

MOISTURE CONTENT DETERMINATION

PROJECT : TUGAS AKHIR
LOCATION : BANDUNG
D A T A :
TESTED BY : JOHNADI R. PURBA

SAMPLE NUMBER DEPTH		UKM		Setra Duta		Buah Batu		Kopo	
		B12	AC	90	17	A1	25	15	C3
Container number									
Weight of wet soil + container	g	164,10	138,50	164,40	156,80	274,90	224,00	176,50	147,20
Weight of dry soil + container	g	146,30	125,20	141,00	136,20	210,60	174,60	144,60	124,80
Weight of container	g	66,80	65,40	64,40	66,40	64,80	64,60	64,40	66,80
Weight of dry soil	g	79,50	59,80	76,60	69,80	64,30	49,40	31,90	22,40
Weight of water	g	17,80	13,30	23,40	20,60	145,80	110,00	80,20	58,00
Moistute content	%	22,39	22,24	30,55	29,51	44,10	44,91	39,78	38,62
Average	%	22,32		30,03		44,51		39,20	

SPECIFIC GRAVITY TEST

Soil sample :	Form Nr :
:	Test No.
Location : UKM	Date 19-7-2006
Boring No. :	Tested I.Johnadi R.Purba
Sample No. : 1	

Depth in m : 0.2 - 0.4 m

Determination	1	2	3	4	5	6
Wt. Bottle + water + soil ; W1	799,70	801,90	803,40	804,00	805,40	806,90
Temperature ; T (C)	60	55	50	45	40	35
Wt. Bottle + water ; W2	699,70	701,90	703,40	704,00	705,40	706,90
Wt. of pan + dry soil	260,80					
Wt. of pan	100,60					
Wt. of dry soil ; Ws	160,20					
Spec. Garvity of water at T ; GT	0,9832	0,9857	0,9881	0,9902	0,9922	0,9941
Spec. Garvity of soil ; Gs	2,62	2,62	2,63	2,64	2,64	2,65
AVERAGE Gs	2,63					

Soil sample :	Form Nr :
:	Test No.
Location : Setra Duta	Date 19-7-2006
Boring No. :	Tested I.Johnadi R.Purba
Sample No. : 2	

Depth in m : 0.2 - 0.4 m

Determination	1	2	3	4	5	6
Wt. Bottle + water + soil ; W1	807,80	810,10	812,20	812,80	813,80	814,40
Temperature ; T (C)	60	55	50	45	40	35
Wt. Bottle + water ; W2	707,80	710,10	712,20	712,80	713,80	714,40
Wt. of pan + dry soil	259,70					
Wt. of pan	98,00					
Wt. of dry soil ; Ws	161,70					
Spec. Garvity of water at T ; GT	0,9832	0,9857	0,9881	0,9902	0,9922	0,9941
Spec. Garvity of soil ; Gs	2,58	2,58	2,59	2,60	2,60	2,61
AVERAGE Gs	2,59					

SPECIFIC GRAVITY TEST

Soil sample :
 :
 Location : Buah Batu
 Boring No. :
 Sample No. : 3

Form N :
 Test No.
 Date 19-7-2006
 Tested Johnadi R.Purba

Depth in m : 0.2 - 0.4 m

Determination	1	2	3	4	5	6
Wt. Bottle + water + soil ; W1	795,70	796,60	797,40	798,10	799,10	799,40
Temperature ; T (C)	60	55	50	45	40	35
Wt. Bottle + water ; W2	695,70	696,60	697,40	698,10	699,10	699,40
Wt. of pan + dry soil	253,40					
Wt. of pan	97,30					
Wt. of dry soil ; Ws	156,10					
Spec. Garvity of water at T ; GT	0,9832	0,9857	0,9881	0,9902	0,9922	0,9941
Spec. Garvity of soil ; Gs	2,74	2,74	2,75	2,76	2,76	2,77
AVERAGE Gs	2,75					

Soil sample :
 :
 Location : Kopo
 Boring No. :
 Sample No. : 4

Form N :
 Test No.
 Date 19-7-2006
 Tested Johnadi R.Purba

Determination	1	2	3	4	5	6
Wt. Bottle + water + soil ; W1	804,70	805,50	806,60	807,70	809,10	809,80
Temperature ; T (C)	55	50	45	40	35	30
Wt. Bottle + water ; W2	743,80	745,20	746,30	747,30	748,15	748,90
Wt. of pan + dry soil	221,50					
Wt. of pan	123,70					
Wt. of dry soil ; Ws	97,80					
Spec. Garvity of water at T ; GT	0,9857	0,9881	0,9902	0,9922	0,9941	0,9957
Spec. Garvity of soil ; Gs	2,61	2,58	2,58	2,59	2,64	2,64
AVERAGE Gs	2,61					

SIEVE ANALYSIS

Sample Data

PROJECT : TUGAS AKHIR
 location / depth : UKM
 sample description :
 specific gravity : 2.63

Mechanical Data Analysis

Dry sample and tare : **84.07**
 Tare : **0.00**
 Dry sample weight : **84.07**
 Sieve tare method

Sieve	Weight retained	Sieve tare	Percent finer
# 4	0,00	0,00	100,00
# 10	0,01	0,00	99,99
# 16	0,01	0,00	99,98
# 20	0,05	0,00	99,93
# 30	0,05	0,00	99,88
# 40	0,41	0,00	99,47
# 60	2,05	0,00	97,42
# 80	4,86	0,00	92,56
# 100	4,80	0,00	87,76
# 140	9,89	0,00	77,87
# 170	6,45	0,00	71,42
# 200	3,06	0,00	68,36

HYDROMETER ANALYSIS

Mechanical Data Analysis

correction factor : **1,01**
 meniscus correction : **0,5**
 effective depth, L : **16.294964 - 0.2645 x Rm**

Elapset time, min	Tempet, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
0,5	31,0	1,0250	1,0277	0,0122	25,5	9,55	0,0533	53,5
1,0	30,8	1,0250	1,0277	0,0122	25,5	9,55	0,0377	53,4
2,0	28,0	1,0250	1,0266	0,0126	25,5	9,55	0,0275	51,3
4,0	26,1	1,0250	1,0260	0,0129	25,5	9,55	0,0199	50,2
8,0	24,8	1,0250	1,0257	0,0131	25,5	9,55	0,0143	49,7
15,0	23,1	1,0250	1,0254	0,0133	25,5	9,55	0,0106	48,1
30,0	21,5	1,0250	1,0252	0,0136	25,5	9,55	0,0077	48,6
60,0	20,0	1,0250	1,0250	0,0138	25,5	9,55	0,0055	48,2
120,0	18,1	1,0251	1,0248	0,0142	25,6	9,52	0,0040	47,9
240,0	17,3	1,0252	1,0248	0,0143	25,7	9,50	0,0028	47,9
450,0	15,5	1,0252	1,0246	0,0146	25,7	9,50	0,0021	47,4
1440,0	14,0	1,0245	1,0236	0,0149	25,0	9,68	0,0012	45,6

GRAIN SIZE DISTRIBUTION REPORT



UKM

SIEVE ANALYSIS

Sample Data

PROJECT : TUGAS AKHIR
 location / depth : SETRA DUTA
 sample description :
 specific gravity : 2.59

Mechanical Data Analysis

Dry sample and tare : 90.79
 Tare : 0.00
 Dry sample weight : 90.79
 Sieve tare method

Sieve	Weight retained	Sieve tare	Percent finer
# 4	0,00	0,00	100,00
# 10	0,02	0,00	99,98
# 16	0,12	0,00	99,86
# 20	0,43	0,00	99,43
# 30	0,43	0,00	99,00
# 40	1,27	0,00	97,73
# 60	2,04	0,00	95,69
# 80	3,24	0,00	92,45
# 100	3,24	0,00	89,21
# 140	8,56	0,00	80,65
# 170	4,35	0,00	76,30
# 200	1,79	0,00	74,51

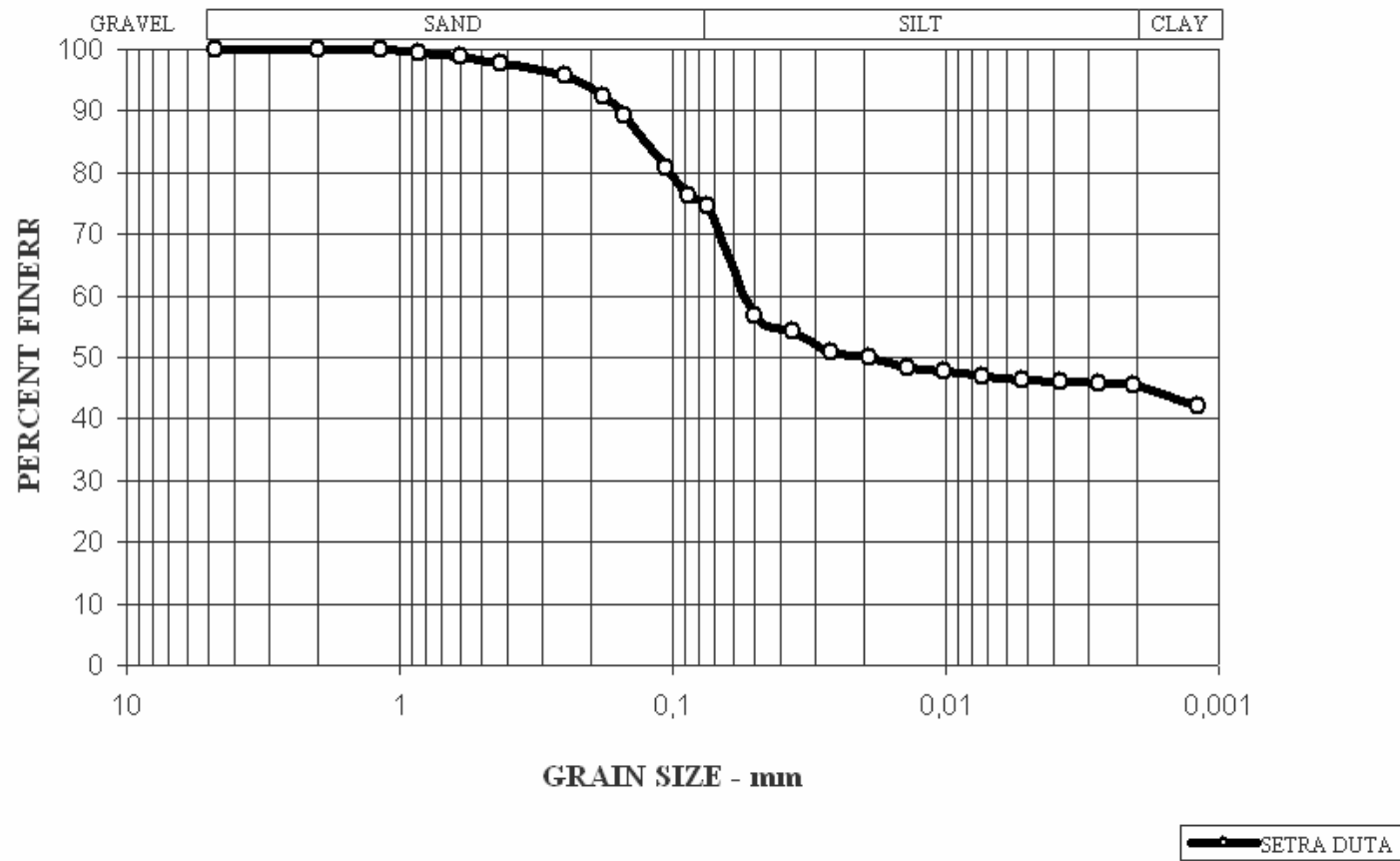
HYDROMETER ANALYSIS

Mechanical Data Analysis

correction factor : 1,009
 meniscus correction : 0,5
 effective depth, L : 16.294964 - 0.2645 x Rm

Elapset time, min	Tempet, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
0,5	36,5	1,2500	1,0313	0,0115	25,5	9,55	0,0503	56,7
1,0	34,8	1,2500	1,0300	0,0117	25,5	9,55	0,0362	54,3
2,0	31,6	1,2500	1,0280	0,0121	25,5	9,55	0,0264	50,8
4,0	30,5	1,2500	1,0275	0,0123	25,5	9,55	0,0190	49,9
8,0	28,2	1,2500	1,0266	0,0126	25,5	9,55	0,0138	48,3
15,0	26,8	1,2500	1,0262	0,0128	25,5	9,55	0,0102	47,6
30,0	25,2	1,2500	1,0258	0,0130	25,5	9,55	0,0073	46,9
60,0	24,1	1,2500	1,0256	0,0132	25,5	9,55	0,0053	46,4
120,0	22,0	1,0251	1,0254	0,0135	25,6	9,52	0,0038	46,0
240,0	20,2	1,2520	1,0252	0,0138	25,7	9,50	0,0027	45,7
450,0	18,0	1,0254	1,0251	0,0142	25,9	9,44	0,0021	45,6
1440,0	17,4	1,0235	1,0231	0,0143	24,0	9,95	0,0012	42,0

GRAIN SIZE DISTRIBUTION REPORT



SIEVE ANALYSIS

Sample Data

PROJECT : TUGAS AKHIR
 location / depth : BUAH BATU
 sample description :
 specific gravity : 2.75

Mechanical Data Analysis

Dry sample and tare : 67.05
 Tare : 0.00
 Dry sample weight : 67.05
 Sieve tare method

Sieve	Weight retained	Sieve tare	Percent finer
# 4	0,00	0,00	100,00
# 10	0,31	0,00	99,69
# 16	0,32	0,00	99,37
# 20	0,08	0,00	99,18
# 30	0,19	0,00	98,99
# 40	0,10	0,00	98,89
# 60	0,28	0,00	98,61
# 80	0,59	0,00	98,02
# 100	1,10	0,00	96,92
# 140	1,68	0,00	95,24
# 170	5,18	0,00	90,06
# 200	5,4	0,00	84,66

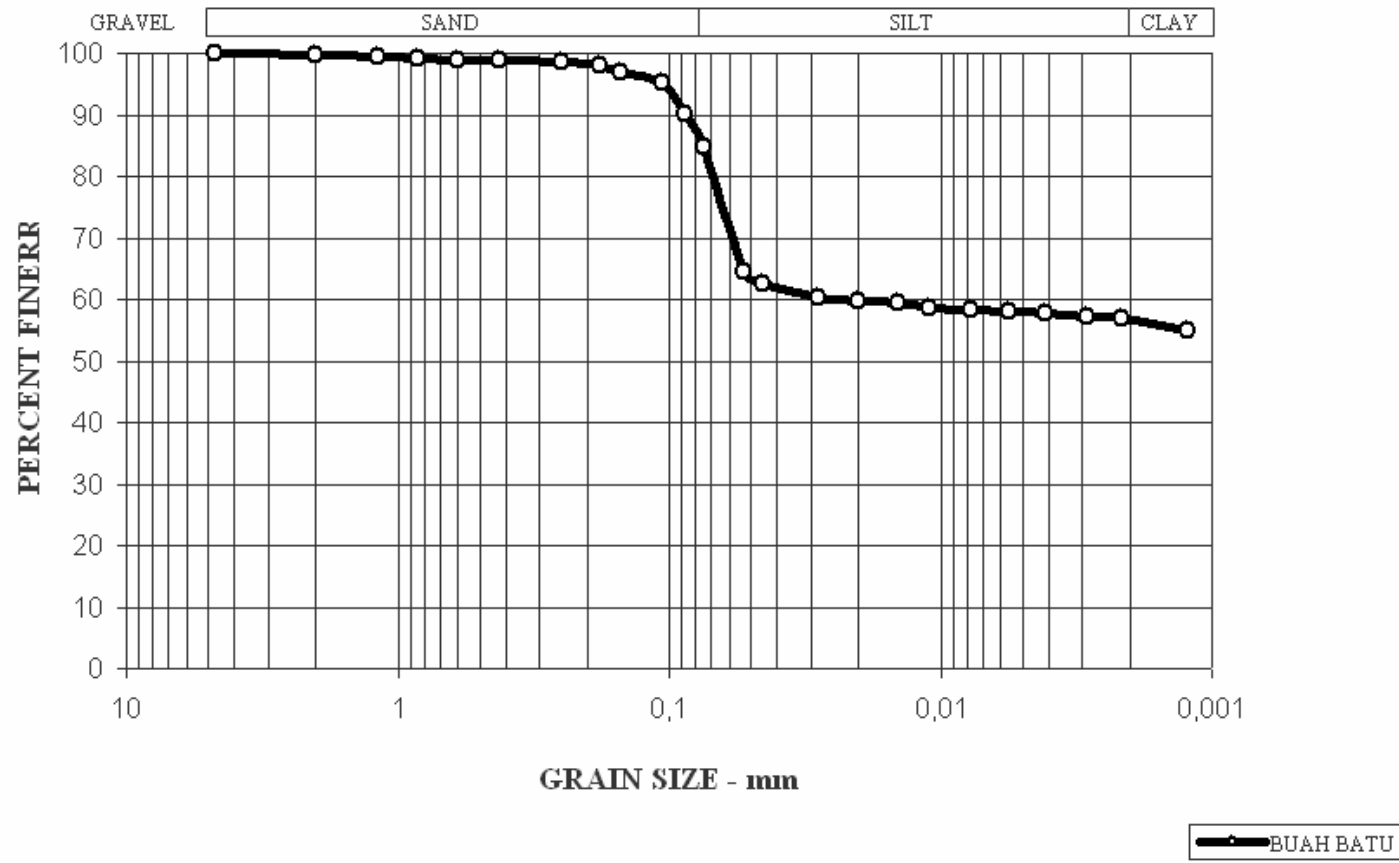
HYDROMETER ANALYSIS

Mechanical Data Analysis

correction factor : 1,01
 meniscus correction : 0,5
 effective depth, L : $16.294964 - 0.2645 \times R_m$

Elapset time, min	Tempet, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
0,5	31,0	1,0250	1,0277	0,0122	25,5	9,55	0,0533	64,5
1,0	29,0	1,0250	1,0269	0,0013	25,5	9,55	0,0039	62,5
2,0	26,0	1,0250	1,0260	0,0129	25,5	9,55	0,0282	60,4
4,0	24,0	1,0250	1,0256	0,0131	25,5	9,55	0,0202	59,6
8,0	23,3	1,0250	1,0256	0,0132	25,5	9,55	0,0144	59,4
15,0	22,0	1,0250	1,0253	0,0137	25,5	9,55	0,0109	58,7
30,0	21,1	1,0250	1,0253	0,0138	25,5	9,55	0,0078	58,4
60,0	20,1	1,0250	1,0251	0,0141	25,5	9,55	0,0056	58,0
120,0	18,2	1,0251	1,0250	0,0145	25,6	9,52	0,0041	57,7
240,0	16,2	1,0252	1,0248	0,0145	25,7	9,50	0,0029	57,3
450,0	15,0	1,0252	1,0245	0,0147	25,7	9,50	0,0021	56,9
1440,0	14,4	1,0245	1,0237	0,0149	25,0	9,68	0,0012	55,0

GRAIN SIZE DISTRIBUTION REPORT



SIEVE ANALYSIS

Sample Data

PROJECT : TUGAS AKHIR
 location / depth : KOPO
 sample description :
 specific gravity : 2.61

Mechanical Data Analysis

Dry sample and tare : 64.23
 Tare : 0.00
 Dry sample weight : 64.23
 Sieve tare method

Sieve	Weight retained	Sieve tare	Percent finer
# 4	0,20	0,00	99,70
# 10	0,23	0,00	99,30
# 16	0,03	0,00	99,30
# 20	0,17	0,00	99,00
# 30	0,25	0,00	98,60
# 40	0,67	0,00	97,60
# 60	0,30	0,00	97,10
# 80	2,08	0,00	93,90
# 100	3,76	0,00	88,00
# 140	6,26	0,00	78,30
# 170	5,08	0,00	70,40
# 200	1,78	0,00	68,62

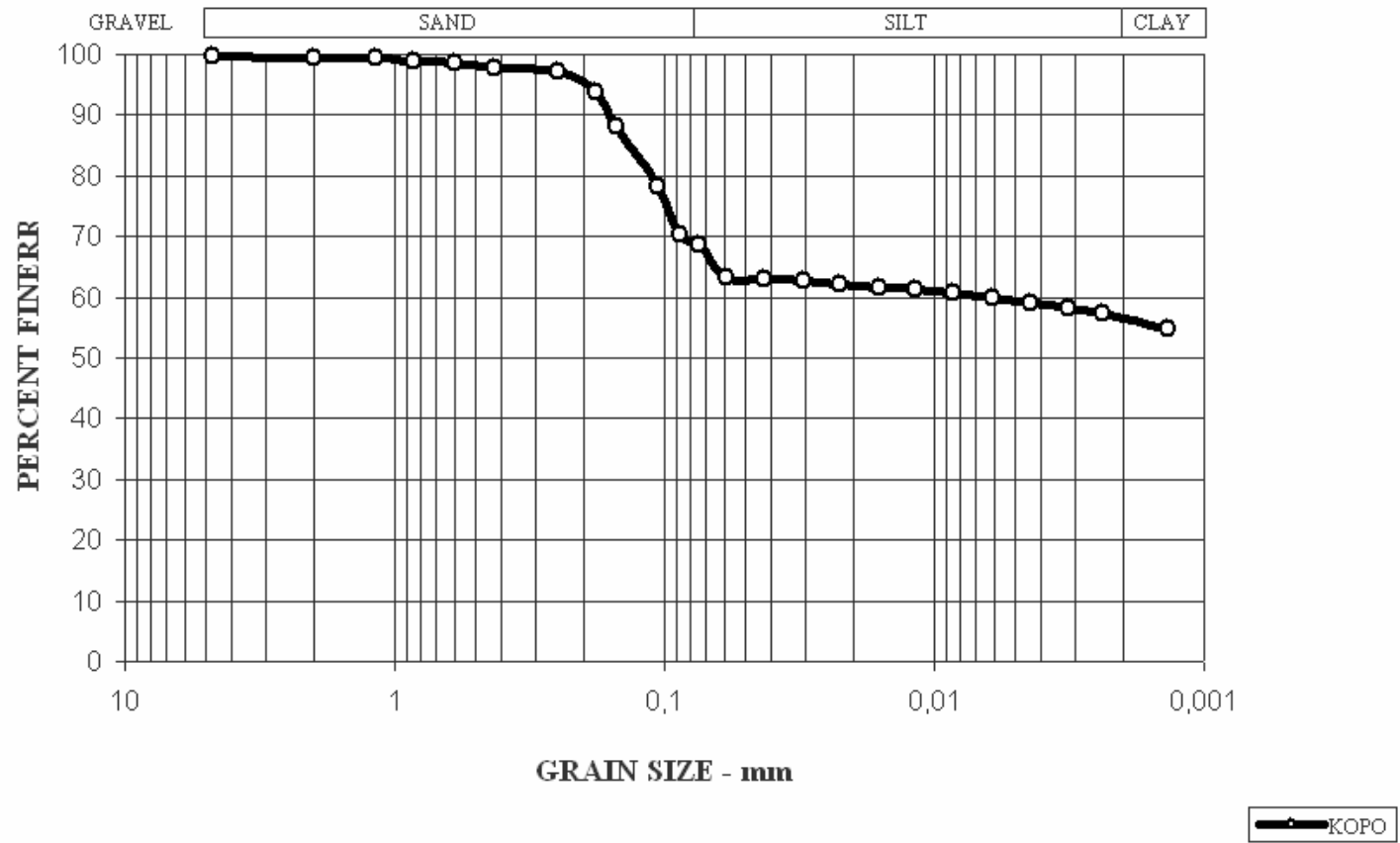
HYDROMETER ANALYSIS

Mechanical Data Analysis

correction factor : 1,01
 meniscus correction : 0,5
 effective depth, L : $16.294964 - 0.2645 \times R_m$

Elapset time, min	Tempet, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
0,5	21,8	1,0250	1,0252	0,0135	25,5	9,55	0,0590	63,3
1,0	20,1	1,0250	1,0250	0,0138	25,5	9,55	0,0426	63,1
2,0	19,1	1,0250	1,0249	0,0140	25,5	9,55	0,0306	62,8
4,0	17,0	1,0250	1,0246	0,0144	25,5	9,55	0,0223	62,1
8,0	15,8	1,0250	1,0244	0,0146	25,5	9,55	0,0160	61,7
15,0	14,6	1,0250	1,0242	0,0148	25,5	9,55	0,0118	61,2
30,0	13,6	1,0250	1,0240	0,0150	25,5	9,55	0,0085	60,7
60,0	12,0	1,0250	1,0237	0,0153	25,5	9,55	0,0061	59,9
120,0	10,5	1,0251	1,0234	0,0157	25,6	9,52	0,0044	59,1
240,0	9,0	1,0252	1,0231	0,0160	25,7	9,50	0,0032	58,2
450,0	8,0	1,0252	1,0227	0,0163	25,7	9,50	0,0024	57,3
1440,0	7,2	1,0245	1,0217	0,0165	25,0	9,68	0,0014	54,7

GRAIN SIZE DISTRIBUTION REPORT



ATERBERG LIMIT

PROJECT : Tugas Akhir	DATE OF TEST : 21 -7 -2006
LOCATION : UKM	TESTED BY : Johnadi R Purba
SAMPLE NO. : 1	CHECKED BY :
SAMPLE DEPTH : 0.2 - 0.35 m	

SOIL PARAMETERS

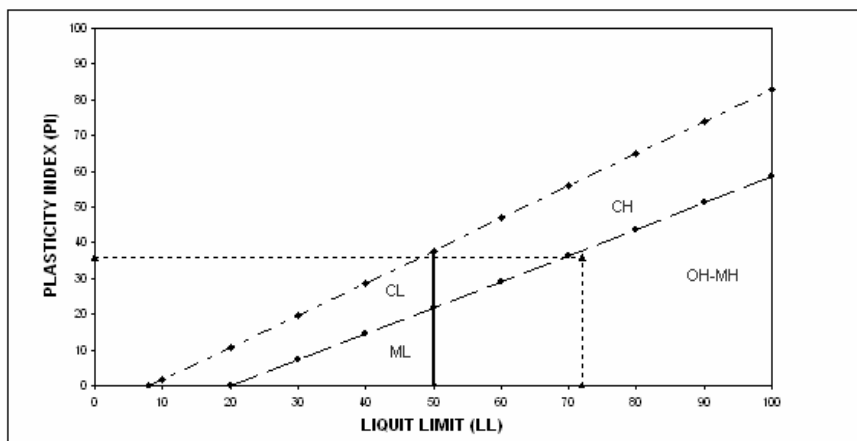
Water Content/Kadar Air : 21 %
 Specific Gravity/Berat Jenis : 2,6

test number	liquid limit				plastic limit	
	1	2	3	4	1	2
container number	33	75	49	46	65	27
number of blows	40	35	25	20		
weight of container + wet soil (gr)	32,70	27,20	27,80	31,80	24,30	19,10
weight of container + dry soil (gr)	23,20	19,90	19,80	22,50	21,70	16,40
weight of water (gr)	9,50	7,30	8,00	9,30	2,60	2,70
weight of container (gr)	9,70	9,60	8,80	9,60	14,30	9,10
weight of dry soil (gr)	13,50	10,30	11,00	12,90	7,40	7,30
moisture content (%)	70,37	70,87	72,73	72,09	35,1	37,0
	average				36	

CASSAGRANDE CHART



U.S.C. SOIL CLASSIFICATION



ATERBERG LIMIT

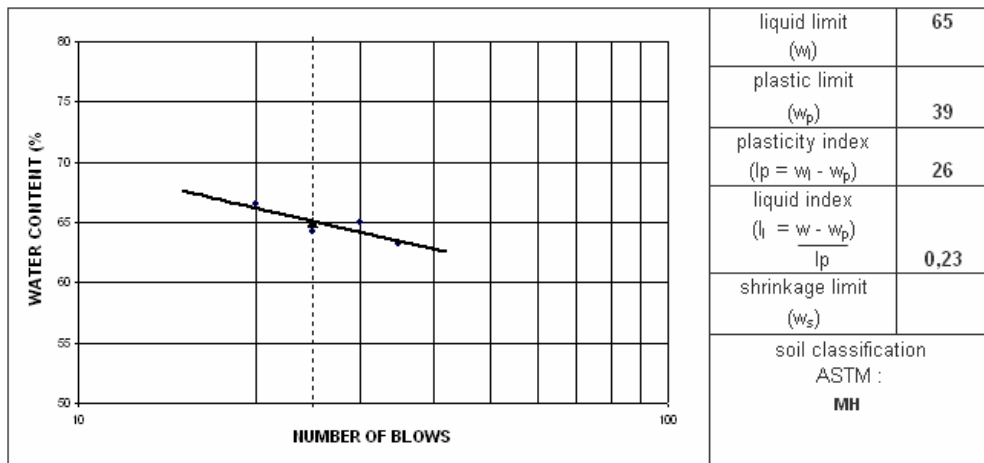
PROJECT : Tugas Akhir	DATE OF TEST : 21 -7 -2006
LOCATION : Setra Duta	TESTED BY : Johnadi R Purba
SAMPLE NO. : 2	CHECKED BY :
SAMPLE DEPTH : 0.2 - 0.35 m	

SOIL PARAMETERS

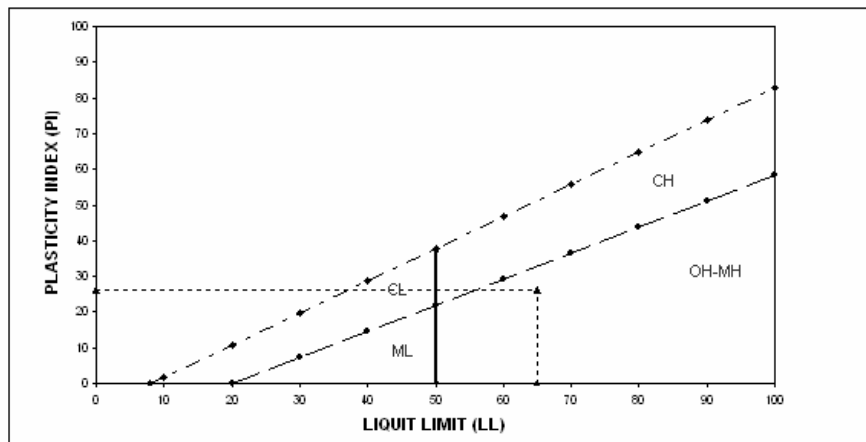
Water Content/Kadar Air : 33 %
 Specific Gravity/Berat Jenis : 2,6

	liquid limit				plastic limit	
	1	2	3	4	1	2
test number	33	75	49	46	65	27
container number	35	30	25	20		
number of blows						
weight of container + wet soil (gr)	34,30	36,20	42,60	37,70	20,40	23,50
weight of container + dry soil (gr)	24,70	25,80	29,70	26,20	17,50	19,50
weight of water (gr)	9,60	10,40	12,90	11,50	2,90	4,00
weight of container (gr)	9,50	9,80	9,60	8,90	9,80	9,40
weight of dry soil (gr)	15,20	16,00	20,10	17,30	7,70	10,10
moisture content (%)	63,16	65,00	64,18	66,47	37,7	39,6
	average				39	

CASSAGRANDE CHART



U.S.C. SOIL CLASSIFICATION



ATERBERG LIMIT

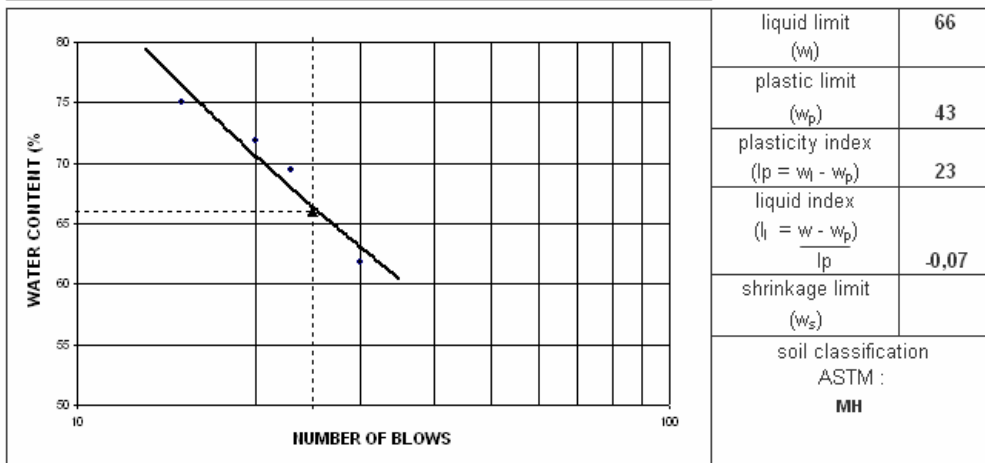
PROJECT : Tugas Akhir	DATE OF TEST : 21 -7 -2006
LOCATION : Buah Batu	TESTED BY : Johnadi R Purba
SAMPLE NO. : 3	CHECKED BY :
SAMPLE DEPTH : 0.2 - 0.35 m	

SOIL PARAMETERS

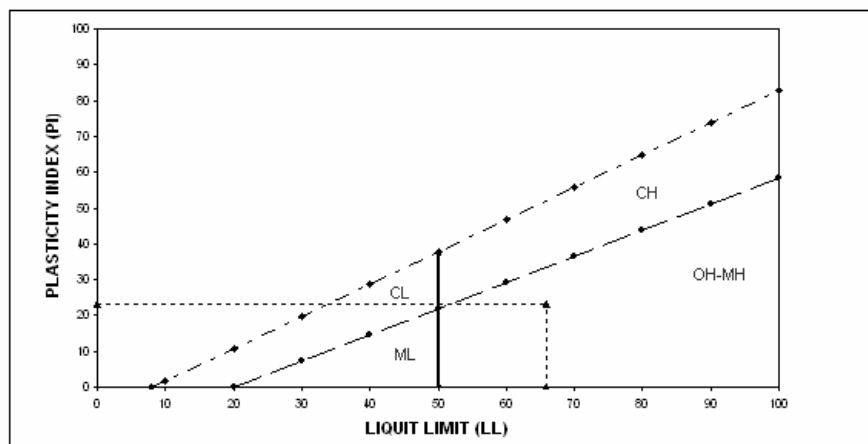
Water Content/Kadar Air : 45 %
 Specific Gravity/Berat Jenis : 2,8

test number	liquid limit				plastic limit	
	1	2	3	4	1	2
container number	33	75	49	46	65	27
number of blows	30	23	20	15		
weight of container + wet soil (gr)	15,10	16,90	15,00	13,70	18,90	24,10
weight of container + dry soil (gr)	13,00	12,80	12,70	11,90	15,90	21,10
weight of water (gr)	2,10	4,10	2,30	1,80	3,00	3,00
weight of container (gr)	9,60	6,90	9,50	9,50	8,90	14,10
weight of dry soil (gr)	3,40	5,90	3,20	2,40	7,00	7,00
moisture content (%)	61,76	69,49	71,88	75,00	42,9	42,9
	average				43	

CASSAGRANDE CHART



U.S.C. SOIL CLASSIFICATION



ATERBERG LIMIT

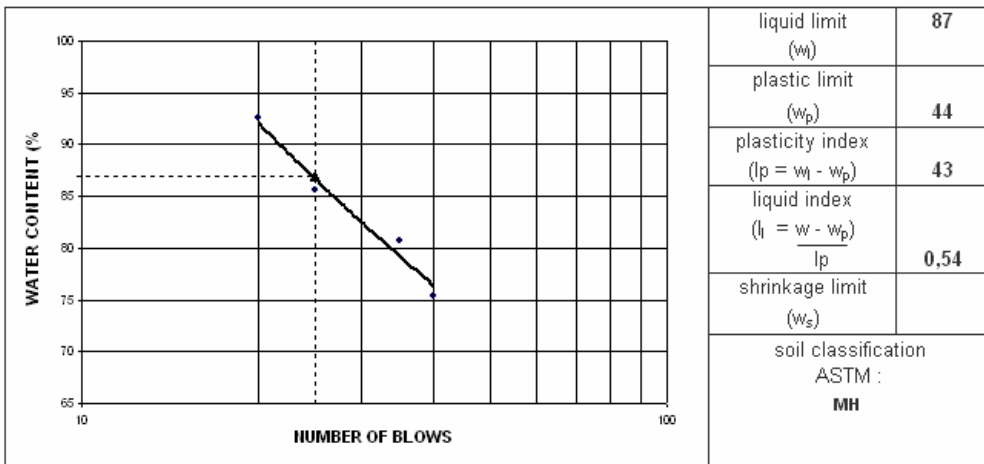
PROJECT : Tugas Akhir	DATE OF TEST : 21-7-2006
LOCATION : Kopo	TESTED BY : Johnadi R Purba
SAMPLE NO. : 4	CHECKED BY :
SAMPLE DEPTH : 0.2 - 0.35 m	

SOIL PARAMETERS

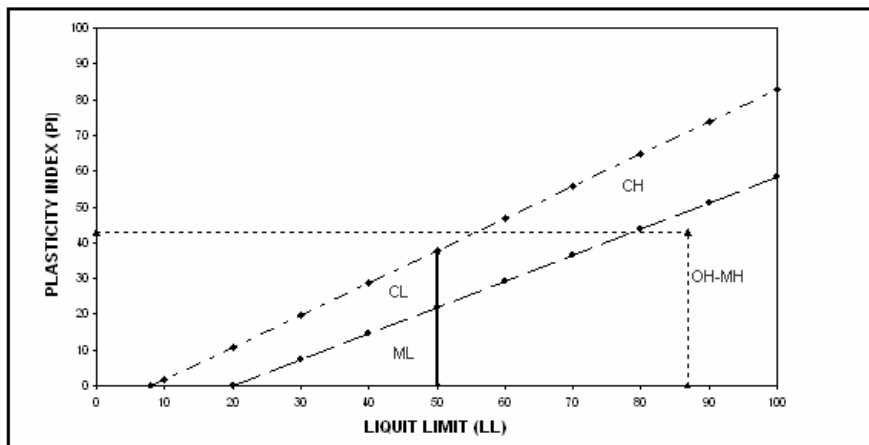
Water Content/Kadar Air : 21 %
 Specific Gravity/Berat Jenis : 2,6

test number	liquid limit				plastic limit	
	1	2	3	4	1	2
container number	33	75	49	46	65	27
number of blows	40	35	25	20		
weight of container + wet soil (gr)	30,75	29,25	30,86	28,89	23,67	23,14
weight of container + dry soil (gr)	21,95	20,68	21,75	19,99	19,53	19,26
weight of water (gr)	8,80	8,57	9,11	8,90	4,14	3,88
weight of container (gr)	10,28	10,07	11,11	10,38	10,09	10,39
weight of dry soil (gr)	11,67	10,61	10,64	9,61	9,44	8,87
moisture content (%)	75,41	80,77	85,62	92,61	43,9	43,7
	average				44	

CASSAGRANDE CHART



U.S.C. SOIL CLASSIFICATION



CBR TEST

Soil sample :
 :
 Location : UKM, Bandung
 Depth : 0,20 - 0,35
 Sample No. : 1

Form No. : I/6
 Test type : Standar AASHTO
 Date : 17 Juli 2006
 Tested by : Johnadi R. Purba

Number of Mold	B
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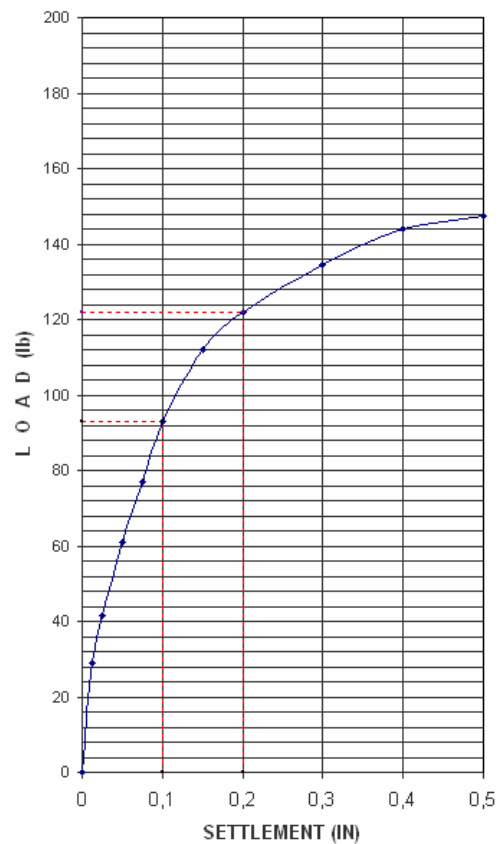
Weight of soil + mold	9510
Weight of mold	7240
Weight of soil	2270
Volume of soil	2085,00
Wet density	1,09
Dry density	0,89

Time (min)	Settl. (in)	Dial reading (cal. 32.0309)	Load (lb)
1/4	0,0125	0,90	28,8
1/2	0,025	1,30	41,6
1	0,050	1,90	60,9
1 1/2	0,075	2,40	76,9
2	0,100	2,90	92,9
3	0,150	3,50	112,1
4	0,200	3,80	121,7
6	0,300	4,20	134,5
8	0,400	4,50	144,1
10	0,500	4,60	147,3

Water content		
Wt. of wet soil + dish	164,10	138,50
Wt. of dry soil + dish	146,30	125,20
Wt. of dish	66,80	65,40
Wt. of water	17,80	13,30
Wt. of dry soil	79,50	59,80
Water content	22,39	22,24
Average	22,32	

CBR VALUE	
01"	02"
$\frac{92,890}{3000} \times 100 \%$	$\frac{121,7}{4500} \times 100 \%$
3,10 %	2,70 %
3,10 %	

**GRAFIK HUBUNGAN ANTARA
SETTLEMENT vs LOAD**



CBR TEST

Soil sample :
 Location : Setra Duta, Bandung
 Depth : 0,20 - 0,35
 Sample No. : 2

Form No. : I/6
 Test type : Standar AASHTO
 Date : 17 Juli 2006
 Tested by : Johnadi R. Purba

Number of Mold	D
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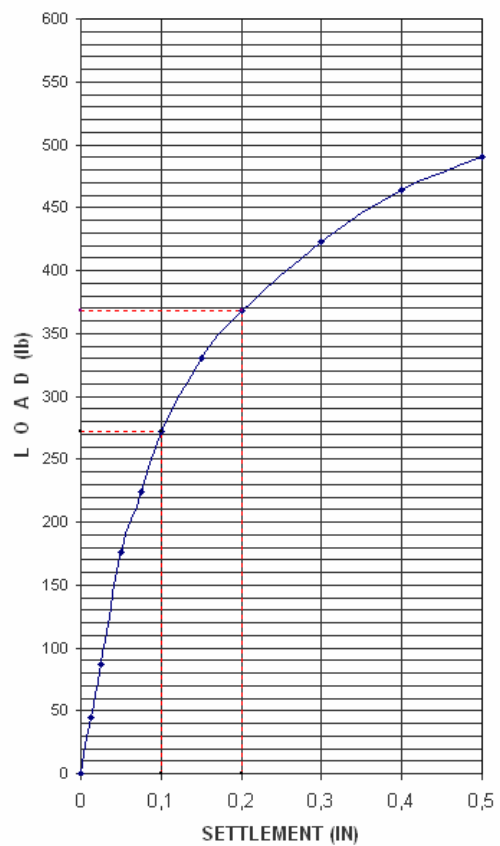
Weight of soil + mold	10290
Weight of mold	7315
Weight of soil	2975
Volume of soil	2164,50
Wet density	1,37
Dry density	1,06

Time (min)	Settl. (in)	Dial reading (cal. 32.0309)	Load (lb)
3/4	0,0125	1,40	44,8
3/2	0,025	2,70	86,5
1	0,050	5,50	176,2
1 1/2	0,075	7,00	224,2
2	0,100	8,50	272,3
3	0,150	10,30	329,9
4	0,200	11,50	368,4
6	0,300	13,20	422,8
8	0,400	14,50	464,4
10	0,500	15,30	490,1

Water content		
Wt. of wet soil + dish	164,40	156,80
Wt. of dry soil + dish	141,00	136,20
Wt. of dish	64,40	66,40
Wt. of water	23,40	20,60
Wt. of dry soil	76,60	69,80
Water content	30,55	29,51
Average	30,03	

CBR VALUE	
01"	02"
272,263	368,4
3000 x 100 %	4500 x 100 %
9,08 %	8,19 %
9,08 %	

GRAFIK HUBUNGAN ANTARA SETTLEMENT vs LOAD



CBR TEST

Soil sample :
 :
 Location : Buahbatu, Bandung
 Depth : 0,20 - 0,35
 Sample No. : 3

Form No. : I/6
 Test type : Standar AASHTO
 Date : 20 Juli 2006
 Tested by : Johnadi R. Purba

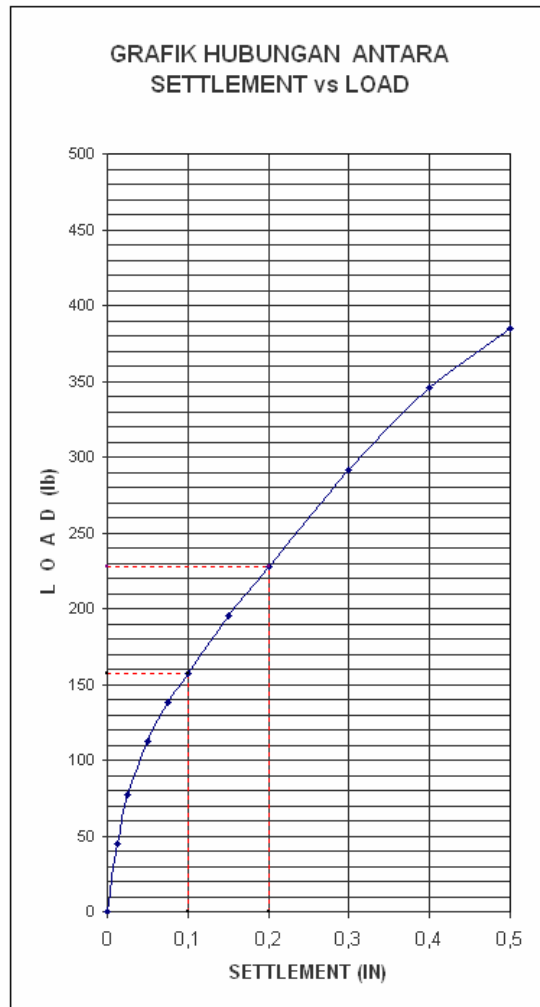
Number of Mold	E
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Weight of soil + mold	9640
Weight of mold	7280
Weight of soil	2360
Volume of soil	2167,00
Wet density	1,09
Dry density	0,75

Time (min)	Settl. (in)	Dial reading (cal. 32.0309)	Load (lb)
1/4	0,0125	1,40	44,8
1/2	0,025	2,40	76,9
1	0,050	3,50	112,1
1 1/2	0,075	4,30	137,7
2	0,100	4,90	157,0
3	0,150	6,10	195,4
4	0,200	7,10	227,4
6	0,300	9,10	291,5
8	0,400	10,80	345,9
10	0,500	12,00	364,4

Water content		
Wt. of wet soil + dish	274,90	224,00
Wt. of dry soil + dish	210,60	174,60
Wt. of dish	64,80	64,60
Wt. of water	64,30	49,40
Wt. of dry soil	145,80	110,00
Water content	44,10	44,91
Average	44,51	

CBR VALUE	
01"	02"
$\frac{156,951}{3000} \times 100 \%$	$\frac{227,4}{4500} \times 100 \%$
5,23 %	5,05 %
5,23 %	



CBR TEST

Soil sample :
 :
 Location : Kopo, Bandung
 Depth : 0,20 - 0,35
 Sample No. : 4

Form No. : I/6
 Test type : Standar AASHTO
 Date : 20 Juli 2006
 Tested by : Johnadi R. Purba

Number of Mold	E
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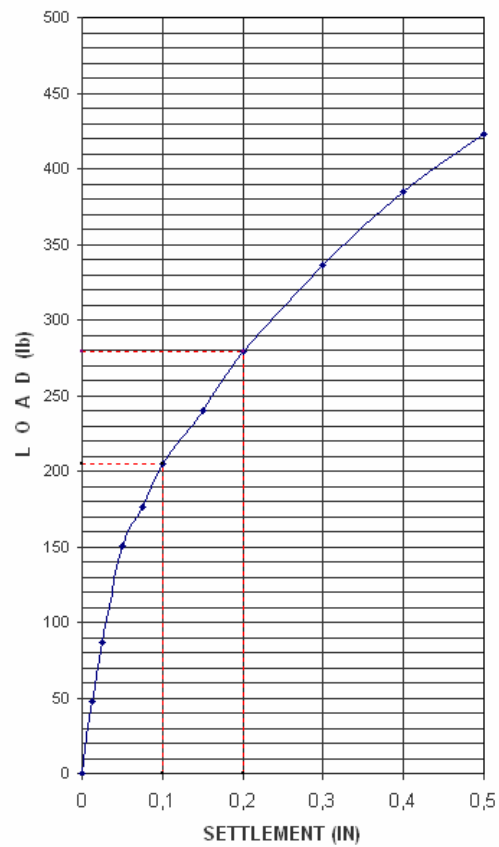
Weight of soil + mold	9565
Weight of mold	7410
Weight of soil	2155
Volume of soil	2164,50
Wet density	1,00
Dry density	0,72

Time (min)	Settl. (in)	Dial reading (cal. 32.0309)	Load (lb)
$\frac{1}{4}$	0,0125	1,50	48,0
$\frac{1}{2}$	0,025	2,70	86,5
1	0,050	4,70	150,5
$1\frac{1}{2}$	0,075	5,50	176,2
2	0,100	6,40	205,0
3	0,150	7,50	240,2
4	0,200	8,70	278,7
6	0,300	10,50	336,3
8	0,400	12,00	384,4
10	0,500	13,20	422,8

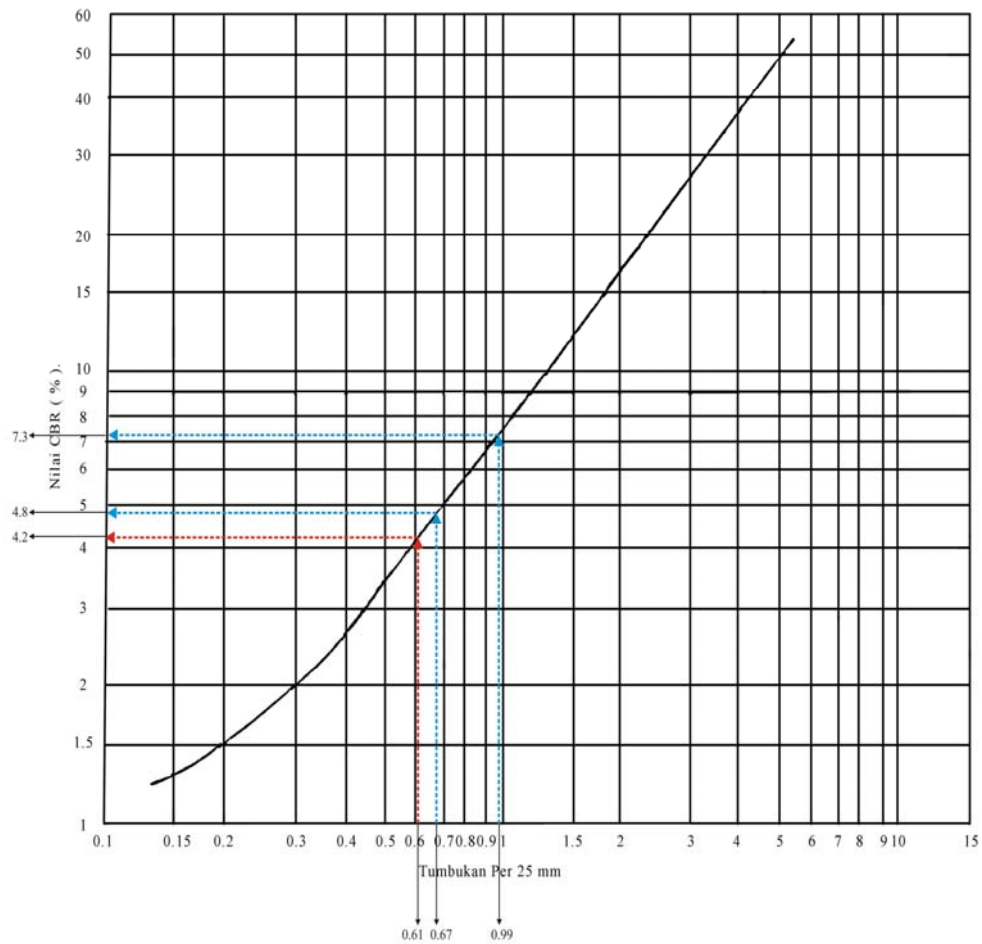
Water content		
Wt. of wet soil + dish	176,50	147,20
Wt. of dry soil + dish	144,60	124,80
Wt. of dish	64,40	66,80
Wt. of water	31,90	22,40
Wt. of dry soil	80,20	58,00
Water content	39,78	38,62
Average	39,20	

CBR VALUE	
01"	02"
$\frac{204,998}{3000} \times 100 \%$	$\frac{278,7}{4500} \times 100 \%$
6,83 %	6,19 %
6,83 %	

GRAFIK HUBUNGAN ANTARA SETTLEMENT vs LOAD



Lokasi : UKM
No : 1



Misal :

Tumbukkan ke 9 → Tumbukkan per 25 mm = 0,61 → Nilai CBR Grafik = 4,2 %
Tumbukkan ke 12 → Tumbukkan per 25 mm = 0,67 → Nilai CBR Grafik = 4,8 %
Tumbukkan ke 33 → Tumbukkan per 25 mm = 0,99 → Nilai CBR Grafik = 7,3 %

Nilai CBR yang dipakai = 4 % (Nilai terkecil)

PENCATATAN DYNAMIC CONE PENETROMETER (DCP)

KABUPATEN : Bandung
NOMOR RUAS : 2
NAMA RUAS :
PROYEK : Tugas Akhir
LOKASI KM : Setra Duta

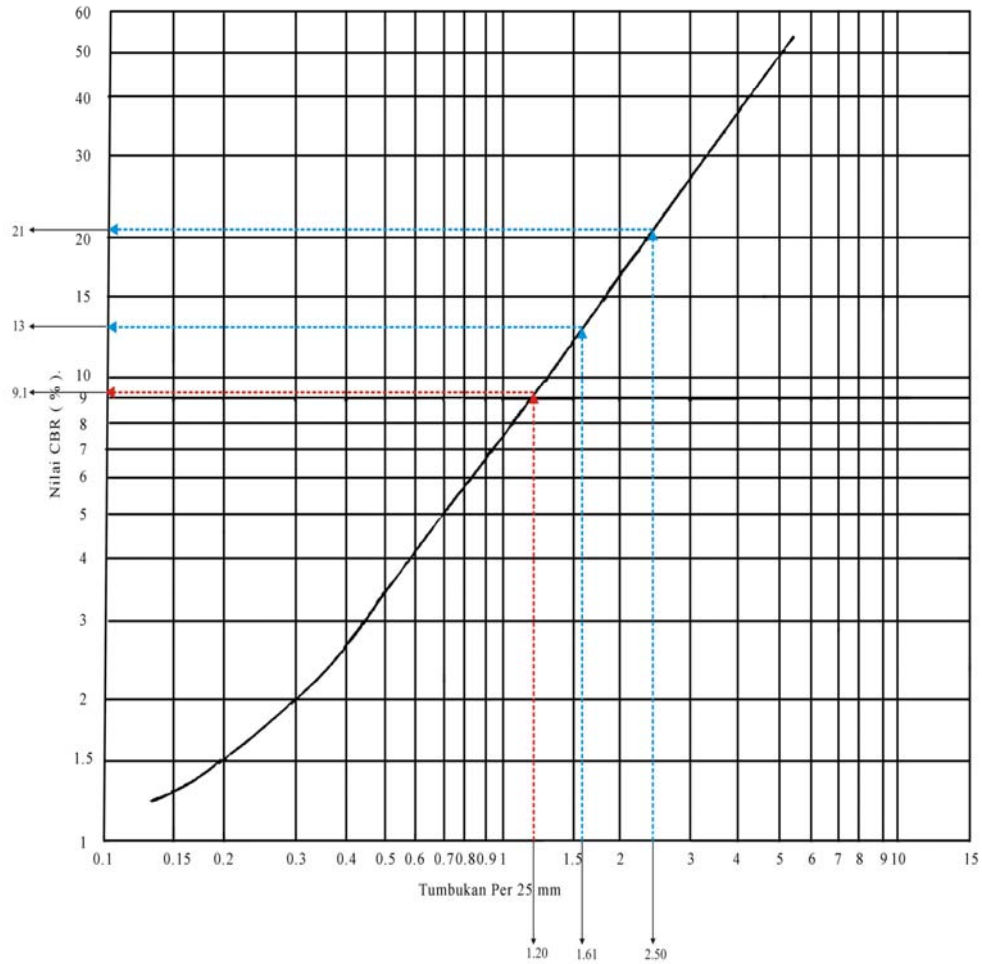
TAHGGAL : 14 Juli 2006
OPERATOR :
DIPERIKSA : Johnadi R. Purba
KONDISI :

HASIL PENCATATAN

TUMBUKAN (N)	PEMBACAAN MISTAR		PENETRASI (mm)	TUMBUKAN PER (25 mm)	NILAI CBR	
	(cm)	(mm)			GRAFIK	CBR (%)
0	0,5	5		-	-	-
1	1,5	15	10	2,50	21	9
2	2,5	25	20	2,50	21	9
3	4,0	40	35	2,14	18	9
4	6,0	60	55	1,82	15	9
5	7,5	75	70	1,79	14	9
6	12,0	120	115	1,30	10	9
7	13,0	130	125	1,40	11	9
8	14,0	140	135	1,48	12	9
9	15,0	150	145	1,55	12	9
10	16,0	160	155	1,61	13	9
11	18,0	180	175	1,57	12	9
12	20,0	200	195	1,54	12	9
13	25,0	250	245	1,33	10	9
14	28,5	285	280	1,25	10	9
15	30,0	300	295	1,27	10	9
16	32,5	325	320	1,25	10	9
17	33,8	338	333	1,28	10	9
18	35,8	358	353	1,27	10	9
19	36,4	364	359	1,32	10	9
20	37,5	375	370	1,35	11	9
21	39,0	390	385	1,36	11	9
22	40,0	400	395	1,39	11	9
23	41,5	415	410	1,40	11	9
24	43,0	430	425	1,41	11	9
25	44,4	444	439	1,42	11	9
26	46,4	464	459	1,42	11	9
27	47,8	478	473	1,43	11	9
28	49,0	490	485	1,44	11	9
29	49,8	498	493	1,47	12	9
30	51,0	510	505	1,49	12	9
31	51,8	518	513	1,51	12	9
32	54,8	548	543	1,47	12	9
33	57,0	570	565	1,46	12	9
34	59,8	598	593	1,43	11	9
35	62,0	620	615	1,42	11	9
36	65,2	652	647	1,39	11	9
37	68,0	680	675	1,37	11	9
38	72,0	720	715	1,33	10	9
39	75,8	758	753	1,29	10	9
40	78,5	785	780	1,28	10	9
41	81,8	818	813	1,26	10	9
42	85,0	850	845	1,24	10	9
43	88,8	888	883	1,22	9	9
44	92,1	921	916	1,20	9	9
45	95,5	955	950	1,18	9	9

Nilai CBR : 9 %

Lokasi : Setra Duta
No : 2



Misal

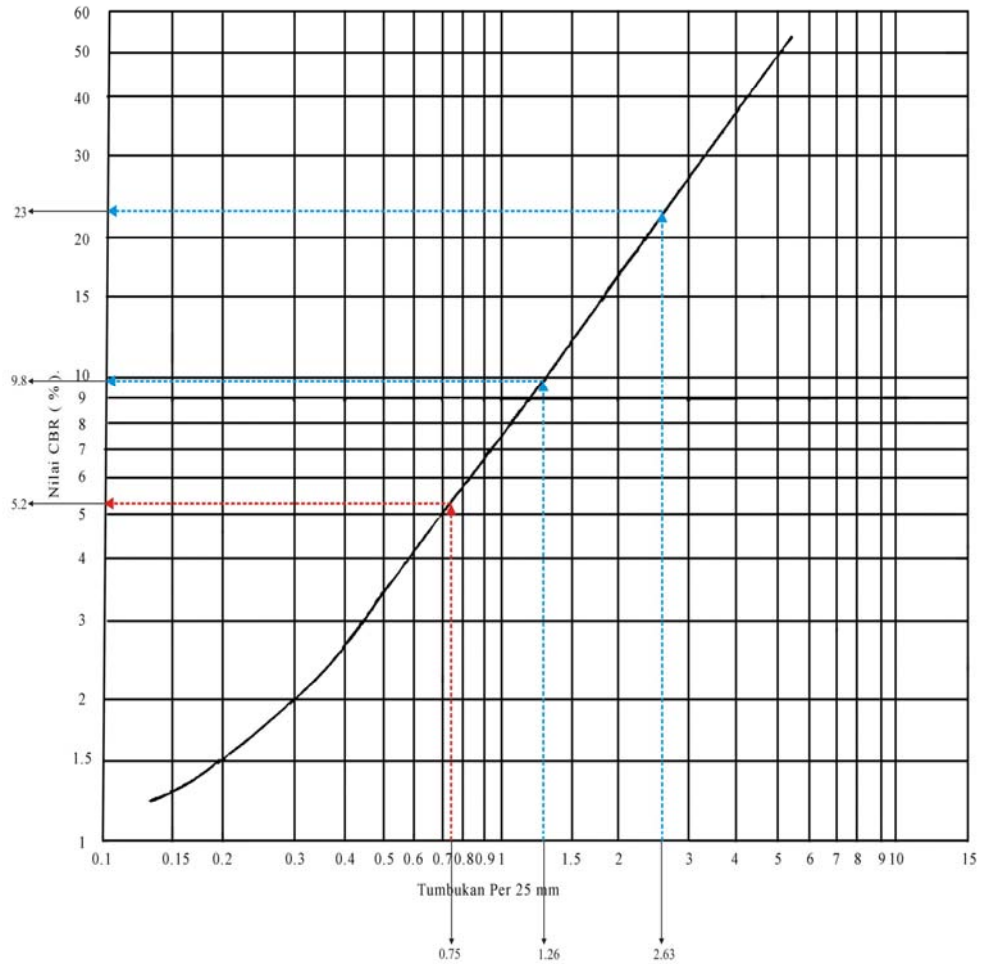
Tumbukkan ke 44 → Tumbukkan per 25 mm = 1,20 → Nilai CBR Grafik = 9,1 %

Tumbukkan ke 10 → Tumbukkan per 25 mm = 1,61 → Nilai CBR Grafik = 13 %

Tumbukkan ke 1 → Tumbukkan per 25 mm = 2,50 → Nilai CBR Grafik = 21 %

Nilai CBR yang dipakai = 9 % (Nilai terkecil)

Lokasi : Buah Batu
No : 3



Misal

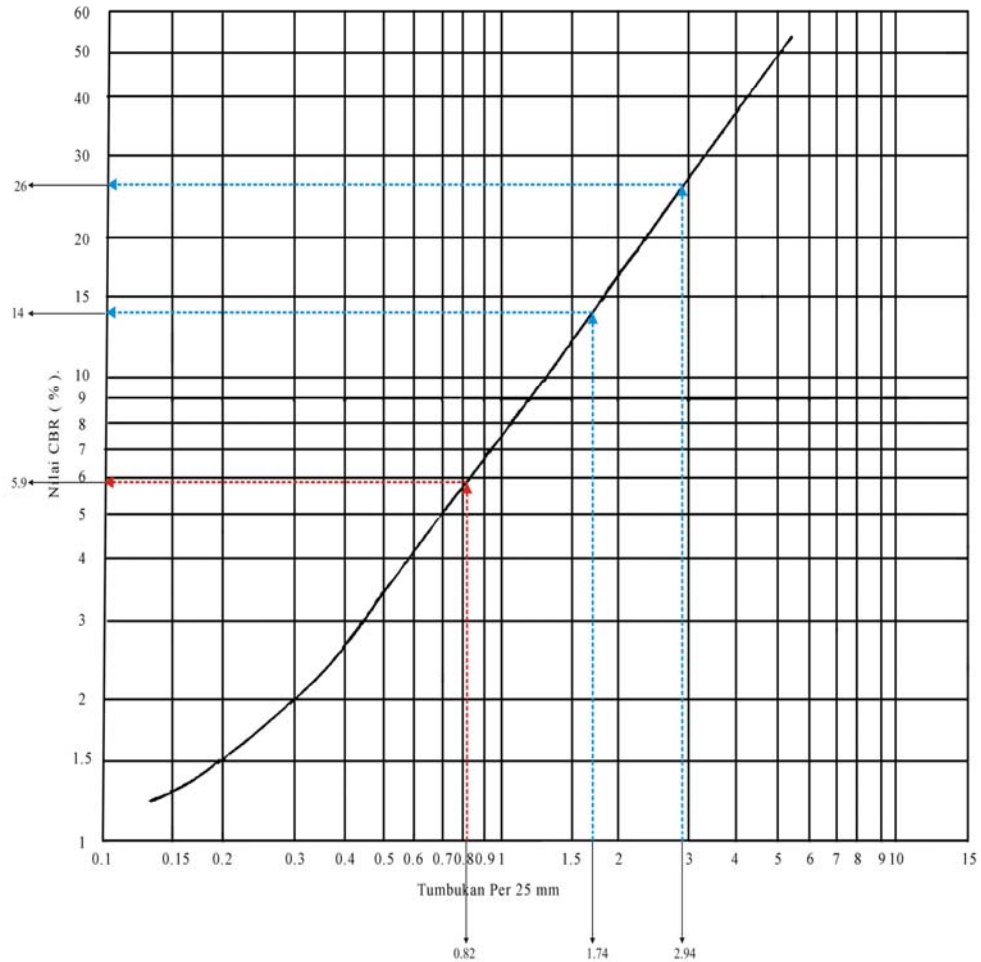
Tumbukkan ke 22 → Tumbukkan per 25 mm = 0,75 → Nilai CBR Grafik = 5,2 %

Tumbukkan ke 11 → Tumbukkan per 25 mm = 1,26 → Nilai CBR Grafik = 9,8 %

Tumbukkan ke 2 → Tumbukkan per 25 mm = 2,63 → Nilai CBR Grafik = 23 %

Nilai CBR yang dipakai = 5 % (Nilai terkecil)

Lokasi : Kopo
No : 4



Misal

Tumbukkan ke 30 → Tumbukkan per 25 mm = 0,82 → Nilai CBR Grafik = 5,9 %
Tumbukkan ke 17 → Tumbukkan per 25 mm = 1,74 → Nilai CBR Grafik = 14 %
Tumbukkan ke 2 → Tumbukkan per 25 mm = 2,94 → Nilai CBR Grafik = 26 %

Nilai CBR yang dipakai = 6 % (Nilai terkecil)

