563
	320	4.267	0.957	71	0.892474076
	360	4.800	0.952	78	0.975002280
	400	5.333	0.947	83	1.031690088
	440	5.867	0.941	86	1.062957668
	480	6.400	0.936	88	1.081515134
	520	6.933	0.931	91	1.112012404
	560	7.467	0.925	94	1.142089505
	600	8.000	0.920	97	1.171746438
	640	8.533	0.915	100	1.200983201
	680	9.067	0.909	105	1.253679402
	720	9.600	0.904	108	1.281935771
	760	10.133	0.899	108	1.274372728
	800	10.667	0.893	106	1.243350246
	840	11.200	0.888	106	1.235927260
	880	11.733	0.883	104	1.205324947
	920	12.267	0.877	104	1.198042017
	960	12.800	0.872		
	1000	13.333	0.867		
	1040	13.867	0.861		
	1080	14.400	0.856		
	1120	14.933	0.851		
	1160	15.467	0.845		



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TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir Sampel : Clay + 0.7% Ijuk 3cm
 Location : Salaman, Magelang, Jawa Tengah Date : 18 Mei 2004
 Description of soi : Clay Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12 5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	151
Cell pessure	1.00		Rate of compression : 0.5%	Wet densit	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial defor- mation	Strain %				u	
					kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	35	0.45710891		
	80	1.067	0.989	48	0.62353087		
	120	1.600	0.984	60	0.77521190		
	160	2.133	0.979	75	0.96376276		
	200	2.667	0.973	97	1.23967377		
	240	3.200	0.968	100	1.27101138		
	280	3.733	0.963	108	1.36512924		
	320	4.267	0.957	114	1.43298654		
	360	4.800	0.952	118	1.47500345		
	400	5.333	0.947	118	1.46674012		
	440	5.867	0.941	118	1.45847680		
	480	6.400	0.936	118	1.45021348		
	520	6.933	0.931	118	1.44195015		
	560	7.467	0.925	123	1.49443627		
	600	8.000	0.920	123	1.48582280		
	640	8.533	0.915	122	1.46519950		
	680	9.067	0.909	121	1.44471626		
	720	9.600	0.904				
	760	10.133	0.899				
	800	10.667	0.893				
	840	11.200	0.888				
	880	11.733	0.883				
	920	12.267	0.877				
	960	12.800	0.872				
	1000	13.333	0.867				
	1040	13.867	0.861				
	1080	14.400	0.856				
	1120	14.933	0.851				
	1160	15.467	0.845				



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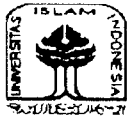
TRIAXIAL COMPRESSION TEST LOADING DATA

Project : Tugas Akhir
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 Description of soil : Clay

Sampel : Clay + 0.7% Ijuk 3crn
 Date : 18 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	155
Cell pessure	2.00		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial deformation	Strain %				u	
		%			kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	42	0.548530694		
	80	1.067	0.989	60	0.779413587		
	120	1.600	0.984	71	0.917334078		
	160	2.133	0.979	85	1.092264459		
	200	2.667	0.973	98	1.252453909		
	240	3.200	0.968	108	1.372692286		
	280	3.733	0.963	116	1.466249927		
	320	4.267	0.957	125	1.571257176		
	360	4.800	0.952	130	1.625003800		
	400	5.333	0.947	139	1.727770147		
	440	5.867	0.941	145	1.792196068		
	480	6.400	0.936	150	1.843491706		
	520	6.933	0.931	154	1.881867146		
	560	7.467	0.925	156	1.895382583		
	600	8.000	0.920	155	1.872378328		
	640	8.533	0.915	154	1.849514129		
	680	9.067	0.909	155	1.850669594		
	720	9.600	0.904				
	760	10.133	0.899				
	800	10.667	0.893				
	840	11.200	0.888				
	880	11.733	0.883				
	920	12.267	0.877				
	960	12.800	0.872				
	1000	13.333	0.867				
	1040	13.867	0.861				
	1080	14.400	0.856				
	1120	14.933	0.851				
	1160	15.467	0.845				



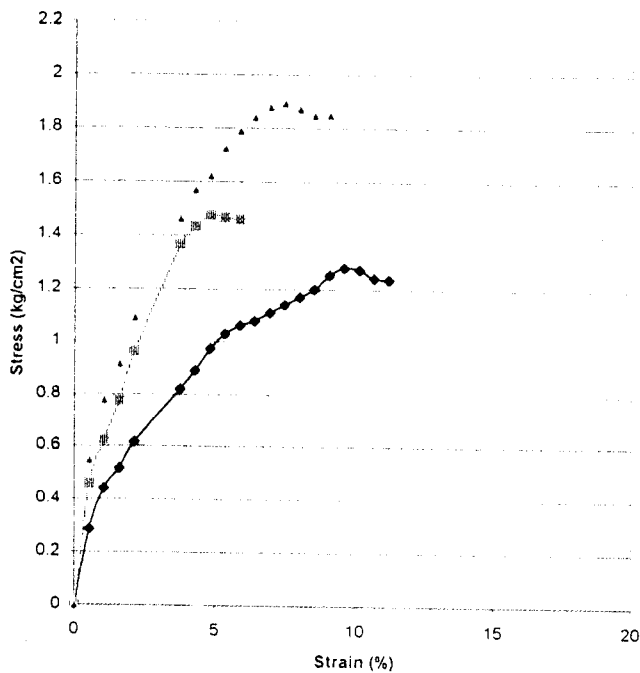
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TRIAXIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.7% Ijuk 3cm
 Date : 18 Mei 2004
 Tested by : Ujang + Mariza



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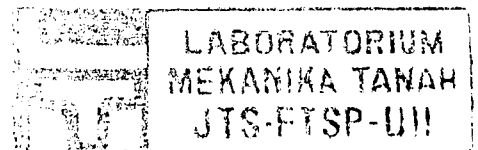
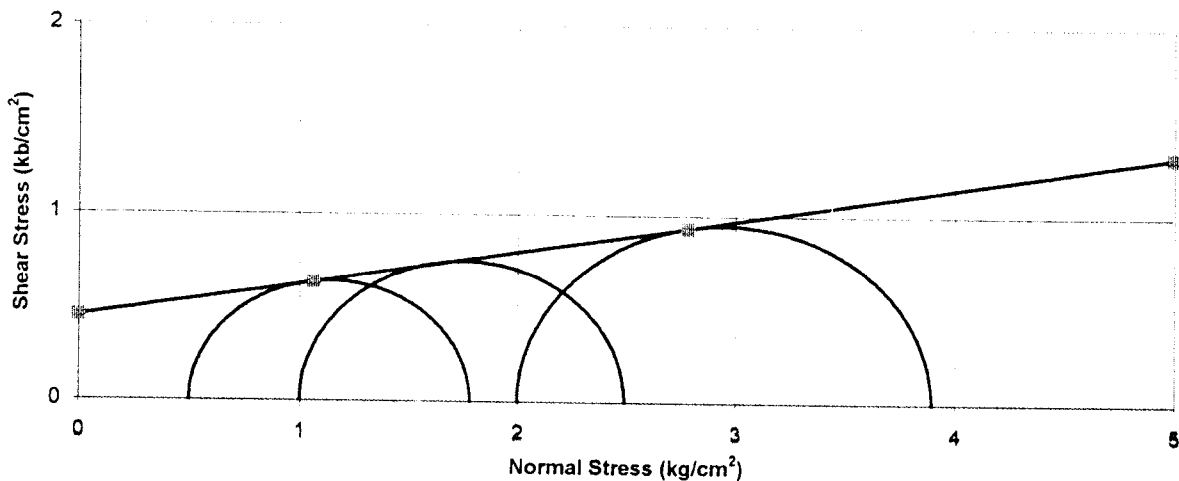
Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm ²	12.57	12.57	12.57
V cm ³	94.25	94.25	94.25
Wt gram	147.00	151.00	155.00

Water Content

Wt Container (cup), gr	21.60	22.00
Wt of Cup + Wet soil, gr	58.00	54.30
Wt of Cup + Dry soil, gr	46.15	44.00
Water Content %	48.27	46.82
Average water content %	47.54	

γ_d gram/cm ³	1.559718	1.60216	1.644601
γ gram/cm ³	1.057124	1.08589	1.114655

σ_3	0.5	1	2
$\Delta\sigma = P/A$	1.281936	1.494436	1.895383
$\sigma_1 = \Delta\sigma + \sigma_3$	1.781936	2.494436	3.895383
$(\sigma_1 + \sigma_3)/2$	1.140968	1.747218	2.947691
$(\sigma_1 - \sigma_3)/2$	0.640968	0.747218	0.947691
Angle of shearing resistance (ϕ)	9.798732		
Apperen cohesion (kg/cm ²)	0.452628		





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Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.013130		Wight	W gram	146
Cell pessusre	0.50		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial defor- mation	Strain %		u kg/cm ²	kg/cm ²
0	0	0	0	0	
	40	0.533	22	0.28732560	
	80	1.067	32	0.41568725	
	120	1.600	41	0.52972813	
	160	2.133	45	0.57825765	
	200	2.667	51	0.65178724	
	240	3.200	56	0.71176637	
	280	3.733	61	0.77104522	
	320	4.267	65	0.81705373	
	360	4.800	68	0.85000199	
	400	5.333	71	0.88253007	
	440	5.867	75	0.92699797	
	480	6.400	80	0.98319558	
	520	6.933	82	1.00203316	
	560	7.467	87	1.05704029	
	600	8.000	91	1.09926728	
	640	8.533	96	1.15294387	
	680	9.067	98	1.17010078	
	720	9.600	100	1.18697757	
	760	10.133	105	1.23897349	
	800	10.667	107	1.25507997	
	840	11.200	110	1.28256602	
	880	11.733	111	1.28645259	
	920	12.267	111	1.27867946	
	960	12.800	110	1.25945673	
	1000	13.333			
	1040	13.867			
	1080	14.400			
	1120	14.933			
	1160	15.467			



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TRIAxIAL COMPRESION TEST LOADING DATA

Project	: Tugas Akhir	Sampel	: Clay + 0.7% Ijuk 3cm
Location	: Salaman, Magelang, Jawa Tengah	Date	: 18 Mei 2004
Description of soi	: Clay	Tested by	: Ujang + Mariza

Type of test apparatus		Dimension of test piece	Height	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	151
Cell pessure	1.00		Rate of compression : 0.5%	Wet densit	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial defor- mation	Strain %				u	
					kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	31	0.40486789		
	80	1.067	0.989	45	0.58456019		
	120	1.600	0.984	52	0.67185031		
	160	2.133	0.979	58	0.74530987		
	200	2.667	0.973	65	0.83070923		
	240	3.200	0.968	68	0.86428774		
	280	3.733	0.963	72	0.91008616		
	320	4.267	0.957	76	0.95532436		
	360	4.800	0.952	82	1.02500240		
	400	5.333	0.947	87	1.08141009		
	440	5.867	0.941	91	1.12475753		
	480	6.400	0.936	96	1.17983469		
	520	6.933	0.931	100	1.22199165		
	560	7.467	0.925	104	1.26358839		
	600	8.000	0.920	110	1.32878462		
	640	8.533	0.915	115	1.38113068		
	680	9.067	0.909	120	1.43277646		
	720	9.600	0.904	124	1.47185218		
	760	10.133	0.899	127	1.49856793		
	800	10.667	0.893	130	1.52486351		
	840	11.200	0.888	131.2	1.52975148		
	880	11.733	0.883	131	1.51824585		
	920	12.267	0.877	130	1.49755252		
	960	12.800	0.872				
	1000	13.333	0.867				
	1040	13.867	0.861				
	1080	14.400	0.856				
	1120	14.933	0.851				
	1160	15.467	0.845				



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Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project	: Tugas Akhir	Sampel	: Clay + 0.7% Ijuk 3cm
Location	: Salaman, Magelang, Jawa Tengah	Date	: 18 Mei 2004
Description of soi	: Clay	Tested by	: Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	156
Cell pessure	2.00		Rate of compression : 0.5	Wet density	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial deformation	Strain %				u	
		%			kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	42	0.548530694		
	80	1.067	0.989	58	0.753433134		
	120	1.600	0.984	75	0.969014871		
	160	2.133	0.979	86	1.105114629		
	200	2.667	0.973	92	1.175773058		
	240	3.200	0.968	105	1.334561944		
	280	3.733	0.963	110	1.390409414		
	320	4.267	0.957	118	1.483266774		
	360	4.800	0.952	125	1.562503654		
	400	5.333	0.947	130	1.615900137		
	440	5.867	0.941	136	1.680956312		
	480	6.400	0.936	145	1.782041982		
	520	6.933	0.931	150	1.832987480		
	560	7.467	0.925	153	1.858932918		
	600	8.000	0.920	154	1.860298468		
	640	8.533	0.915	154	1.849514129		
	680	9.067	0.909	152	1.814850182		
	720	9.600	0.904				
	760	10.133	0.899				
	800	10.667	0.893				
	840	11.200	0.888				
	880	11.733	0.883				
	920	12.267	0.877				
	960	12.800	0.872				
	1000	13.333	0.867				
	1040	13.867	0.861				
	1080	14.400	0.856				
	1120	14.933	0.851				
	1160	15.467	0.845				



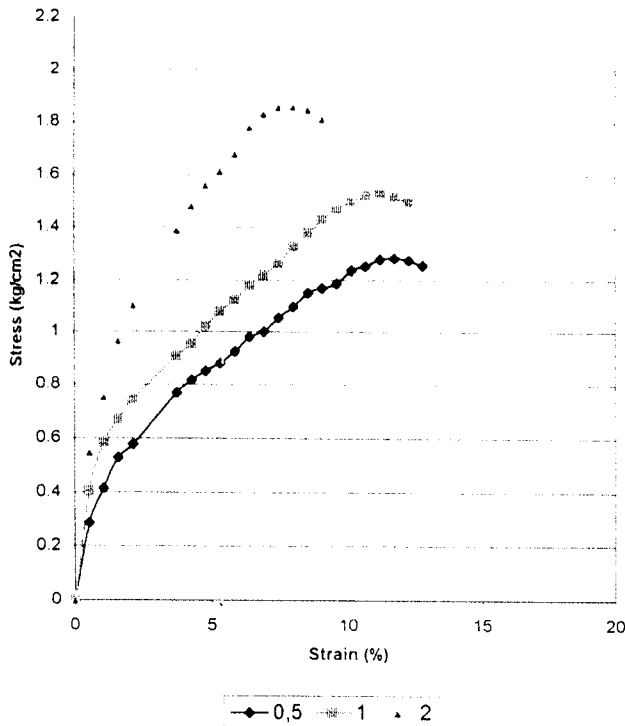
LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kallurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

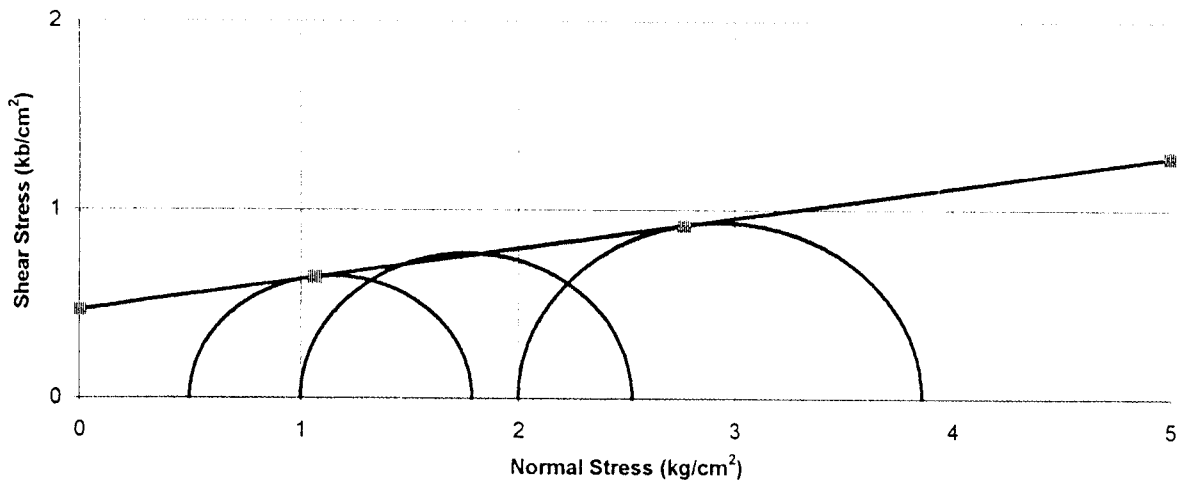
Sampel : Clay + 0.7% Ijuk 3cm
 Date : 18 Mei 2004
 Tested by : Ujang + Mariza



Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm ²	12.57	12.57	12.57
V cm ³	94.25	94.25	94.25
Wt gram	146.00	151.00	156.00
Water Content			
Wt Container (cup), gr	21.60	22.00	
Wt of Cup + Wet soil, gr	58.00	54.30	
Wt of Cup + Dry soil, gr	46.15	44.00	
Water Content %	48.27	46.82	
Average water content %	47.54		

γ_d gram/cm ³	1.549108	1.60216	1.655211
γ gram/cm ³	1.049933	1.08589	1.121846

σ_3	0.5	1	2
$\Delta\sigma = P/A$	1.286453	1.529751	1.860298
$\sigma_1 = \Delta\sigma + \sigma_3$	1.786453	2.529751	3.860298
$(\sigma_1 + \sigma_3)/2$	1.143226	1.764876	2.930149
$(\sigma_1 - \sigma_3)/2$	0.643226	0.764876	0.930149
Angle of shearing resistance (o)	9.253471		
Apperen cohesion (kg/cm ²)	0.464946		



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TRIAxIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay
 Sampel : Clay + 0.3% Ijuk 5cm
 Date : 22 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	154
Cell pessure	1.00		Rate of compression : 0.5%	Wet densit	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure
	Axial deformation	Strain %		
			kg/cm ²	kg/cm ²
0	0	0	0	0
	40	0.533	21	0.2742653
	80	1.067	32	0.41568725
	120	1.600	40	0.51680793
	160	2.133	50	0.64250851
	200	2.667	55	0.70290781
	240	3.200	60	0.76260683
	280	3.733	65	0.82160556
	320	4.267	69	0.86733396
	360	4.800	72	0.9000021
	400	5.333	75	0.93225008
	440	5.867	78	0.96407788
	480	6.400	81	0.99548552
	520	6.933	84	1.02647299
	560	7.467	86	1.0448904
	600	8.000	88	1.0630277
	640	8.533	90	1.08088488
	680	9.067	93	1.11040176
	720	9.600	95	1.12762869
	760	10.133	97	1.14457551
	800	10.667	98	1.14951249
	840	11.200	100	1.16596911
	880	11.733	101	1.17055596
	920	12.267	102	1.17500275
	960	12.800	103	1.17930948
	1000	13.333	104	1.18347616
	1040	13.867	105	1.18750278
	1080	14.400	103	1.15767077
	1120	14.933	102	1.13928838
	1160	15.467	102	1.1321455



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TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.3% Ijuk 5cm
 Date : 22 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Height	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	158
Cell pessure	2.00		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial defor- mation	Strain				u	
		%			kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	34	0.444048657		
	80	1.067	0.989	48	0.62353087		
	120	1.600	0.984	58	0.7493715		
	160	2.133	0.979	64	0.822410887		
	200	2.667	0.973	70	0.894609935		
	240	3.200	0.968	75	0.953258532		
	280	3.733	0.963	80	1.011206846		
	320	4.267	0.957	84	1.055884822		
	360	4.800	0.952	88	1.10002572		
	400	5.333	0.947	92	1.143560097		
	440	5.867	0.941	98	1.211277342		
	480	6.400	0.936	102	1.25357436		
	520	6.933	0.931	108	1.319750985		
	560	7.467	0.925	112	1.360787496		
	600	8.000	0.920	115	1.389183921		
	640	8.533	0.915	117	1.405150345		
	680	9.067	0.909	119	1.420836656		
	720	9.600	0.904	122	1.44811263		
	760	10.133	0.899	125	1.474968435		
	800	10.667	0.893	128	1.501404071		
	840	11.200	0.888	131	1.527419538		
	880	11.733	0.883	133	1.541425173		
	920	12.267	0.877	135	1.555150695		
	960	12.800	0.872	136	1.557146498		
	1000	13.333	0.867	139	1.581761402		
	1040	13.867	0.861	140	1.583337036		
	1080	14.400	0.856	138	1.551054047		
	1120	14.933	0.851	136	1.519051171		
	1160	15.467	0.845	135	1.498427874		



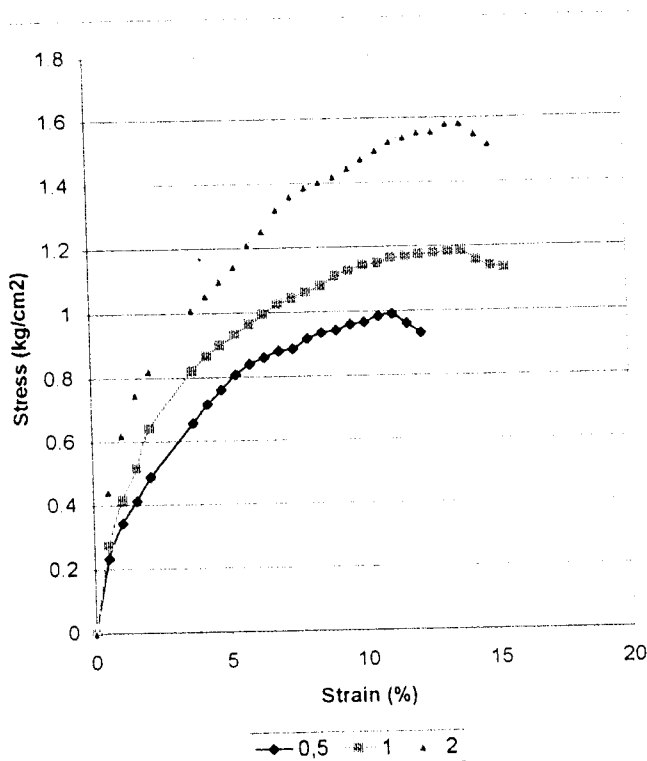
LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

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TRIAXIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

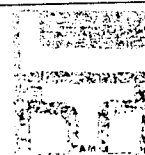
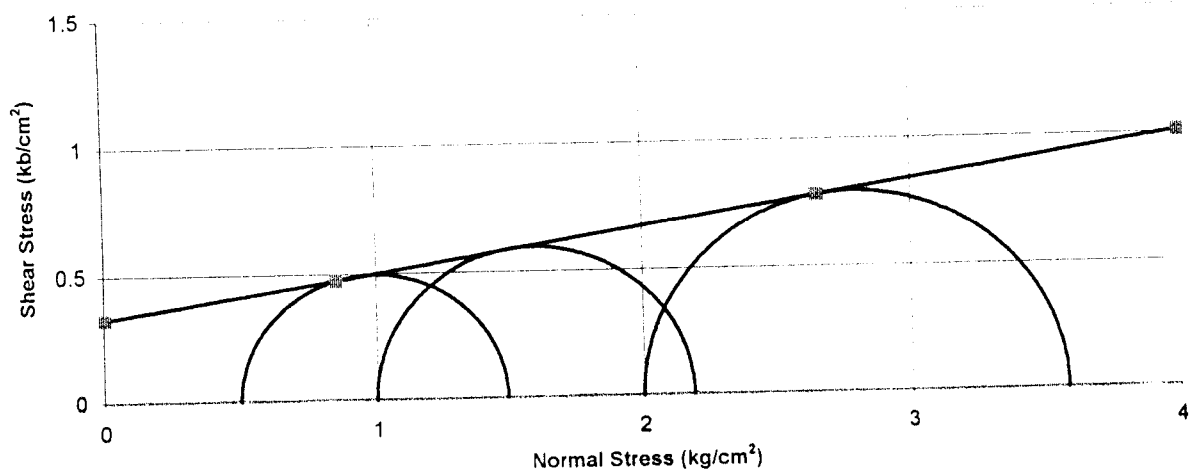
Sampel : Clay + 0.3% Ijuk 5cm
 Date : 22 Mei 2004
 Tested by : Ujang + Mariza



Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm²	12.57	12.57	12.57
V cm³	94.25	94.25	94.25
Wt gram	153.00	154.00	158.00
Water Content			
Wt Container (cup), gr	21.93	22.05	
Wt of Cup + Wet soil, gr	54.61	55.27	
Wt of Cup + Dry soil, gr	43.80	44.50	
Water Content %	49.43	47.97	
Average water content %	48.70		

γ_d gram/cm³	1.62338	1.633991	1.676432
γ_{sat} gram/cm³	1.091709	1.098844	1.127386

σ_3	0.5	1	2
$\Delta\sigma = P/A$	0.991074	1.187503	1.583337
$\sigma_1 = \Delta\sigma + \sigma_3$	1.491074	2.187503	3.583337
$(\sigma_1 + \sigma_3)/2$	0.995537	1.593751	2.791669
$(\sigma_1 - \sigma_3)/2$	0.495537	0.593751	0.791669
Angle of shearing resistance (ϕ)	9.621956		
Apperen cohesion (c) (kg/cm²)	0.329671		



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TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay

Sampel : Clay + 0.3% Ijuk 5cm
 Date : 22 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.013130		Wight	W gram	153
Cell pessure	0.50		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial deformation	Strain %		u	
				kg/cm ²	kg/cm ²
0	0	0	1	0	
	40	0.533	0.995	18	0.235084583
	80	1.067	0.989	26.5	0.344241001
	120	1.600	0.984	32	0.413446345
	160	2.133	0.979	38	0.488306464
	200	2.667	0.973	41	0.523985819
	240	3.200	0.968	50	0.635505688
	280	3.733	0.963	52	0.65728445
	320	4.267	0.957	57	0.716493272
	360	4.800	0.952	61	0.762501783
	400	5.333	0.947	65	0.807950069
	440	5.867	0.941	68	0.840478156
	480	6.400	0.936	70	0.860296129
	520	6.933	0.931	72	0.87983399
	560	7.467	0.925	74	0.899091738
	600	8.000	0.920	78	0.942229094
	640	8.533	0.915	81	0.972796392
	680	9.067	0.909	83	0.991003718
	720	9.600	0.904	85	1.008930931
	760	10.133	0.899	87	1.026578031
	800	10.667	0.893	90	1.055674738
	840	11.200	0.888	88	1.02605282
	880	11.733	0.883	86	0.996711014
	920	12.267	0.877	84	0.967649322
	960	12.800	0.872	83	0.950317348
	1000	13.333	0.867		
	1040	13.867	0.861		
	1080	14.400	0.856		
	1120	14.933	0.851		
	1160	15.467	0.845		



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

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TRIAXIAL COMPRESSION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.3% ijuk 5cm
 Date : 22 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	154
Cell pessure	1.00		Rate of compression : 0.5%	Wet densit	gr/cm ³

Time	Strain		Reading of proving ring	kg/cm ²	Pore pressure	
	Axial deformation	Strain %			u	kg/cm ²
0	0	0	1	0		
	40	0.533	0.995	21	0.2742653	
	80	1.067	0.989	32	0.41568725	
	120	1.600	0.984	40	0.51680793	
	160	2.133	0.979	50	0.64250851	
	200	2.667	0.973	55	0.70290781	
	240	3.200	0.968	60	0.76260683	
	280	3.733	0.963	64	0.80896548	
	320	4.267	0.957	68	0.8547639	
	360	4.800	0.952	70	0.87500205	
	400	5.333	0.947	72	0.89496008	
	440	5.867	0.941	75	0.92699797	
	480	6.400	0.936	78	0.95861569	
	520	6.933	0.931	81	0.98981324	
	560	7.467	0.925	84	1.02059062	
	600	8.000	0.920	87	1.05094784	
	640	8.533	0.915	90	1.08088488	
	680	9.067	0.909	92	1.09846195	
	720	9.600	0.904	95	1.12762869	
	760	10.133	0.899	98	1.15637525	
	800	10.667	0.893	101	1.18470165	
	840	11.200	0.888	104	1.21260788	
	880	11.733	0.883	106	1.22850427	
	920	12.267	0.877	108	1.24412056	
	960	12.800	0.872	111	1.27090633	
	1000	13.333	0.867	113	1.28589236	
	1040	13.867	0.861	115.5	1.30625305	
	1080	14.400	0.856	113	1.270066	
	1120	14.933	0.851	112	1.25098332	
	1160	15.467	0.845	111.2	1.23426059	



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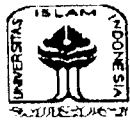
TRIAxIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay

Sampel : Clay + 0.3% Ijuk 5cm
 Date : 22 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	158
Cell pessure	2.00		Rate of compression : 0.5	Wet density	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial defor- mation	Strain				u	
		%			kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	34	0.444048657		
	80	1.067	0.989	48	0.623530870		
	120	1.600	0.984	60	0.775211897		
	160	2.133	0.979	69	0.886661737		
	200	2.667	0.973	78	0.996851071		
	240	3.200	0.968	82	1.042229328		
	280	3.733	0.963	90	1.137607702		
	320	4.267	0.957	100	1.257005741		
	360	4.800	0.952	108	1.350003157		
	400	5.333	0.947	114	1.417020120		
	440	5.867	0.941	117	1.446116827		
	480	6.400	0.936	120	1.474793365		
	520	6.933	0.931	125	1.527489566		
	560	7.467	0.925	128	1.555185710		
	600	8.000	0.920	133	1.606621404		
	640	8.533	0.915	135	1.621327321		
	680	9.067	0.909	138	1.647692929		
	720	9.600	0.904	140	1.661768592		
	760	10.133	0.899	143	1.687363890		
	800	10.667	0.893	145	1.700809299		
	840	11.200	0.888	147	1.713974596		
	880	11.733	0.883	149	1.726859780		
	920	12.267	0.877	151	1.739464852		
	960	12.800	0.872	154	1.763239417		
	1000	13.333	0.867	156	1.775214235		
	1040	13.867	0.861	158	1.786908940		
	1080	14.400	0.856	154	1.730886400		
	1120	14.933	0.851	153	1.708932568		
	1160	15.467	0.845	150	1.664919860		



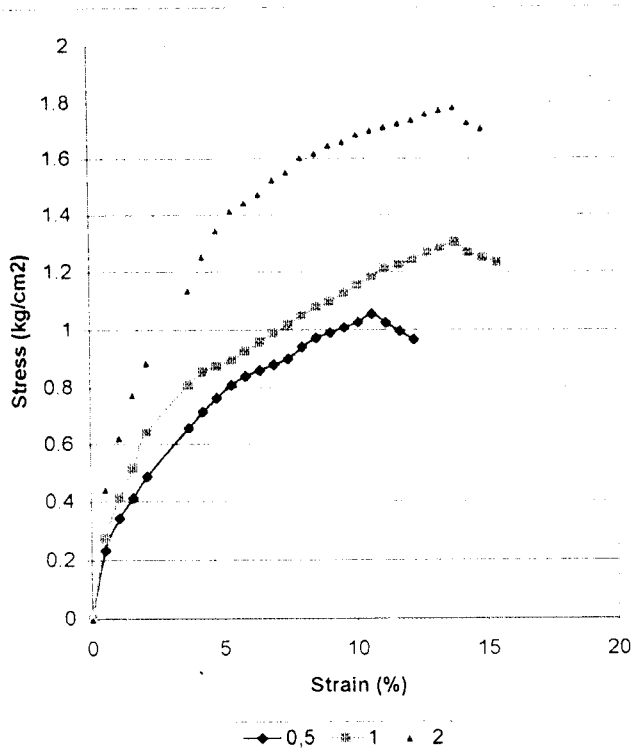
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TRIAXIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

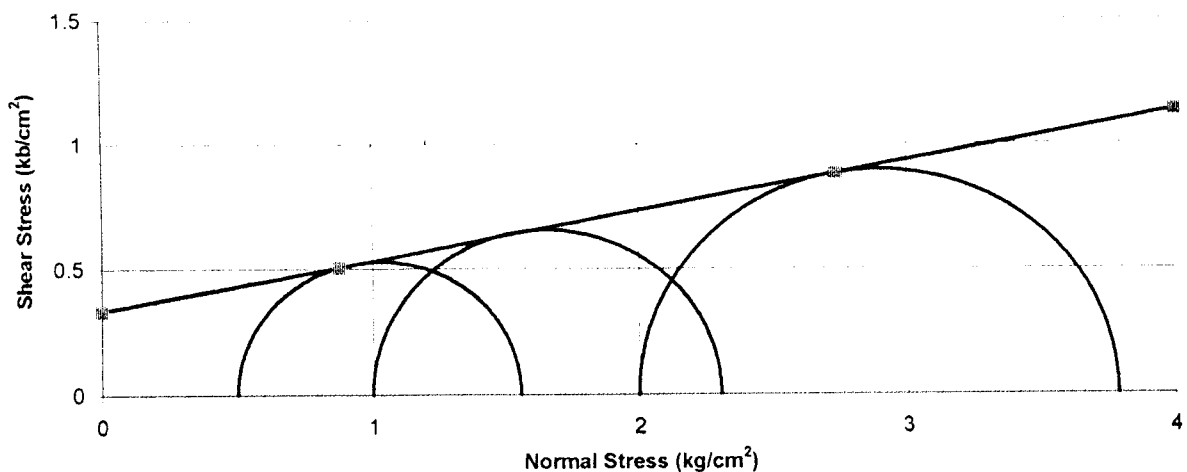
Sampel : Clay + 0.3% lijuk 5cm
 Date : 22 Mei 2004
 Tested by : Ujang + Mariza



Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm ²	12.57	12.57	12.57
V cm ³	94.25	94.25	94.25
Wt gram	153.00	154.00	158.00
Water Content			
Wt Container (cup), gr	21.80	21.70	
Wt of Cup + Wet soil, gr	43.40	41.00	
Wt of Cup + Dry soil, gr	36.35	34.75	
Water Content %	48.45	47.89	
Average water content %	48.17		

γ_d gram/cm ³	1.62338	1.633991	1.676432
γ_w gram/cm ³	1.095597	1.102758	1.131401

σ_3	0.5	1	2
$\Delta\sigma = P/A$	1.055675	1.306253	1.786909
$\sigma_1 = \Delta\sigma + \sigma_3$	1.555675	2.306253	3.786909
$(\sigma_1 + \sigma_3)/2$	1.027837	1.653127	2.893454
$(\sigma_1 - \sigma_3)/2$	0.527837	0.653127	0.893454
Angle of shearing resistance (ϕ)	11.37339		
Apperen cohesion (kg/cm ²)	0.329064		



LABORATORIUM
 MEKANIKA TANAH
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LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay
 Sampel : Clay 0.5% Ijuk 5cm
 Date : 26 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50	
No. Of cell			Diameter	D cm	4.00	
No. of Proving ring			Cross area	A cm ²	12.5664	
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478	
k = K / A	0.013130		Wight	W gram	148	
Cell pessure	0.50		Rate of compression : 0.5 %	Wet density	gr/cm ³	1.5703

Time	Strain			Reading of proving ring		Pore pressure	
	Axial deformation	Strain				u	
		%			kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	18	0.235084583		
	80	1.067	0.989	25	0.324755661		
	120	1.600	0.984	30	0.387605948		
	160	2.133	0.979	35	0.449755954		
	200	2.667	0.973	40	0.511205677		
	240	3.200	0.968	43	0.546534891		
	280	3.733	0.963	49	0.619364193		
	320	4.267	0.957	52	0.653642985		
	360	4.800	0.952	55	0.687501608		
	400	5.333	0.947	58	0.720940061		
	440	5.867	0.941	60	0.741598373		
	480	6.400	0.936	64	0.786556461		
	520	6.933	0.931	68	0.830954324		
	560	7.467	0.925	71	0.862642073		
	600	8.000	0.920	75	0.905989514		
	640	8.533	0.915	80	0.960786560		
	680	9.067	0.909	84	1.002943522		
	720	9.600	0.904	87	1.032670482		
	760	10.133	0.899	91	1.073777021		
	800	10.667	0.893	94	1.102593615		
	840	11.200	0.888	93	1.084351275		
	880	11.733	0.883	92	1.066248992		
	920	12.267	0.877	90	1.036767130		
	960	12.800	0.872				
	1000	13.333	0.867				
	1040	13.867	0.861				
	1080	14.400	0.856				
	1120	14.933	0.851				
	1160	15.467	0.845				



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

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TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay
 Sampel : Clay 0.5% Ijuk 5cm
 Date : 26 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	148
Cell pessure	1.00		Rate of compression : 0.5%	Wet densit	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial defor- mation	Strain %		u	
				kg/cm ²	kg/cm ²
0	0	0	1	0	0
	40	0.533	0.995	30	0.39180764
	80	1.067	0.989	38	0.49362861
	120	1.600	0.984	46	0.59432912
	160	2.133	0.979	52	0.66820885
	200	2.667	0.973	62	0.79236880
	240	3.200	0.968	68	0.86428774
	280	3.733	0.963	71	0.89744608
	320	4.267	0.957	79	0.99303454
	360	4.800	0.952	82	1.02500240
	400	5.333	0.947	90	1.11870009
	440	5.867	0.941	97	1.19891737
	480	6.400	0.936	100	1.22899447
	520	6.933	0.931	102	1.24643149
	560	7.467	0.925	107	1.30003805
	600	8.000	0.920	110	1.32878462
	640	8.533	0.915	112	1.34510118
	680	9.067	0.909	114	1.36113764
	720	9.600	0.904	112	1.32941487
	760	10.133	0.899	111	1.30977197
	800	10.667	0.893		
	840	11.200	0.888		
	880	11.733	0.883		
	920	12.267	0.877		
	960	12.800	0.872		
	1000	13.333	0.867		
	1040	13.867	0.861		
	1080	14.400	0.856		
	1120	14.933	0.851		
	1160	15.467	0.845		



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

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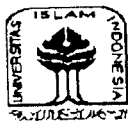
TRIAXIAL COMPRESSION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay

Sampel : Clay 0.5% Ijuk 5cm
 Date : 26 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	149
Cell pessure	2.00		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial defor- mation	Strain				u	
		%			kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	30	0.391807639		
	80	1.067	0.989	48	0.623530870		
	120	1.600	0.984	55	0.710610905		
	160	2.133	0.979	65	0.835261057		
	200	2.667	0.973	75	0.958510645		
	240	3.200	0.968	95	1.207460807		
	280	3.733	0.963	101	1.276648644		
	320	4.267	0.957	110	1.382706315		
	360	4.800	0.952	114	1.425003332		
	400	5.333	0.947	125	1.553750132		
	440	5.867	0.941	132	1.631516420		
	480	6.400	0.936	137	1.683722425		
	520	6.933	0.931	140	1.710788314		
	560	7.467	0.925	144	1.749583923		
	600	8.000	0.920	147	1.775739447		
	640	8.533	0.915	150	1.801474801		
	680	9.067	0.909	152	1.814850182		
	720	9.600	0.904	155	1.839815227		
	760	10.133	0.899	158	1.864360102		
	800	10.667	0.893	155	1.818106492		
	840	11.200	0.888	153	1.783932743		
	880	11.733	0.883				
	920	12.267	0.877				
	960	12.800	0.872				
	1000	13.333	0.867				
	1040	13.867	0.861				
	1080	14.400	0.856				
	1120	14.933	0.851				
	1160	15.467	0.845				



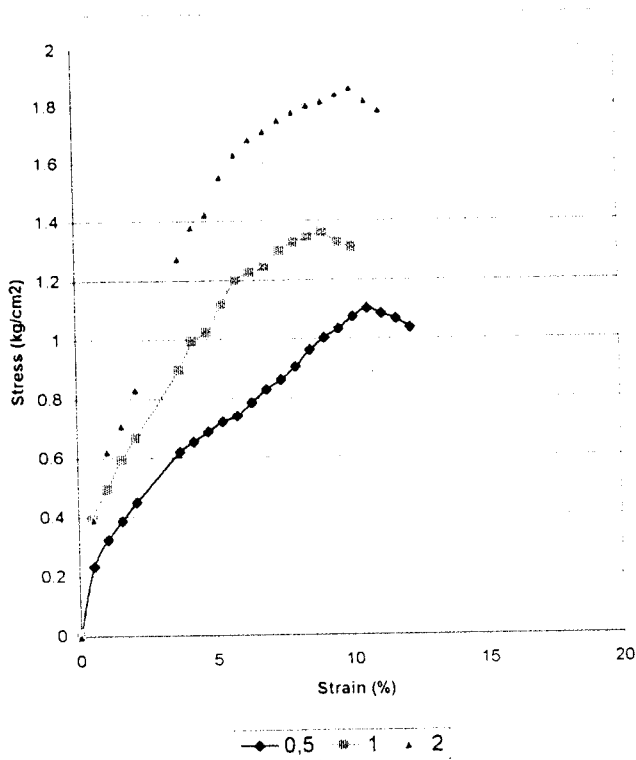
LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

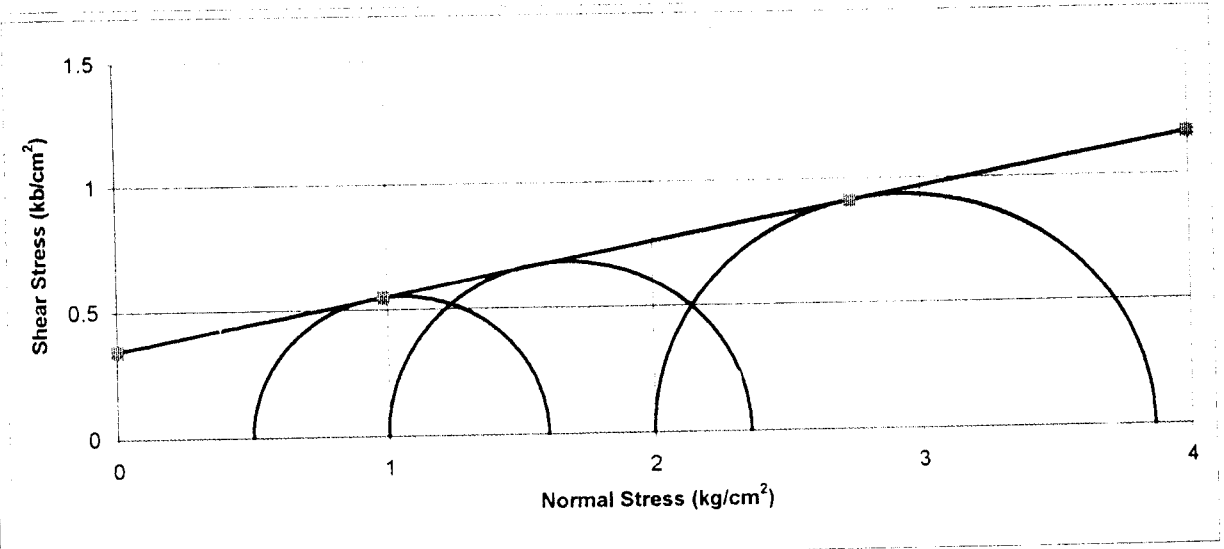
Sampel : Clay 0.5% Ijuk 5cm
 Date : 26 Mei 2004
 Tested by : Ujang + Mariza



Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm ²	12.57	12.57	12.57
V cm ³	94.25	94.25	94.25
Wt gram	148.00	148.00	149.00
Water Content			
Wt Container (cup), gr	22.30	22.50	
Wt of Cup + Wet soil, gr	71.62	86.10	
Wt of Cup + Dry soil, gr	56.10	66.70	
Water Content %	45.92	43.89	
Average water content %	44.90		

γ_d gram/cm ³	1.570329	1.570329	1.580939
γ gram/cm ³	1.083701	1.083701	1.091023

σ_3	0.5	1	2
$\Delta\sigma = P/A$	1.102594	1.361138	1.86436
$\sigma_1 = \Delta\sigma + \sigma_3$	1.602594	2.361138	3.86436
$(\sigma_1 + \sigma_3)/2$	1.051297	1.680569	2.93218
$(\sigma_1 - \sigma_3)/2$	0.551297	0.680569	0.93218
Angle of shearing resistance (ϕ)	11.74173		
Apperen cohesion (kg/cm ²)	0.34264		



LABORATORIUM
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LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESSION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay
 Sampel : Clay 0.5% Ijuk 5cm
 Date : 26 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Height	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.013130		Wight	W gram	146
Cell pesserure	0.50		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial defor- mation	Strain				u	
		%			kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	20	0.261205093		
	80	1.067	0.989	25	0.324755661		
	120	1.600	0.984	35	0.45220694		
	160	2.133	0.979	40	0.514006804		
	200	2.667	0.973	43	0.549546103		
	240	3.200	0.968	49	0.622795574		
	280	3.733	0.963	52	0.65728445		
	320	4.267	0.957	55	0.691353157		
	360	4.800	0.952	57	0.712501666		
	400	5.333	0.947	62	0.770660065		
	440	5.867	0.941	65	0.803398237		
	480	6.400	0.936	69	0.848006185		
	520	6.933	0.931	72	0.87983399		
	560	7.467	0.925	76	0.923391515		
	600	8.000	0.920	80	0.966388814		
	640	8.533	0.915	82	0.984806224		
	680	9.067	0.909	85	1.014883326		
	720	9.600	0.904	88	1.044540258		
	760	10.133	0.899	91	1.073777021		
	800	10.667	0.893	92	1.079134176		
	840	11.200	0.888	90	1.049372202		
	880	11.733	0.883	87	1.008300677		
	920	12.267	0.877	86	0.990688591		
	960	12.800	0.872				
	1000	13.333	0.867				
	1040	13.867	0.861				
	1080	14.400	0.856				
	1120	14.933	0.851				
	1160	15.467	0.845				



LABORATORIUM MEKANIK TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay
 Sampel : Clay 0.5% Ijuk 5cm
 Date : 26 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Height	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	148
Cell pessure	1.00		Rate of compression : 0.5%	Wet densit	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure		
	Axial deformation	Strain %				kg/cm ²	u	kg/cm ²
							kg/cm ²	
0	0	0	1	0	0			
	40	0.533	0.995	30	0.39180764			
	80	1.067	0.989	38	0.49362861			
	120	1.600	0.984	48	0.62016952			
	160	2.133	0.979	54	0.69390919			
	200	2.667	0.973	63	0.80514894			
	240	3.200	0.968	69	0.87699785			
	280	3.733	0.963	72	0.91008616			
	320	4.267	0.957	78	0.98046448			
	360	4.800	0.952	85	1.06250248			
	400	5.333	0.947	90	1.11870009			
	440	5.867	0.941	94	1.16183745			
	480	6.400	0.936	97	1.19212464			
	520	6.933	0.931	100	1.22199165			
	560	7.467	0.925	102	1.23928861			
	600	8.000	0.920	106	1.26046518			
	640	8.533	0.915	108	1.29706186			
	680	9.067	0.909	111	1.32531823			
	720	9.600	0.904	109	1.29380555			
	760	10.133	0.899	106	1.25077323			
	800	10.667	0.893					
	840	11.200	0.888					
	880	11.733	0.883					
	920	12.267	0.877					
	960	12.800	0.872					
	1000	13.333	0.867					
	1040	13.867	0.861					
	1080	14.400	0.856					
	1120	14.933	0.851					
	1160	15.467	0.845					



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay 0.5% Ijuk 5cm
 Date : 26 Mei 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	152
Cell pessure	2.00		Rate of compression : 0.5	Wet density	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial defor- mation	Strain		u	
		%		kg/cm ²	kg/cm ²
0	0	0	1	0	
	40	0.533	0.995	35	0.457108912
	80	1.067	0.989	52	0.675491776
	120	1.600	0.984	65	0.839812888
	160	2.133	0.979	78	1.002313268
	200	2.667	0.973	84	1.073531922
	240	3.200	0.968	95	1.207460807
	280	3.733	0.963	100	1.264008558
	320	4.267	0.957	105	1.319856028
	360	4.800	0.952	110	1.375003215
	400	5.333	0.947	113	1.404590119
	440	5.867	0.941	117	1.446116827
	480	6.400	0.936	120	1.474793365
	520	6.933	0.931	125	1.527489566
	560	7.467	0.925	127	1.543035821
	600	8.000	0.920	130	1.570381823
	640	8.533	0.915	134	1.609317489
	680	9.067	0.909	136	1.623813321
	720	9.600	0.904	139	1.649898816
	760	10.133	0.899	141	1.663764395
	800	10.667	0.893	145	1.700809299
	840	11.200	0.888	148	1.725634287
	880	11.733	0.883	150	1.738449443
	920	12.267	0.877	149	1.716425582
	960	12.800	0.872	148	1.694541778
	1000	13.333	0.867		
	1040	13.867	0.861		
	1080	14.400	0.856		
	1120	14.933	0.851		
	1160	15.467	0.845		



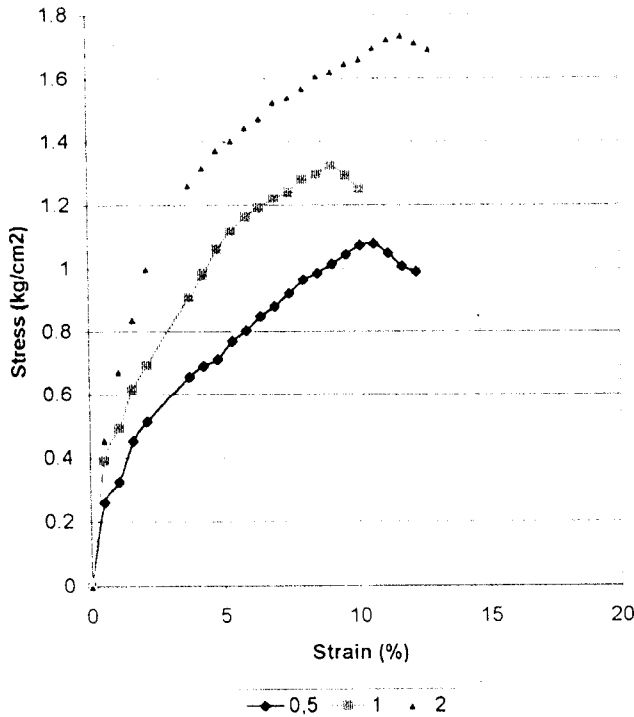
LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kallurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAxIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay 0.5% Ijuk 5cm
 Date : 26 Mei 2004
 Tested by : Ujang + Mariza

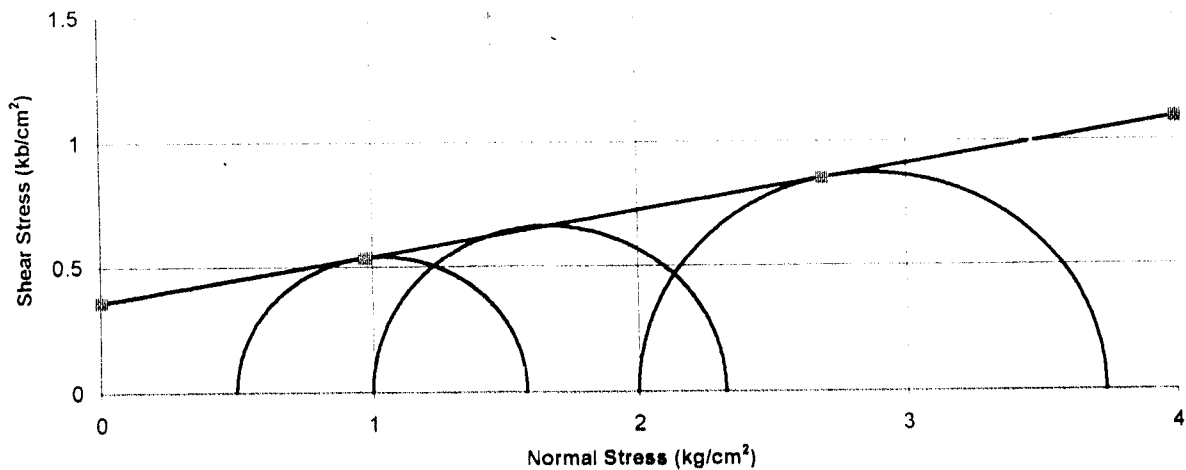


Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm ²	12.57	12.57	12.57
V cm ³	94.25	94.25	94.25
Wt gram	146.00	148.00	152.00

Water Content		
Wt Container (cup), gr	22.00	21.95
Wt of Cup + Wet soil, gr	71.50	85.00
Wt of Cup + Dry soil, gr	56.20	66.00
Water Content %	44.74	43.13
Average water content %	43.93	

γ_d gram/cm ³	1.549108	1.570329	1.61277
γ gram/cm ³	1.076257	1.091	1.120486

σ_3	0.5	1	2
$\Delta\sigma = P/A$	1.079134	1.325318	1.738449
$\sigma_1 = \Delta\sigma + \sigma_3$	1.579134	2.325318	3.738449
$(\sigma_1 + \sigma_3)/2$	1.039567	1.662659	2.869225
$(\sigma_1 - \sigma_3)/2$	0.539567	0.662659	0.869225
Angle of shearing resistance (ϕ)	10.39935		
Apperen cohesion (kg/cm ²)	0.356829		



UNIVERSITAS ISLAM INDONESIA
 LABORATORIUM MEKANIKA TANAH
 SALAMAN, MAGELANG, JAWA TENGAH



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of sci : Clay

Sampel : Clay + 0.7% Ijuk 5cm
 Date : 1 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.013130		Wight	W gram	148.00
Cell pessure	0.50	Rate of compression : 0.5 %	Wet density	gr/cm ³	1.5703

Time	Strain			Reading of proving ring		Pore pressure	
	Axial defor- mation	Strain %				u	
					kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	9	0.117542292		
	80	1.067	0.989	21	0.272794756		
	120	1.600	0.984	27	0.348845354		
	160	2.133	0.979	32	0.411205443		
	200	2.667	0.973	36	0.460085109		
	240	3.200	0.968	40	0.50840455		
	280	3.733	0.963	45	0.568803851		
	320	4.267	0.957	48	0.603362755		
	360	4.800	0.952	52	0.65000152		
	400	5.333	0.947	58	0.720940061		
	440	5.867	0.941	63	0.778678291		
	480	6.400	0.936	68	0.83571624		
	520	6.933	0.931	71	0.867614074		
	560	7.467	0.925	76	0.923391515		
	600	8.000	0.920	75	0.905989514		
	640	8.533	0.915	73	0.876717736		
	680	9.067	0.909	71	0.847726072		
	720	9.600	0.904	69	0.81901452		
	760	10.133	0.899	67	0.790583081		
	800	10.667	0.893	65	0.762431755		
	840	11.200	0.888	63	0.734560541		
	880	11.733	0.883	98	1.13578697		
	920	12.267	0.877	59	0.679658452		
	960	12.800	0.872	57	0.652627577		
	1000	13.333	0.867				
	1040	13.867	0.861				
	1080	14.400	0.856				
	1120	14.933	0.851				
	1160	15.467	0.845				



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.7% Ijuk 5cm
 Date : 1 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	152.00
Cell pessure	1.00		Rate of compression : 0.5%	Wet density	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial deformation	Strain %		u	
				kg/cm ²	kg/cm ²
0	0	0	1	0	
	40	0.533	0.995	19	0.2481448
	80	1.067	0.989	32	0.415687247
	120	1.600	0.984	39	0.503887733
	160	2.133	0.979	46	0.591107825
	200	2.667	0.973	48	0.613446813
	240	3.200	0.968	56	0.71176637
	280	3.733	0.963	68	0.859525819
	320	4.267	0.957	75	0.942754305
	360	4.800	0.952	80	1.000002338
	400	5.333	0.947	85	1.05655009
	440	5.867	0.941	89	1.100037586
	480	6.400	0.936	92	1.130674913
	520	6.933	0.931	96	1.173111987
	560	7.467	0.925	98	1.190689059
	600	8.000	0.920	103	1.244225599
	640	8.533	0.915	107	1.285052025
	680	9.067	0.909	110	1.313378421
	720	9.600	0.904	113	1.341284649
	760	10.133	0.899	115	1.35697096
	800	10.667	0.893	113	1.325458282
	840	11.200	0.888	112	1.305885407
	880	11.733	0.883	110	1.274862925
	920	12.267	0.877		
	960	12.800	0.872		
	1000	13.333	0.867		
	1040	13.867	0.861		
	1080	14.400	0.856		
	1120	14.933	0.851		
	1160	15.467	0.845		



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAxIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay

Sampel : Clay + 0.7% Ijuk 5cm
 Date : 1 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Height	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	150.00
Cell pessure	2.00	Rate of compression : 0.5 %	Wet density	gr/cm ³	1.5915

Time	Strain		Reading of proving ring	Pore pressure		
	Axial defor- mation	Strain %		u	kg/cm ²	kg/cm ²
0	0	0	1	0	0	
	40	0.533	0.995	27	0.352626875	
	80	1.067	0.989	38	0.493628605	
	120	1.600	0.984	50	0.646009914	
	160	2.133	0.979	65	0.835261057	
	200	2.667	0.973	75	0.958510645	
	240	3.200	0.968	87	1.105779897	
	280	3.733	0.963	93	1.175527959	
	320	4.267	0.957	98	1.231865626	
	360	4.800	0.952	102	1.275002982	
	400	5.333	0.947	106	1.317580112	
	440	5.867	0.941	110	1.359597017	
	480	6.400	0.936	114	1.401053696	
	520	6.933	0.931	118	1.441950151	
	560	7.467	0.925	120	1.457986603	
	600	8.000	0.920	124	1.497902662	
	640	8.533	0.915	127	1.525248665	
	680	9.067	0.909	132	1.576054106	
	720	9.600	0.904	137	1.626159265	
	760	10.133	0.899	140	1.651964647	
	800	10.667	0.893	142	1.665620141	
	840	11.200	0.888	146	1.702314905	
	880	11.733	0.883	148	1.715270117	
	920	12.267	0.877	152	1.750984487	
	960	12.800	0.872	155	1.774689024	
	1000	13.333	0.867	158	1.797973392	
	1040	13.867	0.861	155	1.752980290	
	1080	14.400	0.856	153	1.719646878	
	1120	14.933	0.851	151	1.686593580	
	1160	15.467	0.845	150	1.664919860	



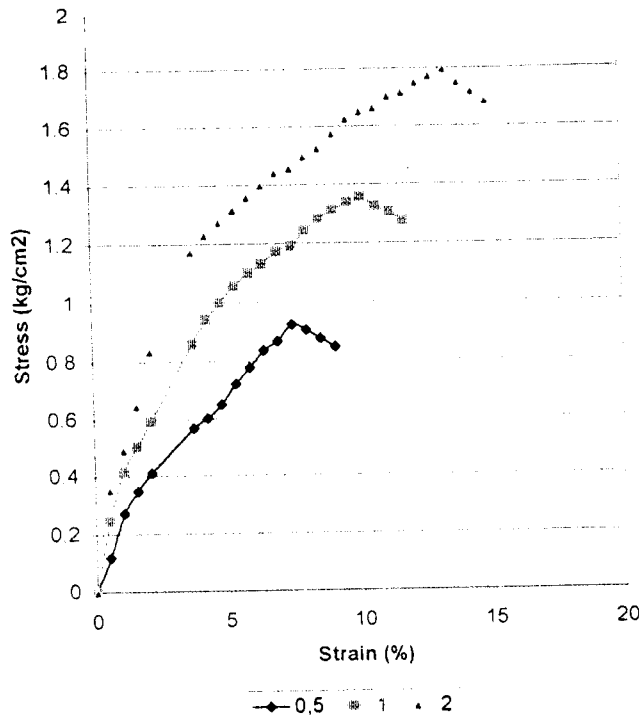
LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kallurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

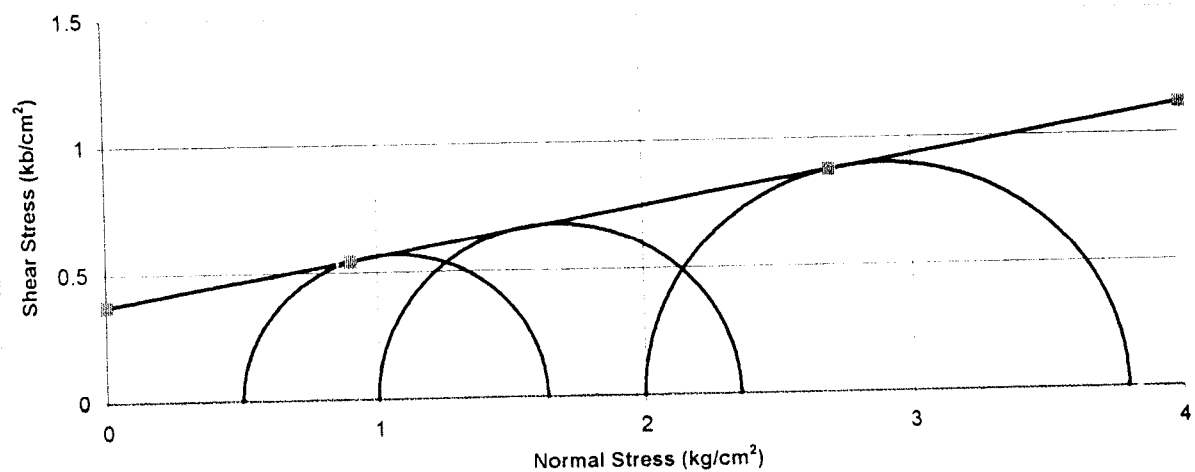
Sampel : Clay + 0.7% Ijuk 5cm
 Date : 1 Juni 2004
 Tested by : Ujang + Mariza



Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm ²	12.57	12.57	12.57
V cm ³	94.25	94.25	94.25
Wt gram	148.00	152.00	150.00
Water Content			
Wt Container (cup), gr	21.50	22.32	
Wt of Cup + Wet soil, gr	57.60	57.00	
Wt of Cup + Dry soil, gr	46.35	45.80	
Water Content %	45.27	47.70	
Average water content %	46.49		

γ_d gram/cm ³	1.570329	1.61277	1.591549
γ gram/cm ³	1.072	1.100973	1.086486

σ_3	0.5	1	2
$\Delta\sigma = P/A$	1.135787	1.356971	1.797973
$\sigma_1 = \Delta\sigma + \sigma_3$	1.635787	2.356971	3.797973
$(\sigma_1 + \sigma_3)/2$	1.067893	1.678485	2.898987
$(\sigma_1 - \sigma_3)/2$	0.567893	0.678485	0.898987
Angle of shearing resistance (o)			10.50621
Apperen cohesion (kg/cm ²)			0.375829



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FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
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Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.7% Ijuk 5cm
 Date : 1 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Height	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.013130		Wight	W gram	150.00
Cell pessure	0.50		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain			Reading of proving ring	Pore pressure	
	Axial defor- mation	Strain %			u kg/cm ²	kg/cm ²
0	0	0	1	0	0	
	40	0.533	0.995	11	0.143662801	
	80	1.067	0.989	25	0.324755661	
	120	1.600	0.984	31	0.400526147	
	160	2.133	0.979	35	0.449755954	
	200	2.667	0.973	36	0.460085109	
	240	3.200	0.968	45	0.571955119	
	280	3.733	0.963	50	0.632004279	
	320	4.267	0.957	55	0.691353157	
	360	4.800	0.952	58	0.725001695	
	400	5.333	0.947	62	0.770660065	
	440	5.867	0.941	65	0.803398237	
	480	6.400	0.936	68	0.835716240	
	520	6.933	0.931	71	0.867614074	
	560	7.467	0.925	75	0.911241627	
	600	8.000	0.920	76	0.918069374	
	640	8.533	0.915	78	0.936766896	
	680	9.067	0.909	80	0.955184306	
	720	9.600	0.904	82	0.973321604	
	760	10.133	0.899	84	0.991178788	
	800	10.667	0.893	86	1.008755860	
	840	11.200	0.888	90	1.049372202	
	880	11.733	0.883	95	1.101017981	
	920	12.267	0.877	97	1.117404574	
	960	12.800	0.872	98	1.122061447	
	1000	13.333	0.867	96	1.092439529	
	1040	13.867	0.861	95	1.074407274	
	1080	14.400	0.856			
	1120	14.933	0.851			
	1160	15.467	0.845			



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 095330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay

Sampel : Clay + 0.7% Ijuk 5cm
 Date : 1 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	155.00
Cell pessure	1.00	Rate of compression : 0.5%	Wet densit	gr/cm ³	1.6446

Time	Strain		Reading of proving ring	kg/cm ²	Pore pressure	
	Axial defor- mation	Strain %			u kg/cm ²	kg/cm ²
0	0	0	1	0		
	40	0.533	0.995	19	0.24814484	
	80	1.067	0.989	32	0.41568725	
	120	1.600	0.984	39	0.50388773	
	160	2.133	0.979	46	0.59110782	
	200	2.667	0.973	48	0.61344681	
	240	3.200	0.968	56	0.71176637	
	280	3.733	0.963	60	0.75840513	
	320	4.267	0.957	65	0.81705373	
	360	4.800	0.952	70	0.87500205	
	400	5.333	0.947	75	0.93225008	
	440	5.867	0.941	81	1.00115780	
	480	6.400	0.936	84	1.03235536	
	520	6.933	0.931	87	1.06313274	
	560	7.467	0.925	90	1.09348995	
	600	8.000	0.920	92	1.11134714	
	640	8.533	0.915	96	1.15294387	
	680	9.067	0.909	100	1.19398038	
	720	9.600	0.904	103	1.22258689	
	760	10.133	0.899	107	1.26257298	
	800	10.667	0.893	110	1.29026912	
	840	11.200	0.888	113	1.31754510	
	880	11.733	0.883	116	1.34440090	
	920	12.267	0.877	118	1.35931690	
	960	12.800	0.872	117	1.33960397	
	1000	13.333	0.867	115	1.30865152	
	1040	13.867	0.861			
	1080	14.400	0.856			
	1120	14.933	0.851			
	1160	15.467	0.845			



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay
 Sampel : Clay + 0.7% Ijuk 5cm
 Date : 1 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Height	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coef. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	156.00
Cell pessure	2.00		Rate of compression : 0.5	Wet density	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial defor mation	Strain				u	
		%			kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	30	0.391807639		
	80	1.067	0.989	40	0.519609058		
	120	1.600	0.984	48	0.620169517		
	160	2.133	0.979	58	0.745309866		
	200	2.667	0.973	61	0.779588658		
	240	3.200	0.968	78	0.991388873		
	280	3.733	0.963	88	1.112327531		
	320	4.267	0.957	95	1.194155454		
	360	4.800	0.952	100	1.250002923		
	400	5.333	0.947	107	1.330010113		
	440	5.867	0.941	112	1.384316963		
	480	6.400	0.936	116	1.425633586		
	520	6.933	0.931	121	1.478609900		
	560	7.467	0.925	129	1.567335598		
	600	8.000	0.920	134	1.618701264		
	640	8.533	0.915	137	1.645346985		
	680	9.067	0.909	140	1.671572536		
	720	9.600	0.904	143	1.697377919		
	760	10.133	0.899	146	1.722763132		
	800	10.667	0.893	148	1.735998457		
	840	11.200	0.888	152	1.772273052		
	880	11.733	0.883	155	1.796397758		
	920	12.267	0.877	158	1.820102295		
	960	12.800	0.872	161	1.843386664		
	1000	13.333	0.867	163	1.854871284		
	1040	13.867	0.861	165	1.866075792		
	1080	14.400	0.856	160	1.798323533		
	1120	14.933	0.851	158	1.764780037		
	1160	15.467	0.845	155	1.720417188		



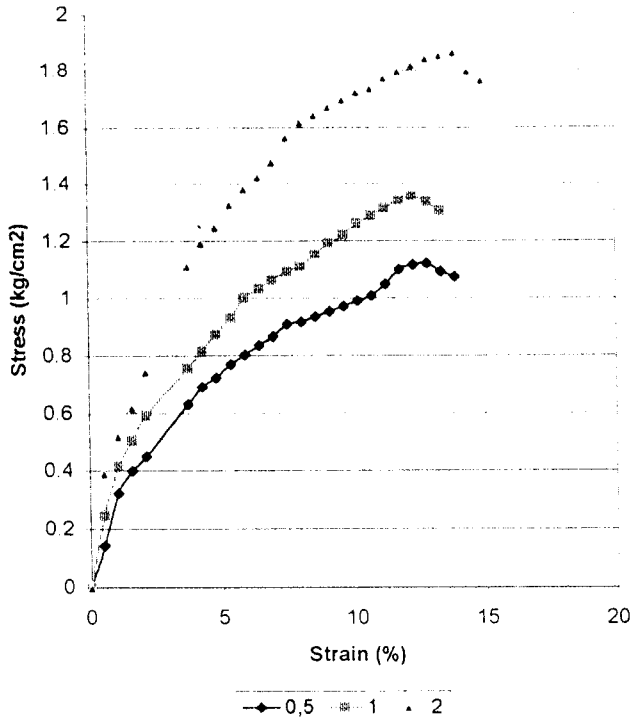
LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kallurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.7% Ijuk 5cm
 Date : 1 Juni 2004
 Tested by : Ujang + Mariza

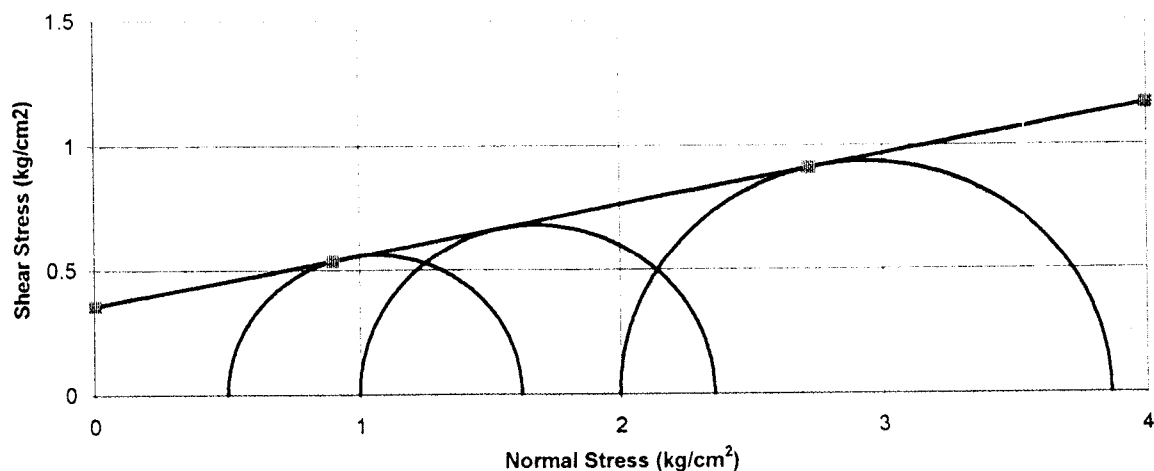


Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm ²	12.57	12.57	12.57
V cm ³	94.25	94.25	94.25
Wt gram	150.00	155.00	156.00

Water Content	
Wt Container (cup), gr	22.15 21.95
Wt of Cup + Wet soil, gr	48.50 48.43
Wt of Cup + Dry soil, gr	40.05 40.05
Water Content %	47.21 46.30
Average water content %	46.75

γ_d gram/cm ³	1.591549	1.644601	1.655211
γ gram/cm ³	1.084512	1.120663	1.127893

σ_3	0.5	1	2
$\Delta\sigma = P/A$	1.122061	1.359317	1.866076
$\sigma_1 = \Delta\sigma + \sigma_3$	1.622061	2.359317	3.866076
$(\sigma_1 + \sigma_3)/2$	1.061031	1.679658	2.933038
$(\sigma_1 - \sigma_3)/2$	0.561031	0.679658	0.933038
Angle of shearing resistance (o)	11.53234		
Apperen cohesion (kg/cm ²)	0.353492		



LABORATORIUM
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 Yogyakarta, 10/06/2004



LABORATORIUM MEKANIK TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAxIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay
 Sampel : Clay + 0.5% Ijuk 3cm + 2% Lime
 Date : 6 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.013130		Wight	W gram	148.00
Cell pessure	0.50		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial deformation	Strain %				u	
					kg/cm ²	kg/cm ²	
0	0	0	1	0	0		
	40	0.533	0.995	12	0.156723056		
	80	1.067	0.989	20	0.259804529		
	120	1.600	0.984	25	0.323004957		
	160	2.133	0.979	29	0.372654933		
	200	2.667	0.973	33	0.421744684		
	240	3.200	0.968	36	0.457564095		
	280	3.733	0.963	39	0.492963338		
	320	4.267	0.957	41	0.515372354		
	360	4.800	0.952	43.5	0.543751272		
	400	5.333	0.947	45.5	0.565565048		
	440	5.867	0.941	47	0.580918725		
	480	6.400	0.936	49	0.602207291		
	520	6.933	0.931	52	0.635435660		
	560	7.467	0.925	54	0.656093971		
	600	8.000	0.920	60	0.724791611		
	640	8.533	0.915	64	0.768629248		
	680	9.067	0.909	65	0.776087249		
	720	9.600	0.904	68	0.807144745		
	760	10.133	0.899	70	0.825982324		
	800	10.667	0.893	71	0.832810071		
	840	11.200	0.888	75	0.874476835		
	880	11.733	0.883	78	0.903993711		
	920	12.267	0.877	81	0.933090417		
	960	12.800	0.872	84	0.961766955		
	1000	13.333	0.867	85	0.967264167		
	1040	13.867	0.861	87	0.983930872		
	1080	14.400	0.856	90	1.011556987		
	1120	14.933	0.851	89	0.994084958		
	1160	15.467	0.845	85	0.943454587		



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.5% Ijuk 3cm + 2% Lime
 Date : 6 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	150.00
Cell pessure	1.00		Rate of compression : 0.5%	Wet densit	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial defor- mation	Strain %		u	kg/cm ²
0	0	0	0	0	
	40	0.533	18	0.2350846	
	80	1.067	25	0.32475566	
	120	1.600	35	0.45220694	
	160	2.133	49	0.62965834	
	200	2.667	60	0.76680852	
	240	3.200	61	0.77531694	
	280	3.733	65	0.82160556	
	320	4.267	70	0.87990402	
	360	4.800	71	0.88750208	
	400	5.333	74	0.91982008	
	440	5.867	77	0.95171791	
	480	6.400	80	0.98319558	
	520	6.933	81	0.98981324	
	560	7.467	84	1.02059062	
	600	8.000	87	1.05094784	
	640	8.533	90	1.08088488	
	680	9.067	93	1.11040176	
	720	9.600	96	1.13949846	
	760	10.133	97	1.14457551	
	800	10.667	100	1.17297193	
	840	11.200	102	1.1892885	
	880	11.733	104	1.20532495	
	920	12.267	105	1.20956165	
	960	12.800	103	1.17930948	
	1000	13.333	103	1.17209658	
	1040	13.867			
	1080	14.400			
	1120	14.933			
	1160	15.467			



LABORATORIUM MEKANIKA TANAH
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TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.5% Ijuk 3cm + 2% Lime
 Date : 6 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Height	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	Wv gram	154.00
Cell pessure	2.00		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial defor- mation	Strain %		u	kg/cm ²
0	0	0	0	0	0
	40	0.533	19	0.248144838	
	80	1.067	30	0.389706794	
	120	1.600	50	0.646009914	
	160	2.133	60	0.771010206	
	200	2.667	76	0.971290787	
	240	3.200	79	1.004098987	
	280	3.733	82	1.036487018	
	320	4.267	88	1.106165052	
	360	4.800	90	1.125002631	
	400	5.333	95	1.180850100	
	440	5.867	100	1.235997288	
	480	6.400	103	1.265864305	
	520	6.933	105	1.283091236	
	560	7.467	108	1.312187942	
	600	8.000	112	1.352944340	
	640	8.533	115	1.381130681	
	680	9.067	118	1.408896852	
	720	9.600	120	1.424373079	
	760	10.133	122	1.439569193	
	800	10.667	125	1.466214913	
	840	11.200	127	1.480780774	
	880	11.733	130	1.506656184	
	920	12.267	133	1.532111426	
	960	12.800	134	1.534247285	
	1000	13.333	137	1.559002245	
	1040	13.867	138	1.560717935	
	1080	14.400	135	1.517335481	
	1120	14.933	135	1.507881677	
	1160	15.467	132	1.465129477	



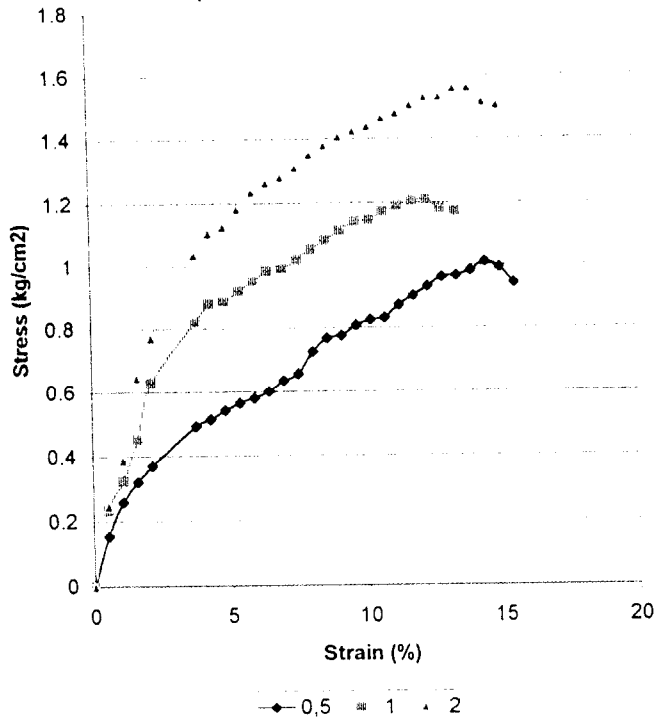
LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

Sampel : Clay + 0.5% Ijuk 3cm + 2% Lime
 Date : 6 Juni 2004
 Testeo by : Ujang + Mariza

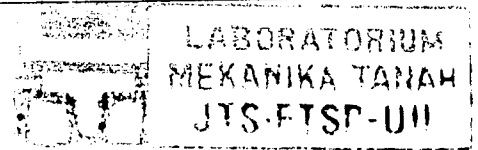
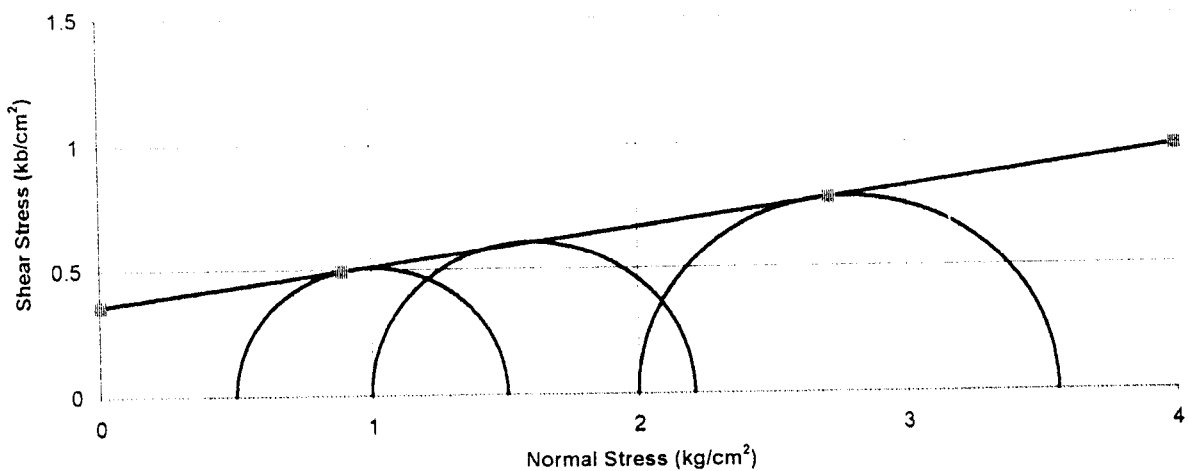


Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm ²	12.57	12.57	12.57
V cm ³	94.25	94.25	94.25
Wt gram	148.00	150.00	154.00

Water Content	
Wt Container (cup), gr	21.28 21.65
Wt of Cup + Wet soil, gr	58.60 60.25
Wt of Cup + Dry soil, gr	46.75 48.45
Water Content %	46.53 44.03
Average water content %	45.28

γ_d gram/cm ³	1.570329	1.591549	1.633991
γ gram/cm ³	1.080916	1.095523	1.124737

σ_3	0.5	1	2
$\Delta\sigma = P/A$	1.011557	1.209562	1.560718
$\sigma_1 = \Delta\sigma + \sigma_3$	1.511557	2.209562	3.560718
$(\sigma_1 + \sigma_3)/2$	1.005778	1.604781	2.780359
$(\sigma_1 - \sigma_3)/2$	0.505778	0.604781	0.780359
Angle of shearing resistance (ϕ)			8.885127
Apperen cohesion (kg/cm ²)			0.353369





LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay

Sampel : Clay + 0.5% Ijuk 3cm + 2% Lime
 Date : 6 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.013130		Wight	W gram	150.00
Cell pssure	0.50		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial deformation	Strain %		u	kg/cm ²
0	0	0	1	0	0
	40	0.533	0.995	12	0.156723056
	80	1.067	0.989	20	0.259804529
	120	1.600	0.984	25	0.323004957
	160	2.133	0.979	29	0.372654933
	200	2.667	0.973	33	0.421744684
	240	3.200	0.968	39	0.495694436
	280	3.733	0.963	42	0.530883594
	320	4.267	0.957	45	0.565652583
	360	4.800	0.952	47	0.587501374
	400	5.333	0.947	49	0.609070052
	440	5.867	0.941	53.5	0.661258549
	480	6.400	0.936	55	0.675946959
	520	6.933	0.931	57	0.696535242
	560	7.467	0.925	59	0.716843413
	600	8.000	0.920	60	0.724791611
	640	8.533	0.915	62	0.744609584
	680	9.067	0.909	64	0.764147445
	720	9.600	0.904	68	0.807144745
	760	10.133	0.899	72	0.849581819
	800	10.667	0.893	75	0.879728948
	840	11.200	0.888	78	0.909455908
	880	11.733	0.883	79	0.915583374
	920	12.267	0.877	80	0.921570782
	960	12.800	0.872	81.5	0.933142938
	1000	13.333	0.867	82	0.933125431
	1040	13.867	0.861	82	0.927383121
	1080	14.400	0.856	80	0.899161766
	1120	14.933	0.851	79	0.882390019
	1160	15.467	0.845	78	0.865758327



LABORATORIUM MEKANIKA TANAH
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UNIVERSITAS ISLAM INDONESIA

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TRIAxIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay

Sampel : Clay + 0.5% Ijuk 3cm + 2% Lime
 Date : 6 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.0131303		Wight	W gram	153.00
Cell pessure	1.00		Rate of compression : 0.5%	Wet densit	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure		
	Axial defor- mation	Strain %			kg/cm ²	u
						kg/cm ²
0	0	0	1	0	0	0
	40	0.533	0.995	20	0.26120509	
	80	1.067	0.989	26	0.33774589	
	120	1.600	0.984	31	0.40052615	
	160	2.133	0.979	38	0.48830646	
	200	2.667	0.973	47	0.60066667	
	240	3.200	0.968	51	0.64821580	
	280	3.733	0.963	55	0.69520471	
	320	4.267	0.957	57	0.71649327	
	360	4.800	0.952	59	0.73750172	
	400	5.333	0.947	62	0.77066007	
	440	5.867	0.941	66	0.81575821	
	480	6.400	0.936	68	0.83571624	
	520	6.933	0.931	70	0.85539416	
	560	7.467	0.925	71	0.86264207	
	600	8.000	0.920	74	0.89390965	
	640	8.533	0.915	77	0.92475706	
	680	9.067	0.909	80	0.95518431	
	720	9.600	0.904	82	0.97332160	
	760	10.133	0.899	85	1.00297854	
	800	10.667	0.893	87	1.02048558	
	840	11.200	0.888	90	1.04937220	
	880	11.733	0.883	91	1.05465933	
	920	12.267	0.877	94	1.08284567	
	960	12.800	0.872	96	1.09916223	
	1000	13.333	0.867	97	1.10381911	
	1040	13.867	0.861	99.5	1.12530025	
	1080	14.400	0.856	98.5	1.10709292	
	1120	14.933	0.851	93	1.03876293	
	1160	15.467	0.845	92	1.02115085	



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soi : Clay
 Sampel : Clay + 0.5% Ijuk 3cm + 2% Lime
 Date : 6 Juni 2004
 Tested by : Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	154.00
Cell pessure	2.00		Rate of compression : 0.5	Wet density	gr/cm ³

Time	Strain			Reading of proving ring		Pore pressure	
	Axial defor mation	Strain				u	
		%			kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	1	0	0		
	40	0.533	0.995	19	0.248144838		
	80	1.067	0.989	30	0.389706794		
	120	1.600	0.984	50	0.646009914		
	160	2.133	0.979	58	0.745309866		
	200	2.667	0.973	65	0.830709225		
	240	3.200	0.968	75	0.953258532		
	280	3.733	0.963	79	0.998566761		
	320	4.267	0.957	81	1.018174650		
	360	4.800	0.952	83	1.037502426		
	400	5.333	0.947	87	1.081410092		
	440	5.867	0.941	90	1.112397559		
	480	6.400	0.936	93	1.142964858		
	520	6.933	0.931	96	1.173111987		
	560	7.467	0.925	100	1.214988836		
	600	8.000	0.920	102	1.232145738		
	640	8.533	0.915	105	1.261032361		
	680	9.067	0.909	107	1.277559010		
	720	9.600	0.904	112	1.329414873		
	760	10.133	0.899	115	1.356970960		
	800	10.667	0.893	118	1.384106878		
	840	11.200	0.888	120	1.399162936		
	880	11.733	0.883	125	1.448707869		
	920	12.267	0.877	127	1.462993617		
	960	12.800	0.872	128	1.465549646		
	1000	13.333	0.867	130	1.479345196		
	1040	13.867	0.861	132	1.492860634		
	1080	14.400	0.856	130	1.481137871		
	1120	14.933	0.851	129	1.440864714		
	1160	15.467	0.845	128	1.420731614		



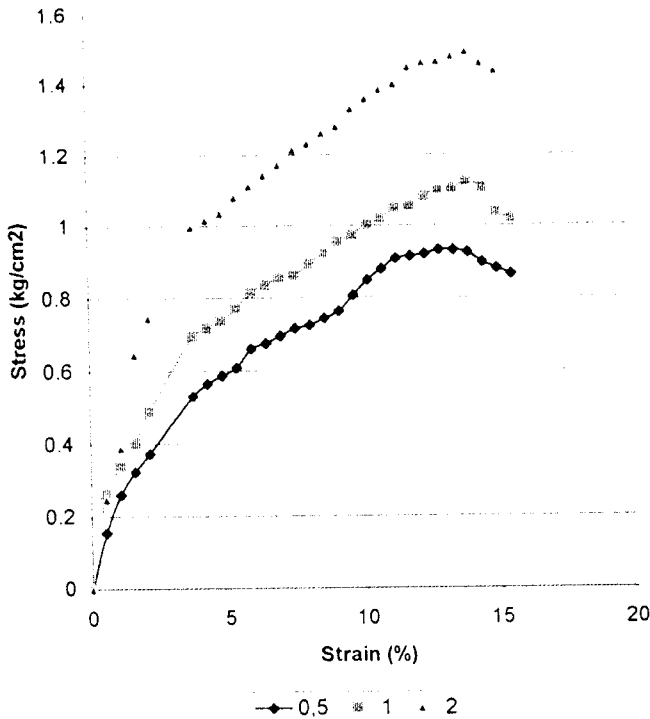
LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESSION TEST RESULT
UNCONSOLIDATED UNDRAINED (TXUU)

Project : Tugas Akhir
 Location : Salaman, Magelang, Jawa Tengah
 Description of soil : Clay

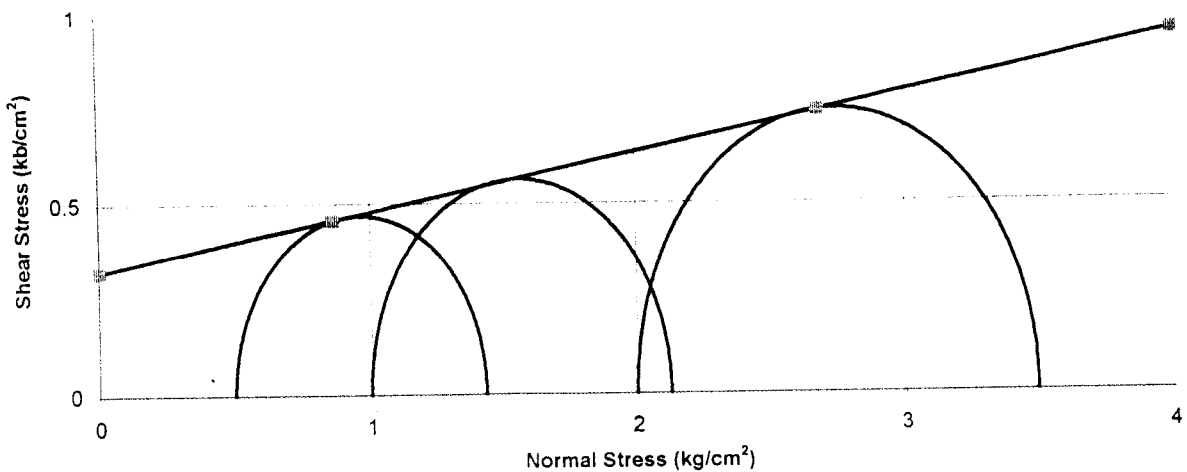
Sampel : Clay + 0.5% Ijuk 3cm + 2% Lime
 Date : 6 Juni 2004
 Tested by : Ujang + Mariza



Piece No :	1	2	3
H cm	7.5	7.5	7.5
D cm	4	4	4
A cm ²	12.57	12.57	12.57
V cm ³	94.25	94.25	94.25
Wt gram	150.00	153.00	154.00
Water Content			
Wt Container (cup), gr	21.65	22.05	
Wt of Cup + Wet soil, gr	60.25	56.70	
Wt of Cup + Dry soil, gr	48.45	46.10	
Water Content %	44.03	44.07	
Average water content %	44.05		

γ_d gram/cm ³	1.591549	1.62338	1.633991
γ_d gram/cm ³	1.104841	1.126938	1.134303

σ_3	0.5	1	2
$\Delta\sigma = P/A$	0.933143	1.1253	1.492861
$\sigma_1 = \Delta\sigma + \sigma_3$	1.433143	2.1253	3.492861
$(\sigma_1 + \sigma_3)/2$	0.966571	1.56265	2.74643
$(\sigma_1 - \sigma_3)/2$	0.466571	0.56265	0.74643
Angle of shearing resistance (ϕ)	9.023193		
Apperen cohesion (kg/cm ²)	0.317789		



LABORATORIUM MEKANIKA TANAH
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LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

Jl. Kaliurang KM. 14,4 Telp. (0274) 895042, 895707 fax 895330 Yogyakarta 55584.

TRIAXIAL COMPRESION TEST LOADING DATA

Project	: Tugas Akhir	Sampel	: Clay + 0.5% Ijuk 3cm + 4% Lime
Location	: Salaman, Magelang, Jawa Tengah	Date	: 11 Juni 2004
Description of soil	: Clay	Tested by	: Ujang + Mariza

Type of test apparatus		Dimension of test piece	Hight	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.013130		Wight	W gram	146.00
Cell pessure	0.50		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial deformation	Strain %		u	
				kg/cm ²	kg/cm ²
0	0	0	1	0	0
	40	0.533	0.995	12	0.156723056
	80	1.067	0.989	20	0.259804529
	120	1.600	0.984	26	0.335925155
	160	2.133	0.979	32	0.411205443
	200	2.667	0.973	42	0.536765961
	240	3.200	0.968	45	0.571955119
	280	3.733	0.963	46	0.581443937
	320	4.267	0.957	50	0.628502870
	360	4.800	0.952	53	0.662501549
	400	5.333	0.947	56	0.696080059
	440	5.867	0.941	59	0.729238400
	480	6.400	0.936	61	0.749686627
	520	6.933	0.931	64	0.782074658
	560	7.467	0.925	68	0.826192408
	600	8.000	0.920	74	0.893909653
	640	8.533	0.915	80	0.960786560
	680	9.067	0.909	85	1.014883326
	720	9.600	0.904	87	1.032670482
	760	10.133	0.899	90	1.061977273
	800	10.667	0.893	92	1.079134176
	840	11.200	0.888	95	1.107670657
	880	11.733	0.883	96	1.112607644
	920	12.267	0.877	98	1.128924209
	960	12.800	0.872	100	1.144960661
	1000	13.333	0.867	101	1.149337422
	1040	13.867	0.861	102	1.153574126
	1080	14.400	0.856	105	1.180149819
	1120	14.933	0.851	104	1.161627366
	1160	15.467	0.845	102	1.132145505



LABORATORIUM MEKANIKA TANAH
FAKULTAS TEKNIK SIPIL DAN PERENCANAAN
UNIVERSITAS ISLAM INDONESIA

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TRIAXIAL COMPRESION TEST LOADING DATA

Project	: Tugas Akhir	Sampel	: Clay + 0.5% Ijuk 3cm + 4% Lime
Location	: Salaman, Magelang, Jawa Tengah	Date	: 11 Juni 2004
Description of soil	: Clay	Tested by	: Ujang + Mariza

Type of test apparatus		Dimension of test piece	Height	H cm	7.50
No. Of cell			Diameter	D cm	4.00
No. of Proving ring			Cross area	A cm ²	12.5664
Coeff. proving ring K =	0.165		Volume	V cm ³	94.2478
k = K / A	0.01313		Wight	W gram	150.00
Cell pessure	2.00		Rate of compression : 0.5 %	Wet density	gr/cm ³

Time	Strain		Reading of proving ring	Pore pressure	
	Axial deformation	Strain %		u	
			kg/cm ²	kg/cm ²	kg/cm ²
0	0	0	0	0	
	40	0.533	19	0.248144838	
	80	1.067	30	0.389706794	
	120	1.600	39	0.503887733	
	160	2.133	45	0.578257655	
	200	2.667	50	0.639007097	
	240	3.200	78	0.991388873	
	280	3.733	84	1.061767189	
	320	4.267	90	1.131305166	
	360	4.800	98	1.225002865	
	400	5.333	100	1.243000106	
	440	5.867	110	1.359597017	
	480	6.400	115	1.413343641	
	520	6.933	120	1.466389984	
	560	7.467	124	1.506586156	
	600	8.000	127	1.534142243	
	640	8.533	130	1.561278161	
	680	9.067	135	1.611873517	
	720	9.600	140	1.661768592	
	760	10.133	141	1.663764395	
	800	10.667	144	1.689079580	
	840	11.200	148	1.725634287	
	880	11.733	151	1.750039106	
	920	12.267	155	1.785543391	
	960	12.800	157	1.797588237	
	1000	13.333	158	1.797973392	
	1040	13.867	161	1.820837591	
	1080	14.400	162	1.820802577	
	1120	14.933	160	1.787119025	
	1160	15.467	159	1.764815051	



KARTU PESERTA TUGAS AKHIR

NO.	N A M A	NO. MHS.	BID.STUDI
1	Ujang Sadikin	99.511.195	Teknik Sipil
2	Mariza Stella	99.511.297	Teknik Sipil

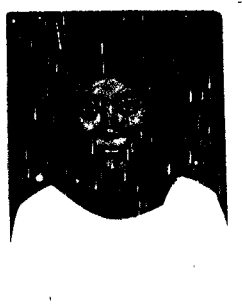
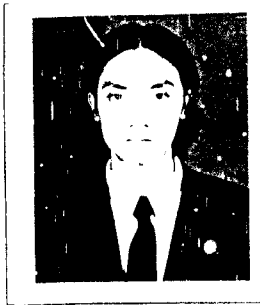
JUDUL TUGAS AKHIR :

.....
 Analisis penambahan ijuk dan kapur sebagai bahan stabilisator tanah lempung untuk
 subgrade jalan

**PERIODE II : DESEMBER - MEI
 TAHUN : 2003- 2004**

No.	Kegiatan	Bulan Ke :					
		Des.	Jan.	Peb.	Mar.	Apr.	Mei.
1.	Pendaftaran	■					
2.	Pencentuan Dosen Pembimbing	■					
3.	Pembuatan Proposal		■				
4.	Seminar Proposal		■	■			
5.	Konsultasi Penyusunan TA.			■	■	■	
6.	Sidang-Sidang					■	■
7.	Pendadaran.						■

DOSEN PEMBIMBING I : Edy Purwanto, DR., Ir., CE, DEA
 DOSEN PEMBIMBING II : Akhmad Marzuko, Ir., MT...



Yogyakarta, 9 Pebruari 2004
 a.n. Dekan.

(Signature)
 A. Ir. H. Munadhir, MT

Catatan.

Seminar :
 Sidang :
 Pendadaran :

Setiap kali mahasiswa konsultasi dosen pembimbing diminta untuk selalu menanyakan KRS Mahasiswa yang bersangkutan yang didalamnya harus tercantum SKS TA (tugas Akhir), bila SKS TA tidak tercantum maka dosen tidak boleh melayani konsultasi mahasiswa yang bersangkutan

UNTUK MAHASISWA

KARTU PESERTA TUGAS AKHIR

NO	N A M A	NO.MHS.	BiD.STUDI
1.	Ujang Sadikin	99 511 195	Teknik Sipil
2.	Mariza Stella	99 511 297	Teknik Sipil

JUDUL TUGAS AKHIR

Analisis penambahan ijuk dan kapur sebagai bahan stabilisator tanah lempung untuk subgrade jalan

PERIODE II : DESEMBER – MEI
TAHUN : 2003 - 2004

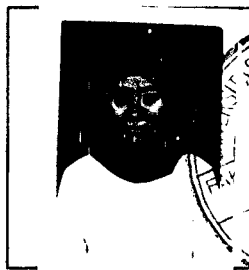
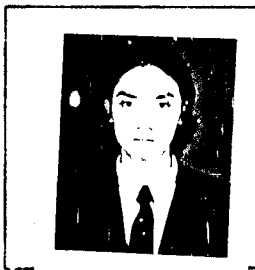
No.	Kegiatan	Bulan Ke :					
		Des.	Jan.	Peb.	Mar.	Apr.	Mei.
1	Pendaftaran	■					
2	Penentuan Dosen Pembimbing	■					
3	Pembuatan Proposal		■				
4	Seminar Proposal		■	■			
5	Konsultasi Penyusunan TA.			■	■	■	
6	Sidang - Sidang					■	■
7	Pendadaran						■

Dosen Pembimbing I :

Edy Purwanto,DR,Ir,CES,DEA

Dosen Pembimbing II :

Akhmad Marzuko,Ir,MT

Jogjakarta, 19.Juli.2004
an. Dekan
Ir.H.Munadhir, MS**Catatan :**

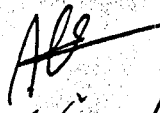
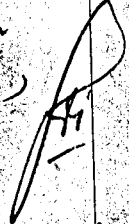
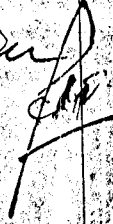

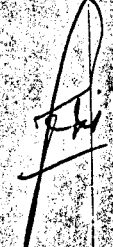
Seminar : _____
Sidang : _____
pendadaran : _____

CATATAN KONSULTASI TUGAS AKHIR

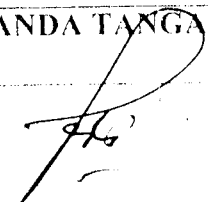






NO	TANGGAL	CATATAN KONSULTASI	TANDA TANGAN
2/03	04	- Perbaiki & lengkapi sesuai feedback	
4/03	04	<ul style="list-style-type: none"> - Lengkapi setiap teori dg gambar?, photo, sketsa dsb. - Siapkan runtuh seminar proposal. - Tunggu Bp. Marzuko dtt 	
5/3	04	<p>Perhatikan!</p> <ul style="list-style-type: none"> • landasan teori • metode penelitian <p>Dapas semua proposal</p>	
13/4	2014	<p>Pencapaian 1 3 7 hr <small>1 hr</small> CBR & UCS + yud.</p>	
4/106	07	<p>Lanjut L Penelitian & tulis TA</p>	
2/7	04	<ul style="list-style-type: none"> • kajian pustaka Guberp nama & hasil. • no. rumus 	

- hasil uji e. UCS & Triaxial
- hasil pengujian yg pasti (rasa' tdk perlu)
- sesuaikan judul, Taguom & kesimpulannya

CATATAN KONSULTASI TUGAS AKHIR

NO	TANGGAL	CATATAN KONSULTASI	TANDA TANGAN
1	19.7.2004	dipi delonggukan ke OP I.	
	27/7 '04	- Lunyhepi dug haffor esi, Pecusomom haldaman, dss	 
	29/7 '04	acc untuh majur Siday hasil TA	
	8/8 '04	acc untuh ujira Pekndara	
	20/08 '04	acc untuh sigitid	

CATATAN KONSULTASI TUGAS AKHIR

NO	TANGGAL	CATATAN KONSULTASI	TANDA TANGAN
	2/02 '04	- Perbaiki & lengkapi sesuai feedback	
	4/03 '04	<ul style="list-style-type: none"> - Lengkapi setiap teori dg gambar, photo, sketsa dsb. - Siapkan rentansi seminar proposal - Temui Bp. Marzalco 	
	5/3 '04	<p>Perhatikan!</p> <ul style="list-style-type: none"> • landasan teori • metode penelitian 	
		Dasar semua proposal	
	13/4 2014	<p>Pencapaian 1 3 7 hr (sudah) CBR & UGS + yuk!</p>	
	4/10 '04	Lanjut ke penelitian & tulis TA	
	2/7 '04	<ul style="list-style-type: none"> • kajian pustaka Gubuk nama & hasil. • no. rumus 	

- hasil uji @ UCS & Triaxial
- hasil pengujian yg pasti (rasa' ddh paku)
- sesuaikan judul, Tagline & kesimpulan