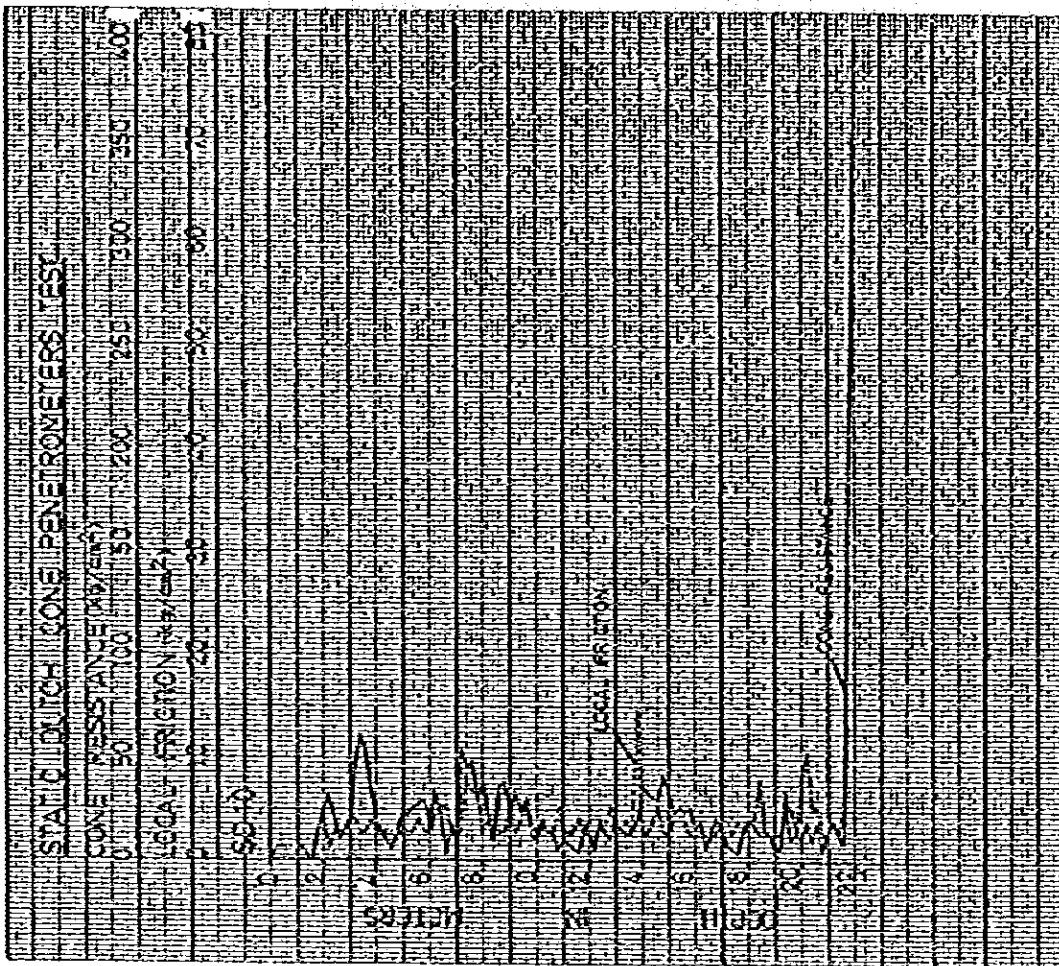
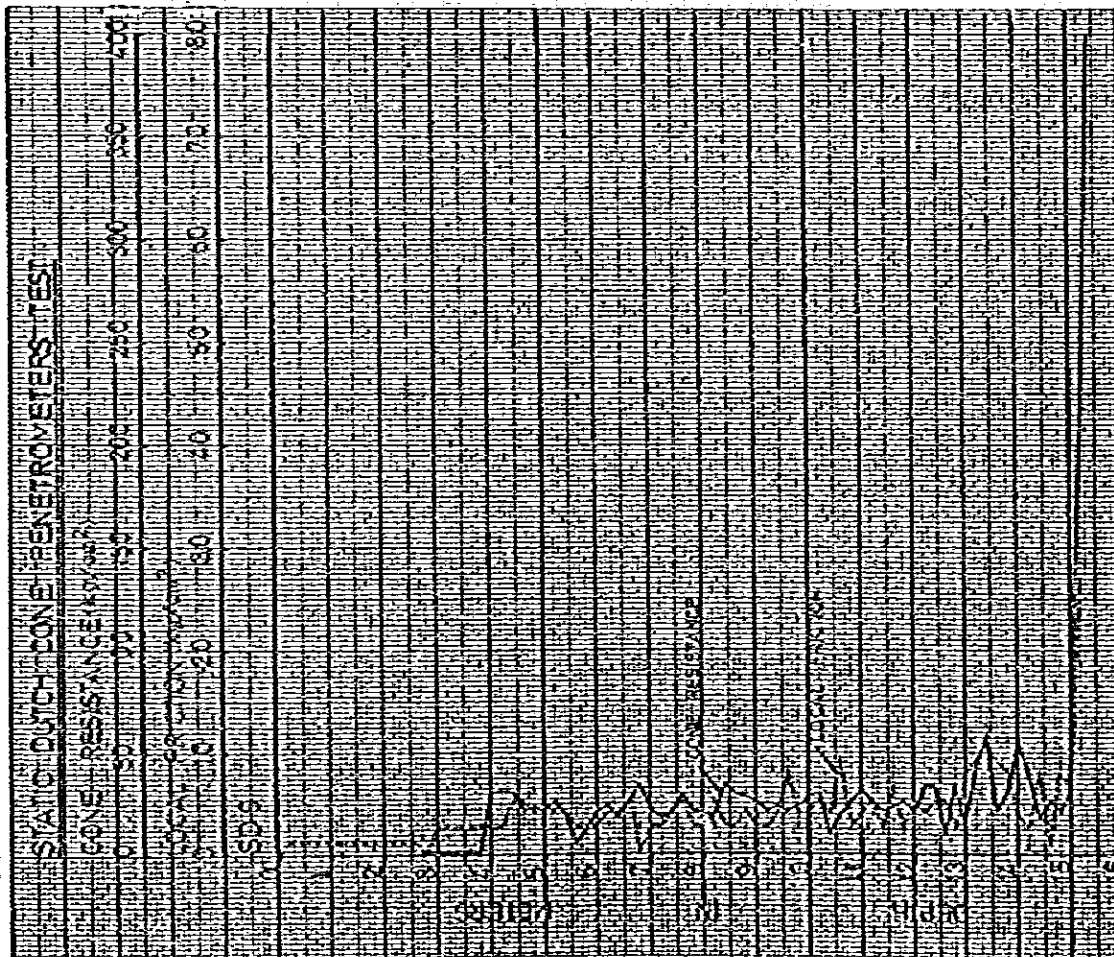
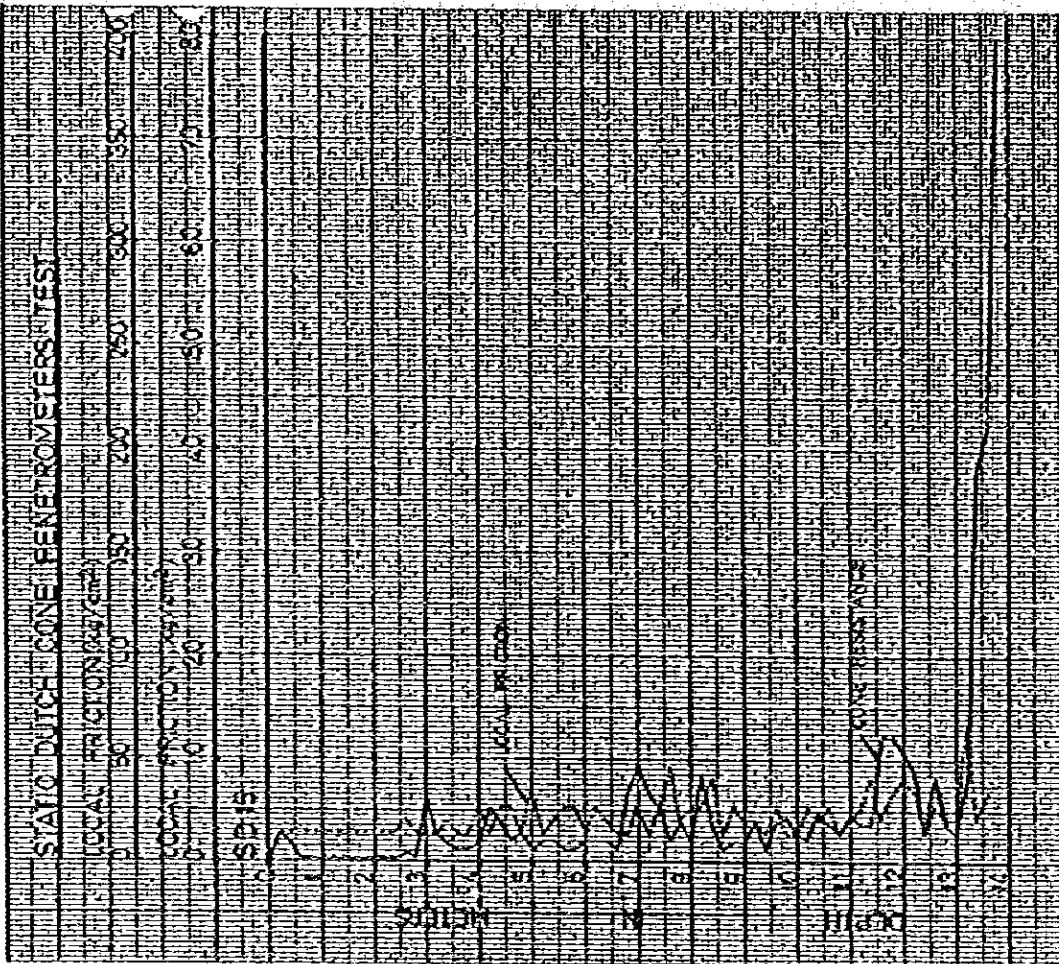
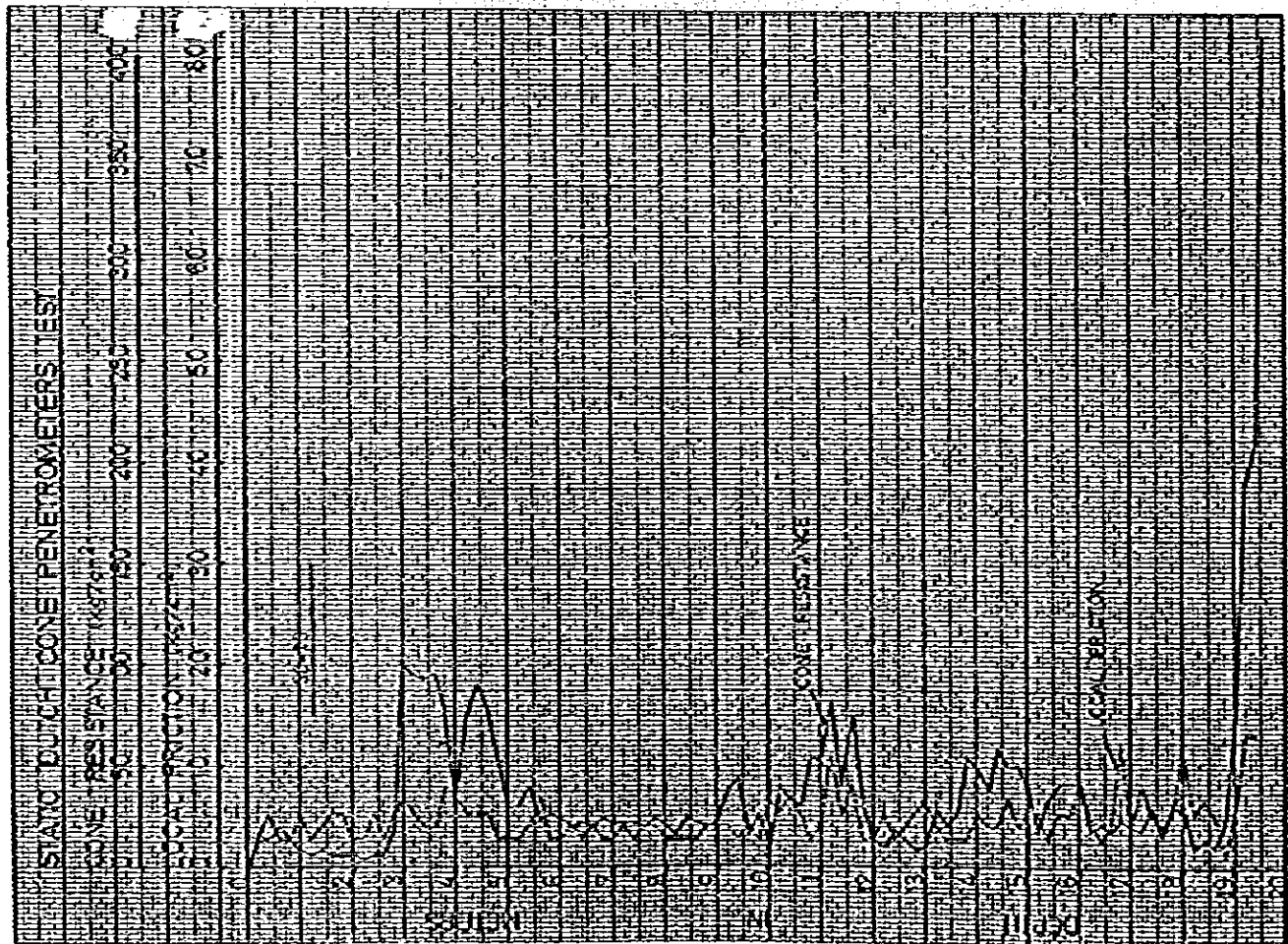


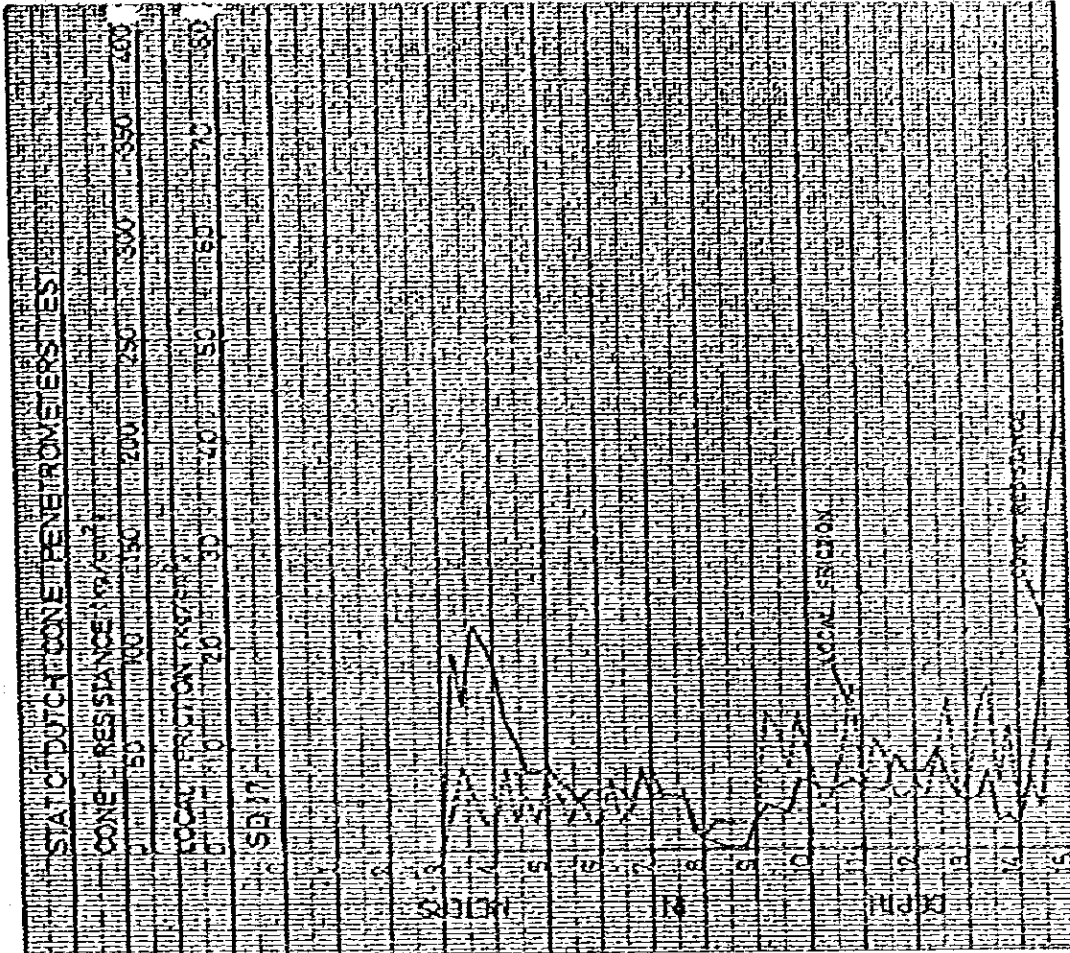
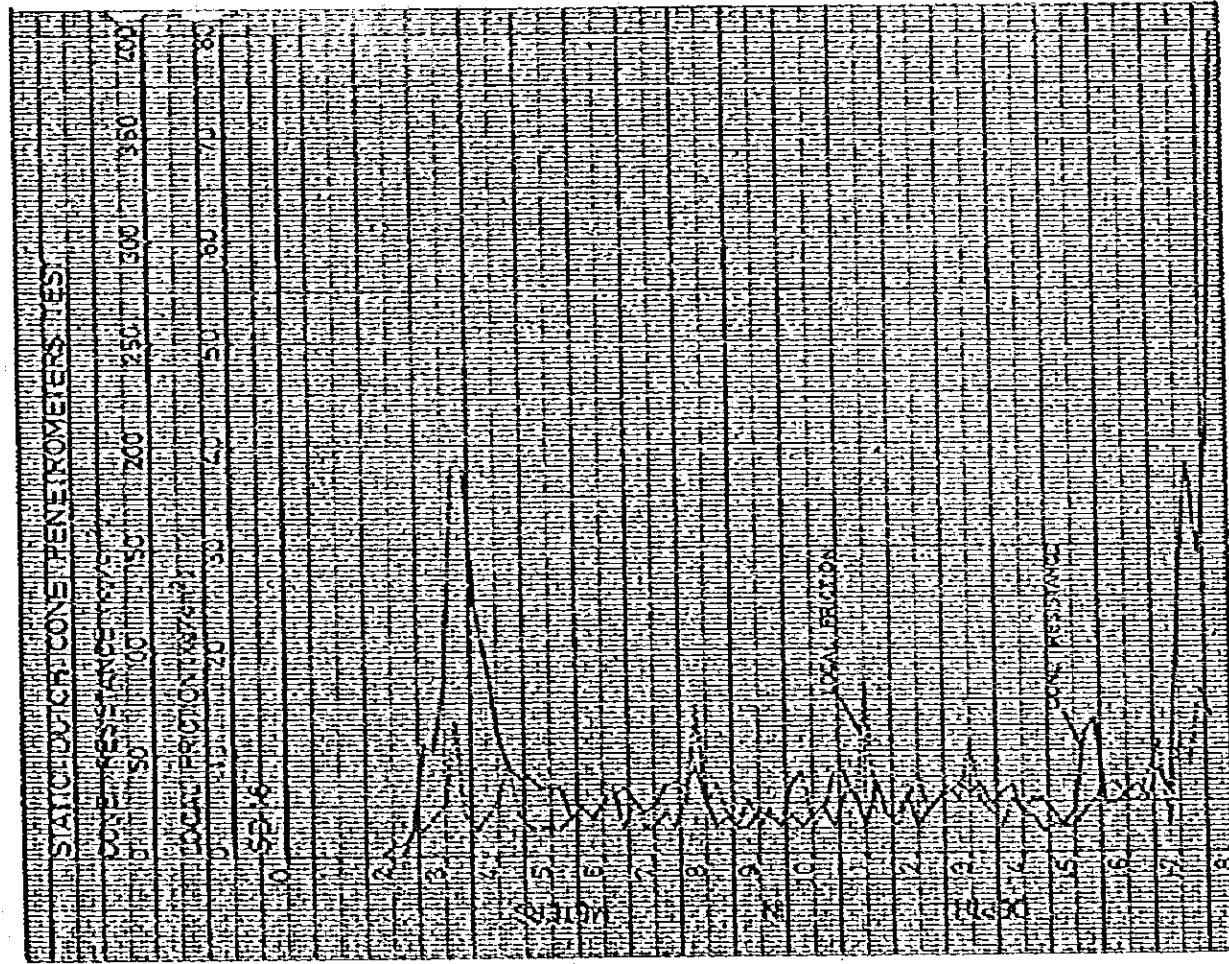
Project : Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other
 Purposes / Phase I at Sentul, Kuala Lumpur



Project : Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other
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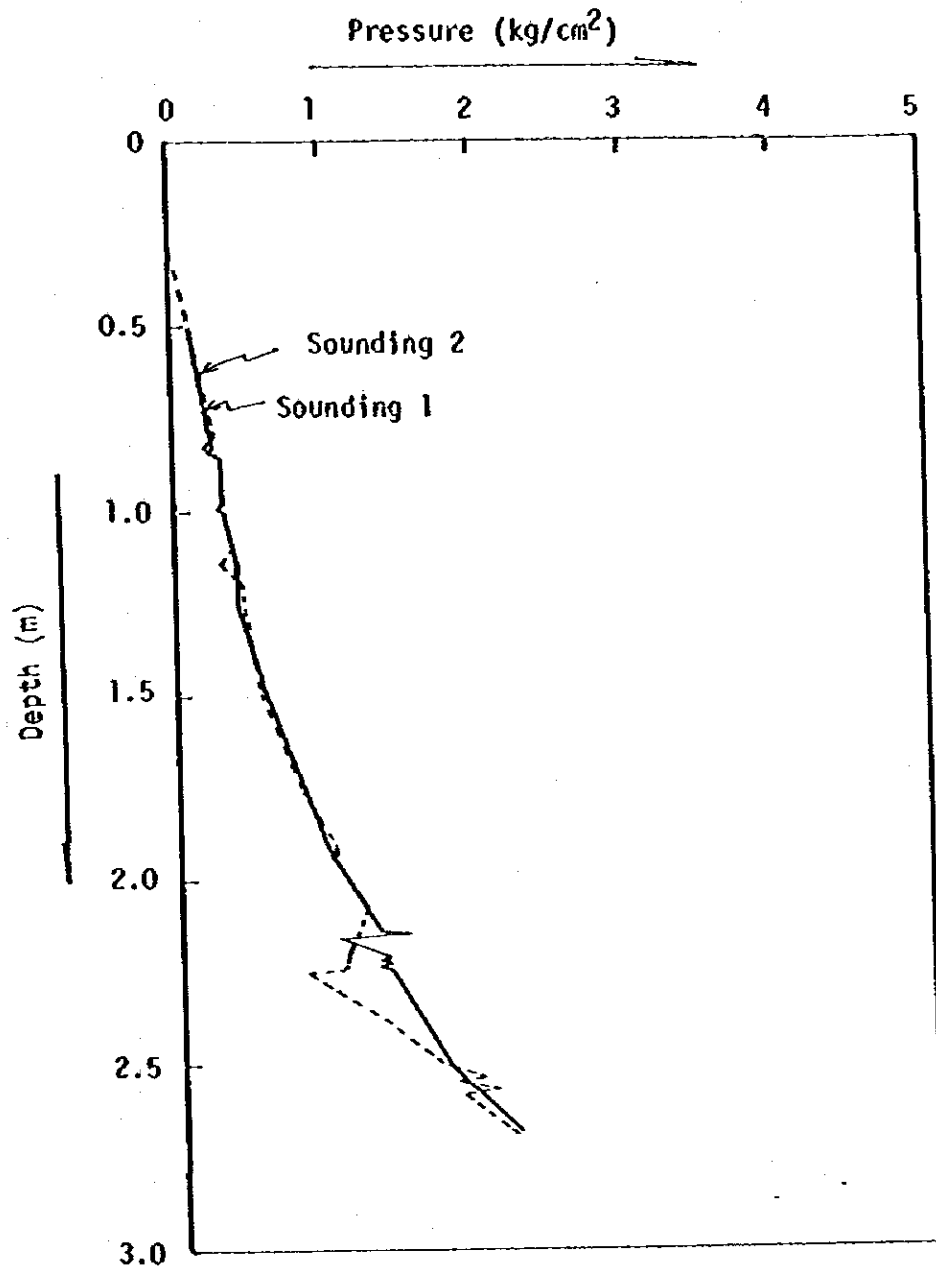
Project : Feasibility Study for the Reclamation Project of
 Examining Land for Housing Development and Other
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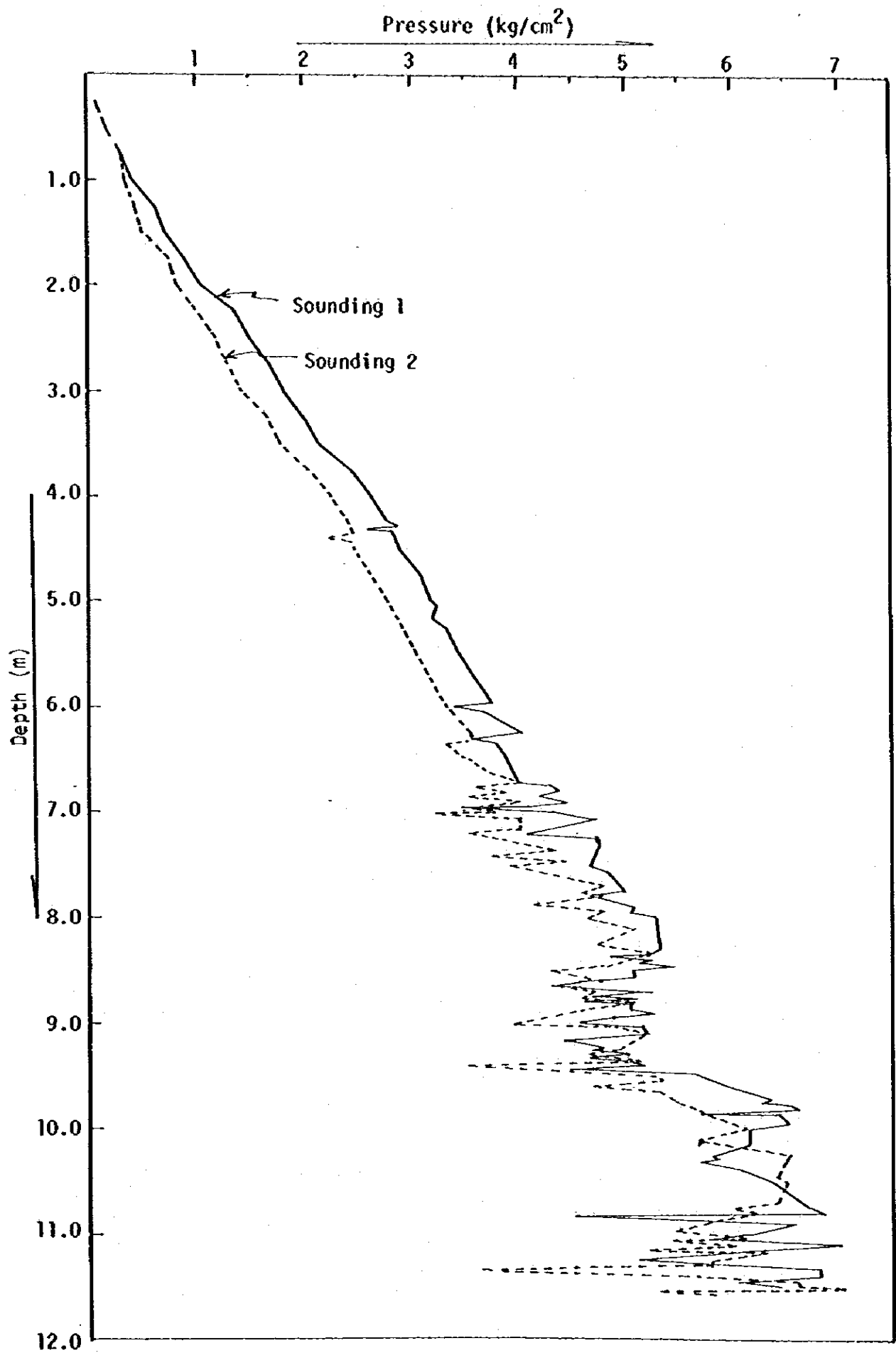
Project : Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other
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STATIC QUICHCONE PENETROMETERS TEST									
NO.	DATE	TIME	DEPTH	CONCRETE	RESISTANCE	DEPTH	CONCRETE	RESISTANCE	DEPTH
1			20		150	400		300	400
2			30		150	400		300	400
3			40		150	400		300	400
4			50		150	400		300	400
5			60		150	400		300	400
6			70		150	400		300	400
7			80		150	400		300	400
8			90		150	400		300	400
9			100		150	400		300	400
10			110		150	400		300	400
11			120		150	400		300	400
12			130		150	400		300	400
13			140		150	400		300	400
14			150		150	400		300	400
15			160		150	400		300	400
16			170		150	400		300	400
17			180		150	400		300	400
18			190		150	400		300	400
19			200		150	400		300	400
20			210		150	400		300	400
21			220		150	400		300	400
22			230		150	400		300	400
23			240		150	400		300	400
24			250		150	400		300	400
25			260		150	400		300	400
26			270		150	400		300	400
27			280		150	400		300	400
28			290		150	400		300	400
29			300		150	400		300	400
30			310		150	400		300	400
31			320		150	400		300	400
32			330		150	400		300	400
33			340		150	400		300	400
34			350		150	400		300	400
35			360		150	400		300	400
36			370		150	400		300	400
37			380		150	400		300	400
38			390		150	400		300	400
39			400		150	400		300	400
40			410		150	400		300	400
41			420		150	400		300	400
42			430		150	400		300	400
43			440		150	400		300	400
44			450		150	400		300	400
45			460		150	400		300	400
46			470		150	400		300	400
47			480		150	400		300	400
48			490		150	400		300	400
49			500		150	400		300	400
50			510		150	400		300	400
51			520		150	400		300	400
52			530		150	400		300	400
53			540		150	400		300	400
54			550		150	400		300	400
55			560		150	400		300	400
56			570		150	400		300	400
57			580		150	400		300	400
58			590		150	400		300	400
59			600		150	400		300	400
60			610		150	400		300	400
61			620		150	400		300	400
62			630		150	400		300	400
63			640		150	400		300	400
64			650		150	400		300	400
65			660		150	400		300	400
66			670		150	400		300	400
67			680		150	400		300	400
68			690		150	400		300	400
69			700		150	400		300	400
70			710		150	400		300	400
71			720		150	400		300	400
72			730		150	400		300	400
73			740		150	400		300	400
74			750		150	400		300	400
75			760		150	400		300	400
76			770		150	400		300	400
77			780		150	400		300	400
78			790		150	400		300	400
79			800		150	400		300	400
80			810		150	400		300	400
81			820		150	400		300	400
82			830		150	400		300	400
83			840		150	400		300	400
84			850		150	400		300	400
85			860		150	400		300	400
86			870		150	400		300	400
87			880		150	400		300	400
88			890		150	400		300	400
89			900		150	400		300	400
90			910		150	400		300	400
91			920		150	400		300	400
92			930		150	400		300	400
93			940		150	400		300	400
94			950		150	400		300	400
95			960		150	400		300	400
96			970		150	400		300	400
97			980		150	400		300	400
98			990		150	400		300	400
99			1000		150	400		300	400

Project : Feasibility Study for the Reclamation Project of
Examining Land for Housing Development and Other
Purposes / Phase I at Sentul, Kuala Lumpur



Result of Pore Water Pressure Sounding (Sub-section A'')



Result of Pore Water Pressure Sounding (Sub-section B)

FIG. DRILLING LOG

Remarks

Feasibility Study for the Reclamation Project of
Ex-mining Land for Housing Development and Other

Name of Project Purposes - Phase I

Type of Drilling Percussion

Site Number Sub-section A Elevation RL +36.4 m

Date 15/2/80 to 16/2/80

Site Sentul Water Table CL -2.58 m

Order Geotechnique (M) (Kiso-Jibin)

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery									
									Depth in m.	Sampling for Lab.	Pen-Value	Blows Per Each 10cm	(N-Value)					
													10	20	30	40	50	
1	32.31	0.15	0.15		Silty Clay	Greyish white	Very soft	With roots	1.00									
2									1.45	P-1	0	Self penetration under weight of hammer						
3									2.00									
4									2.45	P-2	0	Self penetration under weight of hammer						
5	32.60	3.80	3.65		Silty Clay	Greyish white	Very soft		3.00									
6									3.45	P-3	0	Self penetration under weight of hammer						
7	31.80	4.60	0.80		Silty Fine Sand	Grey	Very loose	With clay	4.00									
8									4.45	P-4	0	Self penetration under weight of hammer						
9									5.15	P-5	4	1	1	1	2		5.00	Permeability Test
10									5.45								5.50	
11									6.15	P-6	8	3	3	1	2			
12									7.15	P-7	7	2	3	1	2			
13									8.15									
14									8.45	P-8	4	1	2	1				
15	26.65	9.75	5.15		Sand	Grey	loose	With gravels	9.15									
16									9.45	P-9	5	1	2	2				
17									10.15									
18	25.70	10.70	0.95		Clayey Silt	Grey	Very soft	With traces of sand	10.45	P-10	1	0	0					
19									10.70	P-11	3	2	2					
20	25.60	10.80	0.10		Rock or Gravel				10.80									50 blows/10 cm
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		

FIG. DRILLING LOG

Feasibility Study for the Reclamation Project of
Ex-mining Land for Housing Development and Other
Purposes - Phase I

Name of Project

Type of Drilling Percussion

Site Sub-section A' Elevation RL +36.5 m

Date 17/1/80 to 19/1/80

Water Table GL -2.505 m

Order Geotechnique (H) (Kiso-Jib)

Remarks

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery							
									Depth in m.	Sampling for Lab.	N-N Value	Blows Per Each 10cm	(N-Value)			
												50	20	10	50	
	36.50															
1	36.40	0.10	0.10		Clayey Silt	Greyish brown	Very soft	With roots								Core Recovery
2									1.15		0					
3									1.45	P-1	0					
4									2.15		0					
5									2.45	P-2	0					
6	32.65	3.85	3.75		Silty Clay	Greyish white	Very soft		3.15		0					
7									3.45	P-3	0					
8	31.70	4.80	0.95		Silty Clay	Grey	Very soft		4.15	P-4	0					
9	30.65	5.85	1.05		Sand	Grey	Loose	Sand is fine to medium grained. With gravel	5.15	P-5	6	2	2	2	2	5.00
10	29.50	7.00	1.15		Sand	Grey	Loose	Sand is fine to medium grained. With gravel	5.45	P-5	6	2	2	2	2	5.50
11	28.25	8.25	1.25		(Sand and Gravel)	Brownish white		Decomposed limestone?	6.15	P-6	2	1	0	1		
12									7.00	P-7	50	8	25			50 blows/15cm
13	27.05	9.45	0.80		Sandy Silt	Yellowish brown			7.15	P-8	29	12	9	8		
14	26.47	10.03	0.58		Sandy Silt	Yellowish white			7.95							
15									8.25	P-9	33	5	11	17		
16									9.15							
17									9.45	P-9	33	5	11	17		
18									9.90							
19									10.03	P-10	56	25				50 blows/15cm
20								End of Drilling								

FIG. DRILLING LOG

Remarks

Feasibility Study for the Reclamation Project of
Ex-mining Land for Housing Development and Other
Purposes - Phase 1

Name of Project: Ex-mining Land for Housing Development and Other Purposes - Phase 1 Type of Drilling: Percussion
 Hole Number: Sub-section A Elevation: RL +36.4 m Date: 20/1/80 to 25/1/80
 Site: Sentul Water Table: GL -2.52 m Driller: Geotechnique (H) (Kiso-Jibya)

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery									
									Depth in m.	Sampling for Lab.	W.P.V. Value	Blows Per Each 10cm	(N-Vs-A)					
													10	20	30	40	50	
1	36.38	0.10	0.10		Silty Clay	Greyish brown		Top soil. With roots	1.15	P-1	0	Self penetration under weight of hammer						Core Recovery 1
2									2.15	P-2	0	Self penetration under weight of hammer						
3									3.15	P-3	0	Self penetration under weight of hammer						
4	32.60	3.80	3.70		Silty Clay	Greyish white	Very soft		4.15	P-4	3	1	1	1				
5								Fine to medium	5.15	P-5	5	2	2	1				5.00
6								With some gravel	6.15	P-6	4	2	1	1				5.50
7									7.15	P-7	8	2	2	4				
8	28.40	8.00	4.20		Sand	Grey	Loose		8.15	P-8	9	2	3	4				
9								Medium to coarse	9.15	P-9	3	2	1	1				
10								With gravel φ = 5 - 20cm	10.15	P-10	2	0	1	1				10.00
11	25.60	10.80	2.80		Sand	Grey	Loose		10.45	P-10	2	0	1	1				10.50
12	24.50	11.90	1.10		Silty Sand	Grey	Loose	Sand is medium to coarse graded. With some gravel	11.15	P-11	5	2	2	1				
13	23.55	12.85	0.95		Sandy Clay	Grey	Medium		12.15	P-12	6	3	1	2				
14	22.70	13.70	0.85		Sand with Gravel	Grey	Loose	With clay	13.15	P-13	8	3	2	3				
15	21.90	14.50	0.80		Silty Clay	Greyish white	Soft	Traces of fine sand	14.15	P-14	4	1	1	2				
16	20.65	15.75	1.25		Sandy Clay	Grey	Soft	Traces of fine sand	15.15	P-15	3	0	2	1				15.00
17								Sand is medium to coarse graded	16.15	P-16	6	3	2	1				15.50
18	18.50	17.90	2.15		Sand	Grey	Loose		17.15	P-17	5	1	2	3				
19	18.00	18.40	0.50		Silty Clay	Grey	Stiff	With traces of fine sand and gravel	18.15	P-18	13	3	4	6				
20	17.20	19.20	0.80		Fine Sand	Greyish white	Very dense	Weathered limestone	19.15	P-19	75	5	-	-				19.00
21								End of Drilling	19.20									19.20
22																		50 blows/5cm
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		

FIG. DRILLING LOG

Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other
 Name of Project Purposes - Phase I

Type of Drilling Percussion

Hole Number Sub-section B Elevation RL 136.20 m

Date 12/2/80 to 14/2/80

Site Sentul Water Table QL -2.15 m

Driller Geotechnique (II) (Kiso-Jiban)

Remarks

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery									
									Depth in m.	Sampling for Lab.	SPT-Value	Blows Per Foot (10cm)	(N-Value)					
													10	20	30	40	50	
1	35.80	0.20	0.20		Silty Clay	Greyish brown	Very Soft	Top soil. With roots	1.00									
2									1.45	P-1	0	Self penetration under weight of rod						
3									2.00									
4									2.45	P-2	0	Self penetration under weight of rod						
5									3.00									
6									3.45	P-3	0	Self penetration under weight of rod						
7									4.00									
8									4.45	P-4	0	Self penetration under weight of rod						
9									5.00									
10									5.45	P-5	0	Self penetration under weight of rod						
11									6.00									
12	29.40	6.80	6.60		Silty Clay	Greyish white	Very Soft		6.45	P-6	0	Self penetration under weight of hammer						
13								Traces of fine sand	7.00									
14									7.45	P-7	0	Self penetration under weight of hammer						
15									8.15									
16									8.45	P-8	1	1						
17									9.10									
18									9.45	P-9	0	Self penetration under weight of hammer						
19									10.15									
20									10.45	P-10	1	1						
21									11.15									
22	24.20	12.00	5.20		Silty Clay	Grey	Very soft		11.45	P-11	1	1						
23	23.20	13.00	1.00		Silty Sand	Greyish white	Very loose	Sand is fine grained	12.15	P-12	4	1	1	1	2			
24									12.45									
25									13.15	P-13	20	5	7	7	9			
26									14.15	P-14	23	7	7	9				
27	21.20	15.00	2.00		Silty Sand	Greyish white	Medium	Sand is fine grained weathered limestone	15.15	P-15	32	12	10	10				
28									15.45									
29									16.15	P-16	50	50						
30									16.25									
31									17.15	P-17	35	14	11	10				
32	17.40	18.80	3.80		Silty Sand	Grey	Dense		18.15	P-18	50	12	27	17				
33									18.45									
34									18.15	P-19	27	6	7	14				
35									20.15	P-20	35	13	12	10				
36									20.45									
37	14.45	21.75	2.95		Silty Sand	Grey	Medium to Dense	Sand is fine grained weathered limestone?	21.15	P-21	42	12	13	17				
38									22.15									
39	13.20	23.00	1.25		Silty Sand	Grey	Loose	Sand is fine grained weathered limestone?	22.45	P-22	8	2	2	4				
40									23.15									
41									23.45	P-23	21	5	6	10				
42	11.75	24.45	1.45		Silty Sand	Greyish white	Medium	Sand is fine grained weathered limestone?	24.15	P-24	24	8	8	8				
43									24.45									
44									25.15	P-25	26	7	10	9				
45	10.20	26.00	1.55		Silty Sand	Grey	Medium	Sand is fine grained weathered limestone?	25.45									
46									25.95	P-26	50	50						
47								End of Drilling	26.00									
48																		
49																		
50																		

FIG. DRILLING LOG

Remarks

Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other
 Name of Project Purposes - Phase I

Type of Drilling Percussion

Hole Number No. 56-1 Elevation RL +35.40 m Date 28.12.79 to 29.12.79

Site Sentul Water Table GL -2.15 m Driller Geotechnique (M) (Kiso-Jitpa)

Scale in m	Elevation in m	Depth in m	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery									
									Depth in m	Sampling for Lab.	Pen-Value	Blows Per Each 10cm	(N-value)					
													10	20	30	40	50	
	35.80																	
	35.65	0.75	0.75		Silty Clay	Light brownish grey	Very soft	With roots	1.00		0	Self penetration under weight of hammer						
								Traces of fine sand	1.45	P-1	0	Self penetration under weight of hammer						
									2.00									
									2.45	P-2	0	Self penetration under weight of hammer						
									3.15	P-3	1							
									4.15									
									4.45	P-4	1							
									5.15	P-5	1							
	29.90	6.50	5.75		Silty Clay	Brownish grey	Very soft		8.15	P-6	1							
									7.15	P-7	4	1	1	2				
	28.40	8.00	1.50		Silty Clay	Grey	Soft	With gravel and some sand	8.15	P-8	5	1	2	2				
								With sand and gravel	8.15	P-9	4	1	1	2				
									10.15									
	24.90	11.50	3.50		Silty Clay	Dark grey	Medium		10.15	P-10	6	2	2	2				
									11.15	P-11	5	1	2	2				
								With sill. Sand is coarse graire gravel is 25-30cm	12.15	P-12	8	2	2	4				
	24.00	13.00	1.50		Sand and Gravel	Dark grey	Loose		13.00	P-13	2	2	2					
	23.35	13.05	0.05		Sand and Gravel	Light grey	Very dense	Heavily weathered limestone	13.05									
								End of Drilling										

FIG. DRILLING LOG

Feasibility Study for the Reclamation Project of
 Ex-mining Lands for Housing Development and Other

Name of Project Purposes - Phase I

Type of Drilling Percussion

Hole Number No. SB-2 Elevation RL +37.5 m

Date 9/1/80 to 10/1/80

Site Sentul Water Table GL -2.31 m

Driller Geotechnique (M) (Kiso-Jibah)

Remarks

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery							
									Depth in m.	Sampling for Lab.	Wet Value	Blows Per Each 10cm	(N-Value)			
												10	20	30	40	50
	+37.50															
1	+37.35	0.15	0.15	x x x x x x x x x x	Silty Sand	Greyish brown	Very loose	With roots	1.15	P-1	1	0	0	1		
2								Traces of fine sand	1.45							
3								Very soft	2.00							
4									2.45	P-2	0					
5									3.00							
6	+33.42	4.08	3.93	x x x x x x x x x x	Clayey Silt	Greyish brown			3.45	P-3	0					
7									4.15							
8								Traces of fine sand	4.45	P-4	1	0	0	1		
9									5.15							
10									5.45	P-5	2	0	1	1		
11									6.15							
12								Very soft	6.45	P-6	2	0	1	1		
13									7.15							
14	+29.00	8.50	4.42	x x x x x x x x x x	Silty Clay	Greyish brown			7.45	P-7	2	1	0	1		
15									8.15							
16	+28.80	8.70	0.20	x x x x x x x x x x	Sand with Gravel	Grey white	Very Dense	heavily weathered Limestone	8.45	P-8	1	0	1	0		
17									8.50	P-9						
18								End of Drilling	8.51							
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																

FIG. DRILLING LOG

Remarks

Feasibility Study for the Reclamation Project of
 Ex-mining Land for Housing Development and Other
 Name of Project Purposes - Phase I Type of Drilling Percussion
 Hole Number No. SB-3 Elevation RL +35.9 m Date 7.1.80 to 8.1.80
 Site Sentul Water Table GL -2.20 m Driller Geotechnique (M) (Kiso-Jibgn)

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery								
									Depth in m.	Sampling for Lab.	N-Value	Blows Per Each 10cm	(N-Value)				
												10	20	30	40	50	
	+35.90																
1	+34.40	1.50	1.50		Silty Clay	Bluish grey	Very soft	With roots	1.00	P-1	0	Self penetration under weight of hammer					
2									1.45								
3									2.15	P-2	2	1	1	1			
4									2.45								
5									3.00								
6	+31.40	4.50	3.00		Silty Clay	Light Greyish brown	Very soft		3.45	P-3	0	Self penetration under weight of hammer					
7									4.00								
8									4.45	P-4	0	Self penetration under weight of hammer					
9									5.15								
10									5.45	P-5	3	1	1	1			
11									6.15								
12									6.45	P-6	4	1	2	1			
13									7.15								
14									7.45	P-7	3	1	1	1			
15									8.15								
16									8.45	P-8	5	1	2	2			
17									9.15								
18									9.45	P-9	6	2	2	2			
19									10.15								
20	28.40	7.50	3.00		Sand	Grey	Loose	Sand is medium to coarse grained	10.45	P-10	8	3	2	3			
21									10.50								
22									10.52	P-11	50/2cm	50 blows/2cm					
23	25.40	10.50	3.00		Sand	Grey	Medium	Sand is coarse grained.									
24																	
25	25.42	10.52	0.02		Gravel	Greyish white	Hard	Gravel is #10 to 15 mm									
26																	
27								End of Drilling									
28																	
29																	
30																	
31																	
32																	
33																	
34																	
35																	
36																	
37																	
38																	
39																	
40																	

FIG. DRILLING LOG

Feasibility Study for the Reclamation Project of
Ex-mining Land for Housing Development and Other

Name of Project Purposes - Phase I

Type of Drilling Percussion

Hole Number No. SB-4 Elevation RL +37.5' m

Date 4/1/80 to 5/1/80

Site Sentul Water Table GL -2.65 m

Driller Geotechnique (M) (Kiso-Jibhan)

Remarks

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery											
									Depth in m.	Sampling for Lab.	Blows Per Each 10cm	(N-Value)								
									10	20	30	40	50							
	37.50																			
	37.10	0.40	0.40		Sandy Silt	Grey	Loose	Sand is fine grained with root traces of clay	1.45	P-1	1	0	2							
1									2.00	P-2	0	1								
2									2.45	P-2	0	1								
3									3.15	P-3	1	0	0	1						
4					Silty Clay	Greyish white	Very soft	Traces of fine sand	4.00		0	1								
5	32.60	4.90	4.50					Medium to coarse sand	4.45	P-4	0	1								
6									5.15	P-5	4	1	1	2						
7									6.45	P-6	5	1	2	2						
8	30.00	7.50	2.60		Sand	Grey	Loose		7.15	P-7	7	2	2	3						
9								Sand is medium to coarse grained.	8.15	P-8	9	2	3	4						
10								With gravel (Ø 5 - 20mm)	9.15	P-9	8	2	3	3						
11								With fragments of limestone (Ø 30 - 50mm)	10.15	P-10	9	2	3	4						
12	24.80	12.70	5.20		Sand	Greyish white	Medium		10.45	P-10	9	2	3	4						
13					Silty Sand	Grey	Loose	Sand is fine grained	11.15	P-11	9	2	3	3						
14	23.90	13.60	0.90		Silty Sand	Grey	Loose	With some clay.	12.15	P-12	8	2	2	4						
15	23.00	14.50	0.90		Silty Sand	Grey	Loose	Sand is medium to coarse	13.15	P-13	5	1	2	2						
16									14.15	P-14	4	1	1	2						
17	20.90	16.60	2.10		Silty Sand	Grey	Medium	Sand is coarse grained	15.15	P-15	6	2	2	2						
18								Sand is fine to medium grained with silt	16.15	P-16	7	2	2	3						
19	19.00	18.50	1.90		Sand	Grey	Loose		17.15	P-17	8	2	2	4						
20	17.50	20.00	1.50		Sand	Grey	Medium	Sand is coarse grained	17.45	P-17	8	3	2	3						
21	17.49	20.01	0.01		Sand with Gravel			Weathered limestone	18.15	P-18	8	3	2	3						
22								End of Drilling	19.15	P-19	11	3	4	4						
23									20.00	P-20	5	1	5							
24									20.01											
25																				
26																				
27																				
28																				
29																				
30																				

FIG. DRILLING LOG

Remarks

Feasibility Study for the reclamation project of
 Ex-mining Land for Housing Development and Other
 Name of Project Purposes - Phase I

Type of Drilling Percussion

Hole Number No. SB-5 Elevation PL +36.9 m Date 7/1/89 to 8/1/89

Site Sentul Water Table GL -2.15 m Driller Geotechnique (M) (Kiso-Jibaru)

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery									
									Depth in m.	Sampling by Lab.	SPN-Value	Blows Per Each 10cm	(N-Value)					
													10	20	30	40	50	
	38.90	0.15	0.15	X	Clayey Silt	Light brown	Very soft	With roots										
1	35.45	1.45	1.30	X	Clayey Silt	Grey	Very soft	Traces of sand	1.00	P-1	0	0	0	0	0	0	0	0
2	34.15	2.75	1.30	X	Clayey Silt	Light grey	Very soft		2.00	P-2	0	0	0	0	0	0	0	0
3	33.40	3.50	0.75	X	Sand	Grey	Medium	Sand is medium grained. Traces of gravel	3.15	P-3	10	4	4	3				
4				X					4.15	P-4	2	1	1	-				
5	31.10	5.80	2.30	X	Silty Sand	Grey	Very loose	Sand is fine grained	5.00	P-5	0	0	0	0	0	0	0	0
6				X					6.15	P-6	1	1	-	-				
7	29.40	7.50	1.70	X	Sandy Silt	Grey	Very soft	With coarse sand	7.15	P-7	1	1	-	-				
8				X				High plasticity	8.15	P-8	1	1	-	-				
9				X					9.15	P-9	2	1	1	-				
10	26.05	10.85	3.35	X	Silty Clay	Grey	Very soft		10.15	P-10	1	1	-	-				
11	25.40	11.50	0.65	X	Sandy Clay	Grey	Soft	With gravel. Gravel is 22-20mm	11.15	P-11	4	1	1	2				
12				X				With medium to coarse sand with gravel 23-5mm	12.15	P-12	10	3	3	4				
13				X					13.15	P-13	8	2	3	3				
14	22.90	14.20	2.70	X	Silty Clay	Dark grey	Stiff		14.15	P-14	9	2	3	4				
15	21.40	15.50	1.30	X	Clayey Sand	Dark grey	Loose	With white patches. Sand is medium to coarse grained.	15.15	P-15	7	2	2	3				
16				X				With white patches.	15.45	P-15								
17	19.90	17.00	1.50	X	Silty Sand	Grey	Loose	Sand is medium to coarse grained	16.15	P-16	8	2	2	4				
18	19.80	17.02	0.02	X	Sand with Gravel	Grey	Hard	Sand is weathered limestone	17.00	P-17	50	50	-	-				50 blows/2cm
19								End of Drilling										
20																		
21																		
22																		
23																		
24																		
25																		
26																		
27																		
28																		
29																		
30																		

FIG. DRILLING LOG

Feasibility Study for the Reclamation Project of
 Existing Land for Housing Development and Other
 Purposes - Phase 1

Type of Drilling Percussion

Site No. 53-6 Station RL 436.4 m Date 29.12.79 to 4.1.80

Site Santul Bore hole CL -5.50 m Date Geotechnique (M) (Kiso-Jib)

Remarks

Scale in m	Elevation in m	Depth in m	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test & Core Recovery						
									Optimum	Blows per 30 cm	Blows per 10 cm	(N-Value)			
									30	20	30	40	50		
1	30.75	0.15	0.15	[Symbol]	Silty Clay	Very soft		With roots	1.00	7-1	0	Self penetration under weight of hammer			
2				[Symbol]	Silty Clay	Very soft			2.00	7-2	2	Self penetration under weight of hammer			
3	32.90	3.50	3.35	[Symbol]	Silty Clay	Light grey	Very soft		3.15	7-3	1				
4				[Symbol]	Silty Sand	Light grey	Very loose	With some gravels Sand is fine to coarse grained	4.15	7-4	2				
5	31.45	5.00	1.50	[Symbol]	Sand	Grey	Loose	Sand is coarse grained	5.15	7-5	36				
6				[Symbol]	Sand with Gravel	Grey	Medium	Sand is coarse grained	6.15	7-6	23				
7	28.90	7.50	2.50	[Symbol]	Sand	Grey	Loose	With silt Sand is medium to coarse grained	7.15	7-7	20				
8				[Symbol]	Sand	Grey	Loose	Gravel is 2-3-5 mm	8.15	7-8	15				
9				[Symbol]	Sand	Grey	Loose	Gravel is 2-3-5 mm	9.15	7-9	9				
10				[Symbol]	Sand	Grey	Loose	Gravel is 2-3-5 mm	10.15	7-10	7				
11				[Symbol]	Sand	Grey	Loose	Gravel is 2-3-5 mm	11.15	7-11	8				
12				[Symbol]	Sand	Grey	Loose	Gravel is 2-3-5 mm	12.15	7-12	5				
13	23.40	13.00	5.50	[Symbol]	Silty Sand	Grey	Loose	With gravel	13.15	7-13	8				
14	22.90	13.50	0.50	[Symbol]	Sand	Grey	Loose	With silt Sand is medium to coarse grained	14.15	7-14	5				
15				[Symbol]	Sand	Grey	Loose	Gravel is 2-3-5 mm	15.15	7-15	9				
16	19.45	17.00	3.50	[Symbol]	Silty Clay	Grey	Very soft	With coarse sand and gravels	16.15	7-16	7				
17	18.45	18.00	1.00	[Symbol]	Sand	Grey	Loose	Fine to coarse sand with gravels	17.15	7-17	6				
18				[Symbol]	Sand	Grey	Loose	Fine to coarse sand with gravels	18.15	7-18	8				
19				[Symbol]	Sand	Grey	Loose	Fine to coarse sand with gravels	19.15	7-19	5				
20				[Symbol]	Sand	Grey	Loose	Fine to coarse sand with gravels	20.15	7-20	8				
21				[Symbol]	Sand	Grey	Loose	Fine to coarse sand with gravels	21.15	7-21	8				
22				[Symbol]	Sand	Grey	Loose	Fine to coarse sand with gravels	22.15	7-22	9				
23	13.40	23.00	5.00	[Symbol]	Silty Sand	Grey	Medium	Sand is fine to coarse with some gravels	23.15	7-23	21				
24	11.90	24.50	1.50	[Symbol]	Sand	Grey	Medium	With clay	24.15	7-24	21				
25				[Symbol]	Sand	Grey	Medium	With clay	25.15	7-25	23				
26				[Symbol]	Sand	Grey	Medium	With clay	26.15	7-26	19				
27	8.90	27.50	3.00	[Symbol]	Sand	Grey	Stiff	With some gravel	27.15	7-27	14				
28				[Symbol]	Sand	Grey	Stiff	With clay	28.15	7-28	17				
29	5.40	30.00	2.50	[Symbol]	Sand	Grey	Stiff	With clay	29.15	7-29	22				
30				[Symbol]	Sand	Grey	Stiff	With clay	30.15	7-30	24				
31	8.90	31.50	1.50	[Symbol]	Sand	Yellowish grey	Hard	Heavily weathered limestone	31.15	7-31	38				
32				[Symbol]	Sand	Yellowish and grey	Hard	Heavily weathered limestone	32.15	7-32	31				
33	2.40	34.00	2.50	[Symbol]	Sand	Greyish brown	Hard	Weathered limestone	33.15	7-33	30				
34				[Symbol]	Sand	Greyish brown	Hard	Weathered limestone	34.15	7-34	20				
35				[Symbol]	Sand	Grey	Hard	Weathered limestone	35.00	7-35	20				50 blows/10cm
36	0.30	35.70	2.10	[Symbol]	Sand	Grey	Hard	Weathered limestone	36.10	7-36	20				50 blows/10cm
End of Drilling															

FIG. DRILLING LOG

Feasibility Study for the Reclamation Project of
Ex-mining Land for Housing Development and Other
Purposes - Phase I

Name of Project: Feasibility Study for the Reclamation Project of Ex-mining Land for Housing Development and Other Purposes - Phase I
 Type of Drilling: Rotary
 Boring No. Sub-section A"-A Elevation RL +36.4 m. Date 2/2/80 to 7/2/80
 Site Sentul Water Table GL -2.91 m. Driller Geotechnique (M) (Kiso-Jibani)

Remarks

Scale in m.	Elevation in ft.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery								
									Depth in m.	Sampling for Lab.	SPT Value	Blows Per Each 10cm					
												10	20	30	40	50	
	36.45	0.20	0.20		Silty Clay	Yellowish Brown	(Very soft)	With roots	0-10								
1	36.25	0.20	0.20		Silty Clay	Yellowish Brown	(Very soft)		0-80	S-1							
2	34.30	2.15	1.95		Silty Clay	Yellowish Brown	(Very soft)		1-80	S-2							
3	33.58	2.90	0.75		Silty Clay	Grey	(Very soft)		2-75	S-3							
4								Sand is fine to medium grained	3-32	P-1	2	1	1	0			
5	31.75	4.70	1.80		Sand	Grey	Loose		4-45	P-2	3	0	0	1	3		
6							Loose		5-15	P-3	6	1	2	3			
7							to	Sand is fine to medium grained	6-15	P-4	10	4	3	3			
8	28.85	7.60	2.90		Sand	Grey	Medium		7-45	P-5	8	3	3	2			
9	27.45	9.00	1.40		Sand	Grey	Loose	Sand is fine to medium grained	8-15	P-6	3	1	1	1			
10																	
11																	
12								Sand is medium to coarse grained									
13																	
14	22.50	13.90	4.90		Sand	Grey											
15	22.15	14.30	0.40		Silty Clay	Grey		With traces of sand									
16																	
17								Sand is medium to coarse grained									
18																	
19							Greyish white										
20	16.70	19.75	5.45		Sand	Greyish white											
21	15.20	21.25	1.50		Limestone	Greyish white		Limestone is heavily weathered									
22	14.40	22.05	0.80		Limestone	Greyish white	Hard	Weathered limestone	21.70	Pressuremeter Test							
23									22.05								
24									22.24								
25																	
26																	
27																	
28																	
29	7.00	29.45	17.40		Limestone	Greyish white											
30								End of Drilling									

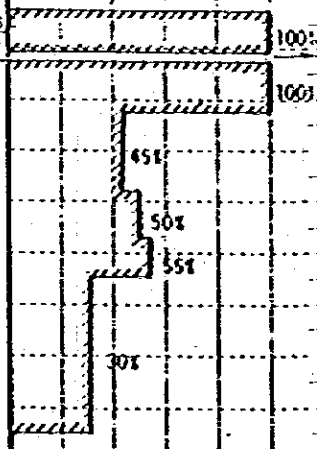


FIG. DRILLING LOG

Feasibility Study for the Reclamation Project at
Examining Land for Housing Development and Other

Name of Project Purposes - Phase I

Type of Drilling Rotary

Boring No. Sub-section A⁸-B Elevation RL +36.4 m

Date 9/2/80 to 11/2/80

Site Sentul Water Table GL -2.25 m

Driller Geotechnique (M) (Kiso-Jiban)

Remarks

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery							
									Depth in m.	Sampling for Lab.	N ₆₀ Value	Blows Per Each 10cm	(N-Value)			
												10	20	30	40	50
	+36.40															
1	+36.20	0.20	0.20		Silty Clay	reddish brown	(Very soft)	With roots in top part. Top soil	1.00	In-situ Vane Test						Core Recovery
2									2.00	In-situ Vane Test						
3	+33.65	2.75	2.55		Silty Clay	Grey	(Very soft)									
4																
5																
6								Sand is medium to coarse grained								
7																
8																
9																
10																
11																
12																
13																
14	+22.25	14.15	11.40		Sand	Grey	(Very loose to loose)									
15								Limestone is weathered in upper portion	15.20	Pressuremeter Test						35%
16									16.20	Pressuremeter Test						95%
17								Fresh	17.00	Pressuremeter Test						85%
18									18.50	Pressuremeter Test						
19	+16.70	19.70	5.54		Limestone grey	Light			19.00	Pressuremeter Test						100%
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																

FIG. DRILLING LOG

Remarks

Name of Project _____ Type of Drilling Rotary
 Hole Number No. SBM-1 Elevation RL +36.35 m Date 14.9.80 to 17.9.80
 Location Sentul Water Table GL +0.20 m Driller Geotechnique ()

Scale in m.	Elevation in m.	Depth in m.	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery											
									Depth in m.	Sampling for Lab.	SPT-N Value	Blows Per Each 10cm (N-Value)								
	36.35	0.00																		
1																				
2										1.00										
3										1.80 U01										
4										2.25 P-1	0	0	-	-						Penetration under weight of rods
5										3.00										
6										3.80 U02										
7										4.25 P-2	0	0	-	-						Penetration under weight of rods
8										5.00										
9										5.80 U03										
10										6.25 P-3	0	0	-	-						Penetration under weight of rods
11										7.00										
12										7.80 U04										
13										7.95 P-4	0	0	-	-						Penetration under weight of rods
14										8.25										
15	27.55	8.80	8.80		Silty Clay	Creasy white	Very soft			9.00										
16										9.80 U05										
17										10.25 P-5	0	0	-	-						Penetration under weight of rods
18										11.00										
19										11.80 U06										
20										12.25 P-6	0	0	-	-						Penetration under weight of rods
21										13.00										
22										13.80 U07										
23										14.25 P-7	0	0	-	-						Penetration under weight of rods and hammer
24	21.85	14.50	8.80		Silty Clay	Dark grey	Very soft			15.00										
25										15.80 U08										
26										15.95 P-8	9	2	3	4						
27										16.25										
28	19.35	17.00	2.50		Silty Clay	Grey	Stiff			17.15 P-9	23	7	8	8						
29										17.45										
30	18.35	18.00	1.00		Silty Clay	Grey	Very stiff	With angular limestone fragments (φ = 20m)		18.00 P-10	50	42	1	-						
31	18.24	18.11	0.11		Decomposed Limestone	Grey white	Hard			18.11										
32								End of Drilling												
33																				
34																				
35																				
36																				
37																				
38																				
39																				
40																				

FIG. DRILLING LOG

Remarks

Name of Project _____ Type of Drilling Rotary
 Hole Number No. SBH-2 Elevation RL +36.35 m Date 19.9.80 to 21.9.80
 Location Sentul Water Table GL +0.20 m Driller Geotechnique ()

Scale in m	Elevation in m	Depth in m	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery						
									Depth in m	Sampling for Lab.	N ₆₀ Value	Blows Per Each 10cm	(N-Value)		
									19	20	21	22	50		
	36.35	0.00	0.00						1.00						Core Recovery
1									1.80	U01					
2									2.25	P-1	0	0	-	-	Penetration under weight of rods
3									3.00						
4									3.80	U0-2					
5									4.25	P-2	0	0	-	-	Penetration under weight of rods
6									5.00						
7									5.80	U03					
8									6.25	P-3	0	0	-	-	Penetration under weight of rods
9	27.55	8.80	8.80		Silty Clay	Creasy white	Very soft		7.00						
10									7.80	U04					
11									8.25	P-4	0	0	-	-	Penetration under weight of rods
12									9.00						
13									9.80	U05					
14									10.25	P-5	0	0	-	-	Penetration under weight of rods
15									11.00						
16									11.80	U06					
17									12.25	P-6	0	0	-	-	Penetration under weight of rods and hammer
18									13.00						
19									13.80	U07					
20	21.85	14.50	5.70		Silty Clay	Dark grey	Very soft	With some fine sand, mica fragments, and organic matter	14.25	P-7	0	0	-	-	Penetration under weight of rods and hammer
21									15.00						
22									15.32	U08					
23	19.85	16.50	2.00		Sand	Greyish white	Medium dense	Very fine grained with some fine gravels	16.00	P-8	22	10	6	6	
24									16.65	P-9	7	2	3	2	
25	18.85	17.50	1.00		Sandy Clay	Dark grey	Medium stiff	With some gravels and mica fragments	17.15	P-10	8	3	2	3	
26									17.45						
27									18.15	P-11	22	6	8	8	
28									18.45						
29	16.35	20.00	2.50		Sand	Greyish brown	Medium dense	Fine to coarse sand, coarser with depth. With some gravel in lower part	19.15	P-12	26	12	7	7	
30	16.20	20.15	0.15		Decomposed Limestone	Greyish white	Hard		19.45						
31									20.00	P-13	50	15	3	3	50 Blows/15cm
32									20.15						
33								End of Drilling							
34															
35															
36															
37															
38															
39															
40															

FIG. DRILLING LOG

Name of Project _____ Type of Drilling Rotary
 Hole Number No. SBH-4 Elevation RL 137.15 m Date 22.1.81 to 26.1.81
 Water Table GL -0.10 - 0.20m Driller Mong (K-J S'pole)

Remarks

After first stage of surcharging (about 1.3m) with sand drain

Scale in m	Elevation in ft	Depth in m	Thickness	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Standard Penetration Test or Core Recovery									
									Depth in m	Sampling for Lab	(N-Value)	Blows Per Each 10cm	(N-Value)					
													10	20	30	40	50	
	37.15	0.00																
1	36.35	0.80	0.80		Silty Clay	Light orange	Medium stiff	(lateritic soil) with coarse sand and gravels	0.00	UD-1								
2									0.80									
3									1.00	UD-2								
3					Sand	Greyish white	Loose	Coarse grained, angular, with gravel (D = 2 - 5 mm)	1.70									
3	33.75	3.40	2.60						2.00	UD-3								
4									2.70									
4									4.00									
5									4.80	UD-4								
6									6.00									
7									6.80	UD-5								
8									8.00									
9									8.80	UD-6								
9	27.40	9.75	6.35		Silty clay	Creasy white	Very soft	Increase consistency with depth	10.00									
10									10.80	UD-7								
11									12.00									
12									12.80	UD-8								
13									14.00									
14									14.80	UD-9								
15	21.75	15.40	5.65		Silty Clay	Dark grey	Very soft to soft	With some fine sand & decayed woods	15.45									
16									15.80									
17									16.15	P-2	9	3	3	3				
17									16.45									
18									17.15	P-3	12	4	4	4				
18									17.45									
19	18.45	18.70	3.30		Silty Sand	Grey	Loose to medium	Sand is fine grained, with occasional pockets of gravels	18.15									
19									18.45	P-4	17	5	6	6				
20	17.35	19.80	1.10		Sandy Silt	Grey & white	Stiff	Sand is fine grained	19.15									
20									19.45	P-5	12	3	4	5				
21	15.75	21.40	1.60		Gravels	White	Very dense	Limestone fragments										
22									22.15									
23	14.15	23.00	1.60		Sandy Silt	Grey and white	Dense	Sand is fine grained with limestone fragments	22.45	P-6	43	8	17	18				
23									23.00									
24	14.09	23.06	0.06		Limestone	Grey and white	Hard	Badly weathered with silt laminated	23.06	P-7	52	6	6					
24																		
25								End of Drilling										
26																		
27																		
28																		
29																		

FIG. DRILLING LOG

Remarks
After second stage of surcharge (about 2.3 m in total)

Project No. _____ Project _____ Type of Drilling Rotary
 Hole Number SBH-6 Elevation 37.80 m Date 26.6.81 to 5.7.81
 Water Table GL -1.20 ~ -1.40 m Driller (Hong)

Scale in m	Elevation in m	Depth in m	Thickness in m	Legend	Type of Soil	Colour	Relative Density or Consistency	General Remarks	Sampling		Standard Penetration Test or Core Recovery					
									Depth in m	Sample No.	Blows Per Foot	Blows Per 10cm	N-Value			
											10	20	30	40	50	
											Core Recovery					
	37.80	0.00							0.50							
1									1.35	UD-1						
2					Silty clay	Reddish brown	Medium stiff	With sand & laterites	1.50							
3	35.00	2.80	2.80						2.35	UD-2						
4						Greyish white	Loose	Coarse grained	4.15		5	1	2	2		
5	33.00	4.80	2.00		Sand				4.45	P-1						
6									5.00							
7									5.85	UD-3						
8									6.50							
9									7.35	UD-4						
10					Silty clay	Creamy white	Very soft		8.00							
11	27.30	10.50	5.70						8.85	UD-5						
12									9.50							
13									10.35	UD-6						
14									11.00							
15									11.85	UD-7						
16									12.50							
17									13.35	UD-8						
18									14.00							
19									14.85	UD-9						
20									15.50							
21	21.60	16.20	5.70		Silty clay	Dark grey	Soft	With organic matters and traces of fine sand	16.30	UD-10						
22	21.20	16.60	0.40		Sand	Brownish grey	Loose	Clay patches and gravel. Sand is fine.	17.15		8	2	3	3		
23	20.20	17.60	1.00		Clayey sand	Dark grey	Loose	Sand is fine to med. with gravel	17.45	P-2						
24									18.15		42	12	16	14		
25									18.45	P-3						
26									19.15		23	7	7	9		
27									19.45	P-4						
28									20.15		22	4	8	10		
29									20.45	P-5						
30									21.15		15	3	5	7		
31									21.45	P-6						
32									22.15		25	7	8	10		
33									22.45	P-7						
34									23.15		50/28					
35									23.45	P-8						
36									24.15		29	10	8	11		
37							Stiff	With occasional sand layer and some fragments of limestone	24.45	P-9						
38					Clayey silt	Greyish white	Hard		25.15	P-10	50/21	18	27	1		
39	11.60	26.17	8.57						25.36		50/7					
40									26.10	P-11	50/7					
41									26.17							
42								End of drilling								

Results of In-Situ Vane Shear Tests (1)

Location: Pilot Test Area at Sentul

Note : Tests were performed in Phase I study.

Location	Sub-section A"-B (R [*])			Sub-section B-B (R [*])		
Ground Level	R.L. +36.40 m			R.L. +36.40 m		
Depth of The Vane Tip	Undisturbed (t/m ²)	Remolded (t/m ²)	Sensitivity Ratio	Undisturbed (t/m ²)	Remolded (t/m ²)	Sensitivity Ratio
1.45	0.45	0.15	3.0	0.21	0.16	1.3
2.45	0.62	0.25	2.5	0.25	0.19	1.3
3.45	—	—	—	0.41	0.22	1.9
4.45	—	—	—	0.35	0.24	1.5
5.45	—	—	—	0.31	0.19	1.6
6.45	—	—	—	0.51	0.20	2.6
7.45	—	—	—	1.22	0.45	2.7
8.45	—	—	—	0.78	0.54	1.4
				(0.45)		(0.9)
9.45	—	—	—	(1.09)	0.51	(2.1)
				(1.40)		(2.7)
10.45	—	—	—	1.93	0.79	2.4
11.45	—	—	—	2.40	1.36	1.8

Note : R^{*} denotes rotary boring

Results of In-Situ Vane Shear Tests(2)

Location: Test Embankment at Sentul(Preloading Area)

Note: Tests were performed between 18th and 25th September 1980 i.e. before placing the embankment.

Location No.	SV-1 (at SBH-1)			SV-3 (at SBH-1)		
Ground Level	R.L. +36.35 m			R.L. +36.35 m		
Depth of The Vane Tip	Undisturbed (t/m ²)	Remolded (t/m ²)	Sensitivity Ratio	Undisturbed (t/m ²)	Remolded (t/m ²)	Sensitivity Ratio
1.45 m	0.17	0.15	1.1	0.17	0.08	2.1
2.45 m	0.13	0.08	1.6	0.29	0.13	2.2
3.45 m	0.25	0.10	2.5	0.17	0.13	1.3
4.45 m	0.55	0.10	5.5	0.46	0.17	2.7
5.45 m	0.57	—	—	0.46	0.13	3.5
6.45 m	—	—	—	0.34	0.17	2.0
6.95 m	0.42	0.07	6.0	—	—	—
7.45 m	—	—	—	0.68	0.13	5.2
8.45 m	0.65	—	—	0.50	0.17	2.9
9.45 m	0.98	0.24	4.1	0.71	0.17	4.2
10.45 m	1.00	0.35	2.9	1.46	0.42	3.5
11.45 m	1.47	0.50	2.9	1.26	0.42	3.0
12.45 m	1.71	0.55	3.1	1.07	0.50	2.1
13.45 m	2.18	0.63	3.5	2.40	1.08	2.2
14.45 m	2.70	0.76	3.6	2.55	0.76	3.4

Results of In-Situ Vane Shear Tests(3)

Location: Test Embankment at Sentul
(Sand Drain + Preloading Area)

Note: Tests were performed between 18th and 25th
September 1980 i.e. before placing the embankment.

Location No.	SV-2 (at SBH-2)			SV-4 (at SBH-2)		
Ground Level	R.L. +36.35 m			R.L. +36.35 m		
Depth of The Vane Tip	Undisturbed (t/m ²)	Remolded (t/m ²)	Sensitivity Ratio	Undisturbed (t/m ²)	Remolded (t/m ²)	Sensitivity Ratio
1.45 m	0.21	0.08	2.6	0.08	0.03	2.7
2.45 m	0.17	0.08	2.1	0.13	0.05	2.6
3.45 m	0.34	0.21	1.6	0.08	0.03	2.7
4.45 m	0.42	0.13	3.2	0.26	0.10	2.6
5.45 m	0.42	0.13	3.2	0.31	0.10	3.1
6.45 m	0.55	0.17	3.2	0.89	0.29	3.1
7.45 m	0.71	0.25	2.8	0.89	0.34	2.6
8.45 m	0.80	0.21	3.8	1.51	0.52	2.9
9.45 m	1.08	0.34	3.2	1.63	0.57	2.9
10.45 m	1.26	0.46	2.7	1.86	0.78	2.4
10.95 m	1.39	0.46	3.0	—	—	—
11.45 m	—	—	—	3.12	0.75	4.2
12.45 m	—	—	—	3.44	1.25	2.8

Results of In-Situ Vane Shear Tests (4)

Location: Test Embankment at Sentul

Note: Tests were performed between 2nd and 5th September 1981 i.e. after 1st stage of embankment.

Area	Preloading Area			Sand Drain + Preloading Area		
Location No.	SV-5 (at SBH-3)			SV-6 (at SBH-4)		
Ground Level	R.L. +37.45 m			R.L. +37.15 m		
Depth of the Vane Tip	Undisturbed (t/m ²)	Remolded (t/m ²)	Sensitivity Ratio	Undisturbed (t/m ²)	Remolded (t/m ²)	Sensitivity Ratio
3.95 m	0.17	0.06	2.8	—	—	—
4.45 m	0.16	0.09	1.8	0.28	0.11	2.5
4.95 m	0.21	0.08	2.6	0.34	0.13	2.6
5.45 m	0.26	0.08	3.3	0.50	0.17	2.9
5.95 m	0.36	0.10	3.6	0.83	0.13	6.4
6.45 m	0.37	0.12	3.1	0.33	0.13	2.5
6.95 m	0.39	0.10	3.9	0.56	0.17	3.3
7.45 m	0.44	0.12	3.7	0.71	0.08	8.9
7.95 m	0.45	0.13	3.5	0.60	0.13	4.6
8.45 m	0.55	0.15	3.7	1.10	0.14	7.9
8.95 m	0.54	0.16	3.4	0.65	0.06	10.8
9.45 m	0.63	0.15	4.2	1.01	0.17	5.9
9.95 m	0.71	0.11	6.5	1.05	0.26	4.0
10.45 m	0.77	0.22	3.5	1.60	0.11	14.5
10.95 m	0.84	0.13	6.5	1.23	0.10	12.3
11.45 m	0.97	0.07	13.9	1.40	0.12	11.7
11.95 m	1.08	—	—	—	—	—
12.45 m	—	—	—	1.76	0.23	7.7
12.95 m	1.48	0.10	14.8	—	—	—
13.45 m	—	—	—	1.07	0.29	3.7
13.95 m	1.62	0.22	7.4	—	—	—

Results of In-Situ Vane Shear Tests (5)

Location: Test Embankment at Sentul

Note : Tests were performed between 6th and 7th July 1981 i.e. after 2nd stage of embankment.

Area	Preloading Area			Sand Drain + Preloading Area		
Location No.	SV-7 (at SBH-5)			SV-8 (at SBH-6)		
Ground Level	R.L. +37.45 m			R.L. +37.81 m		
Depth of the Vane Tip	Un-disturbed (t/m ²)	Disturbed (t/m ²)	Sensitivity Ratio	Un-disturbed (t/m ²)	Disturbed (t/m ²)	Sensitivity Ratio
3.5 m	0.23	0.07	3.3	-	-	-
4.5 m	0.22	0.07	3.1	-	-	-
5.5 m	0.31	0.10	3.1	0.45	0.07	2.6
6.0 m	-	-	-	-	-	-
6.5 m	0.40	0.14	2.9	0.55	-	-
7.5 m	0.44	0.11	4.0	0.52	0.14	3.7
8.0 m	-	-	-	0.96	0.30	3.2
8.5 m	0.50	0.15	3.3	-	-	-
9.0 m	-	-	-	0.98	0.26	3.8
10.0 m	-	-	-	1.09	0.28	3.9
10.5 m	0.90	0.22	4.1	-	-	-
11.0 m	-	-	-	1.35	-	-
11.5 m	1.12	0.29	3.9	1.92	0.38	5.1
12.5 m	1.33	0.37	3.6	1.53	0.58	2.6
13.5 m	1.77	0.50	3.5	2.08	0.59	3.5
14.5 m	2.03	0.55	3.7	2.16	0.58	3.7
15.5 m	-	-	-	2.28	0.75	3.0

Summary of Pressuremeter Tests

Site		S e n t u l						
Boring No.	Test depth m	Description of Material	Earth pressure at rest P_0 , kg/cm ²	Creep pressure P_f , kg/cm ²	Limit pressure P_e , kg/cm ²	Modulus of deformation E , kg/cm ²		
A''-A	21.7	Limestone	4.72	44.64	-	2805		
	15.2	Limestone	4.46	24.43	-	3315		
A''-B	16.2	Limestone	3.28	34.74	-	1754		
	17.0	Limestone	4.33	35.93	-	2625		
	18.5	Limestone	6.14	57.64	-	3455		
	19.0	Limestone	4.65	59.76	-	4063		
	29.2	Limestone	4.02	29.98	-	803		
B-A	30.5	Limestone	2.94	31.60	-	817		
	31.5	Limestone	2.70	31.64	-	2152		
	32.5	Limestone	4.74	54.65	-	2565		
	33.5	Limestone	6.99	59.93	-	5808		

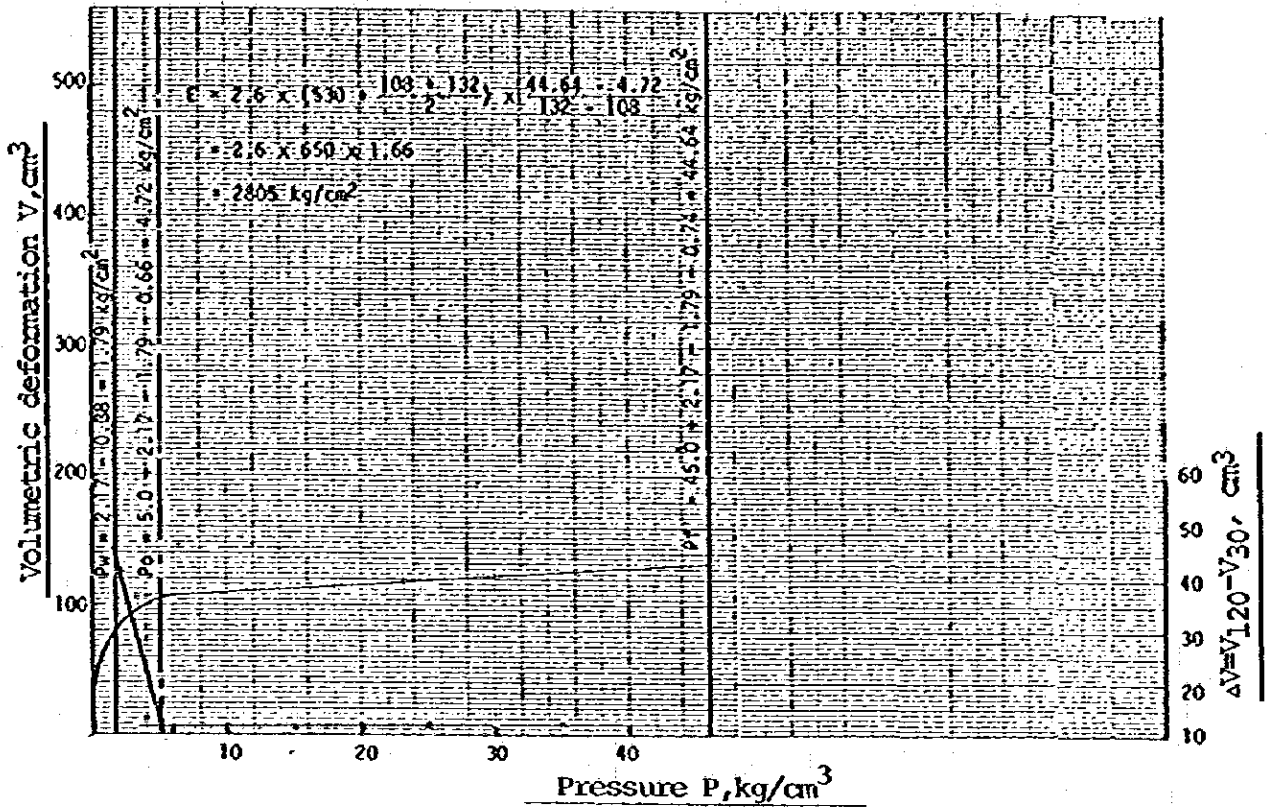
Sub-section

PRESSUREMETER CURVE

Boring No. Sub-section A-A

Depth 21.70m

Groundwater Table GL -3.6m

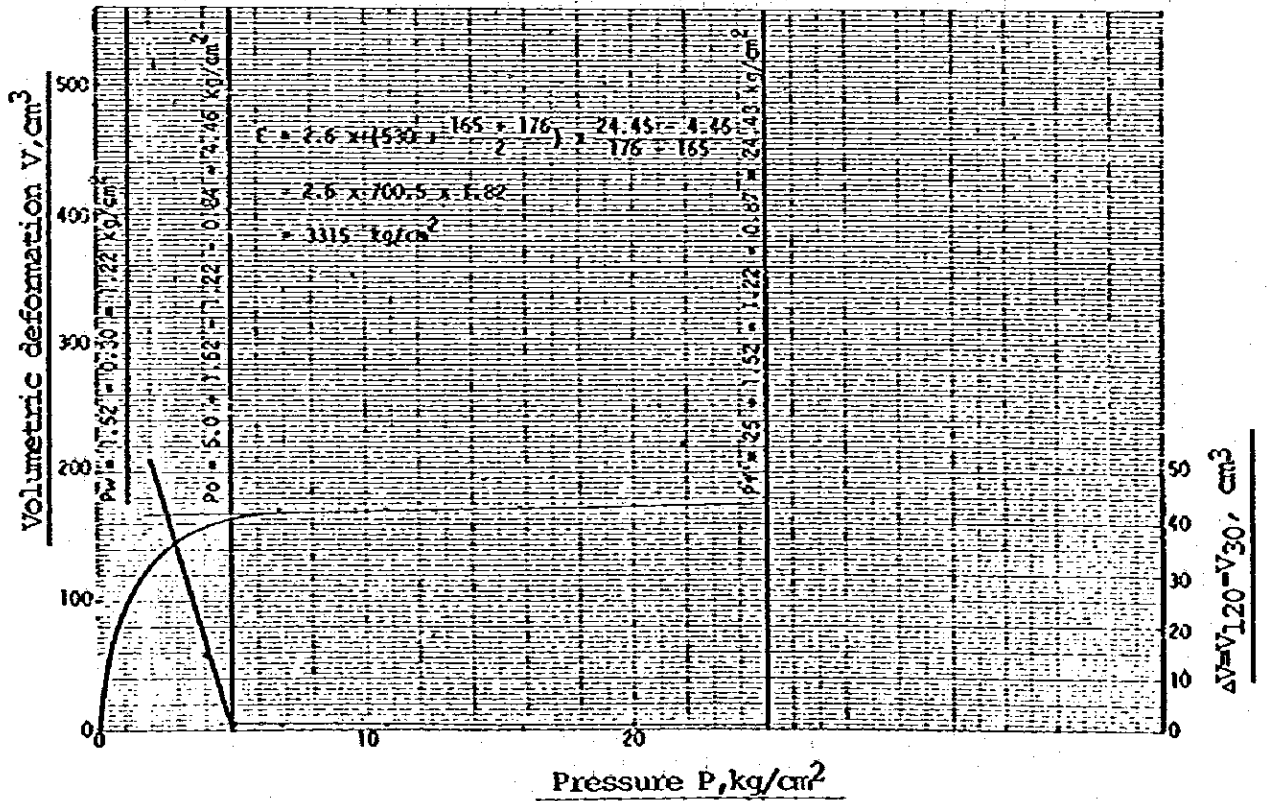


PRESSUREMETER CURVE

Boring No. Sub-section A-B

Depth 15.2m

Groundwater Table GL -3.00m

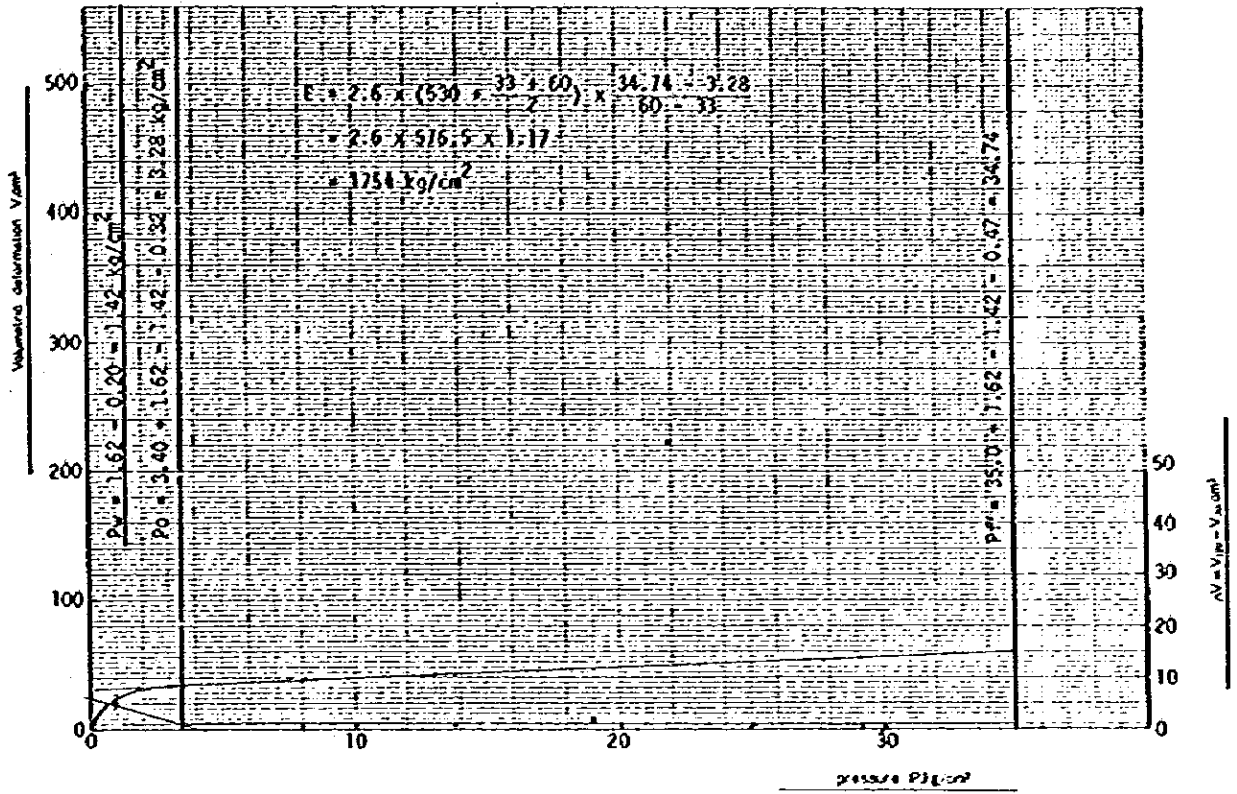


PRESSUREMETER CURVE

Boring No. Sub-section A*-B

Depth 16.2m

Groundwater Table GL -2.00m

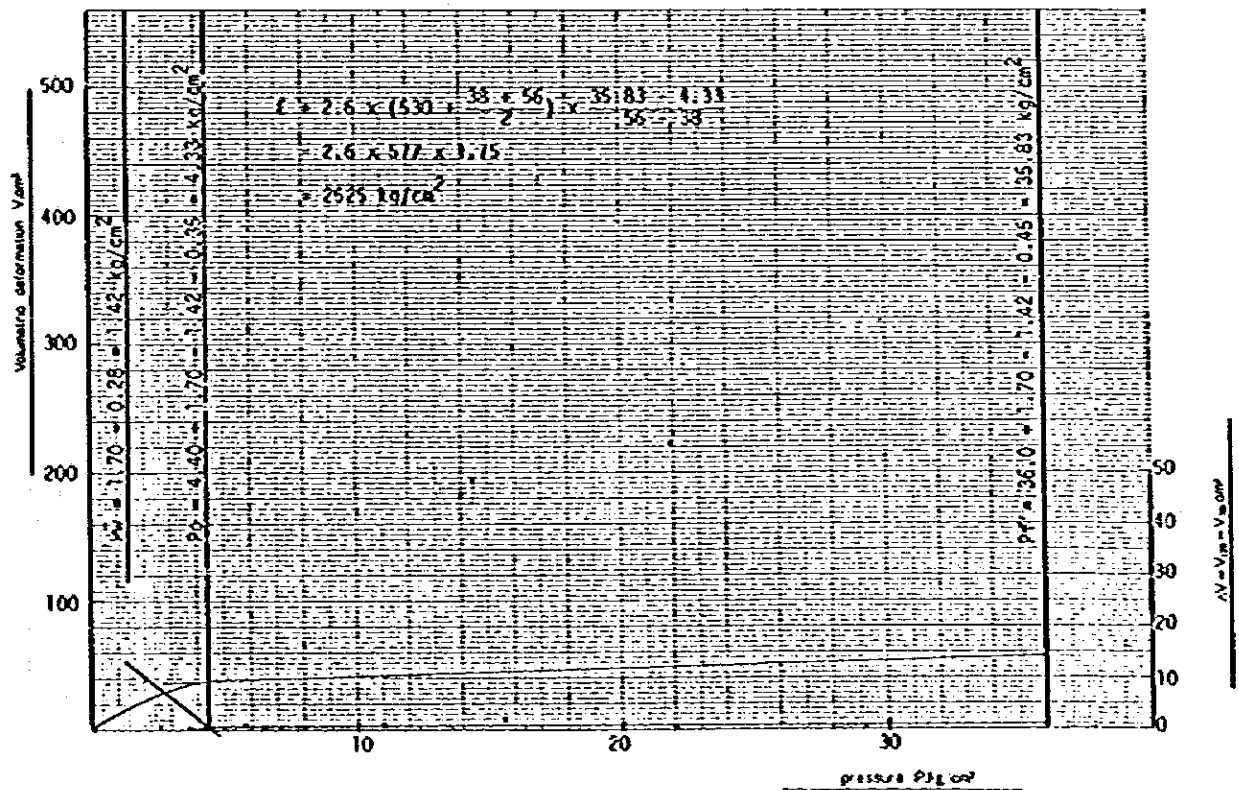


PRESSUREMETER CURVE

Boring No. Sub-section A*-B

Depth 17.0m

Groundwater Table GL -2.80m

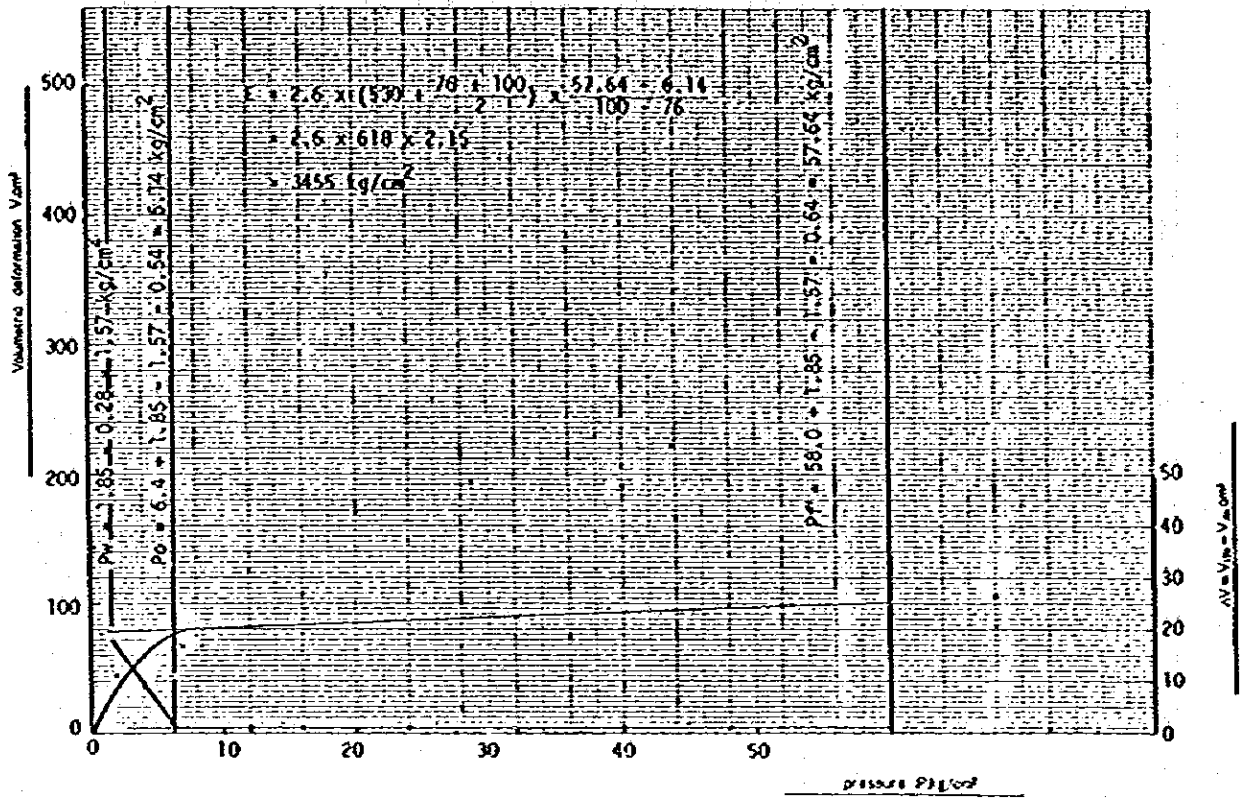


PRESSUREMETER CURVE

Boring No. Sub-section A^o-B

Depth 18.5m

Groundwater Table GL -2.80m

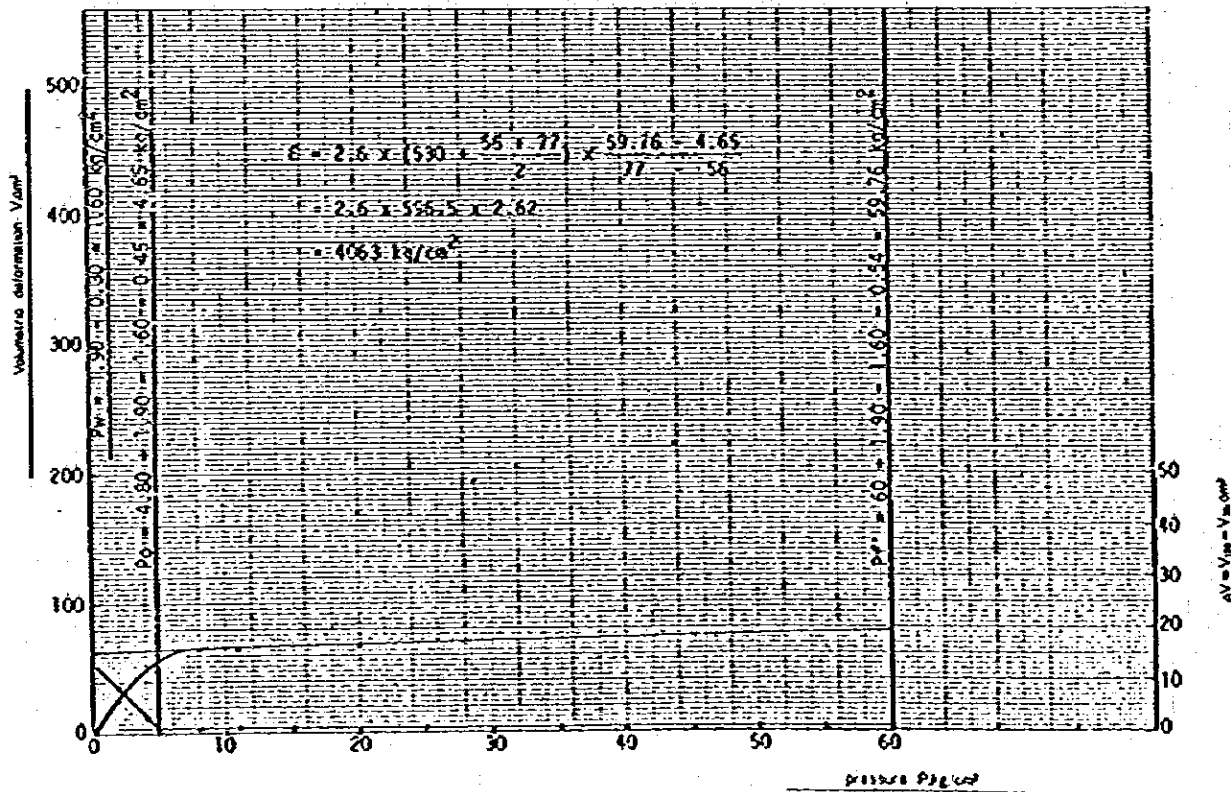


PRESSUREMETER CURVE

Boring No. Sub-section A^o-B

Depth 19.0m

Groundwater Table GL -3.00m

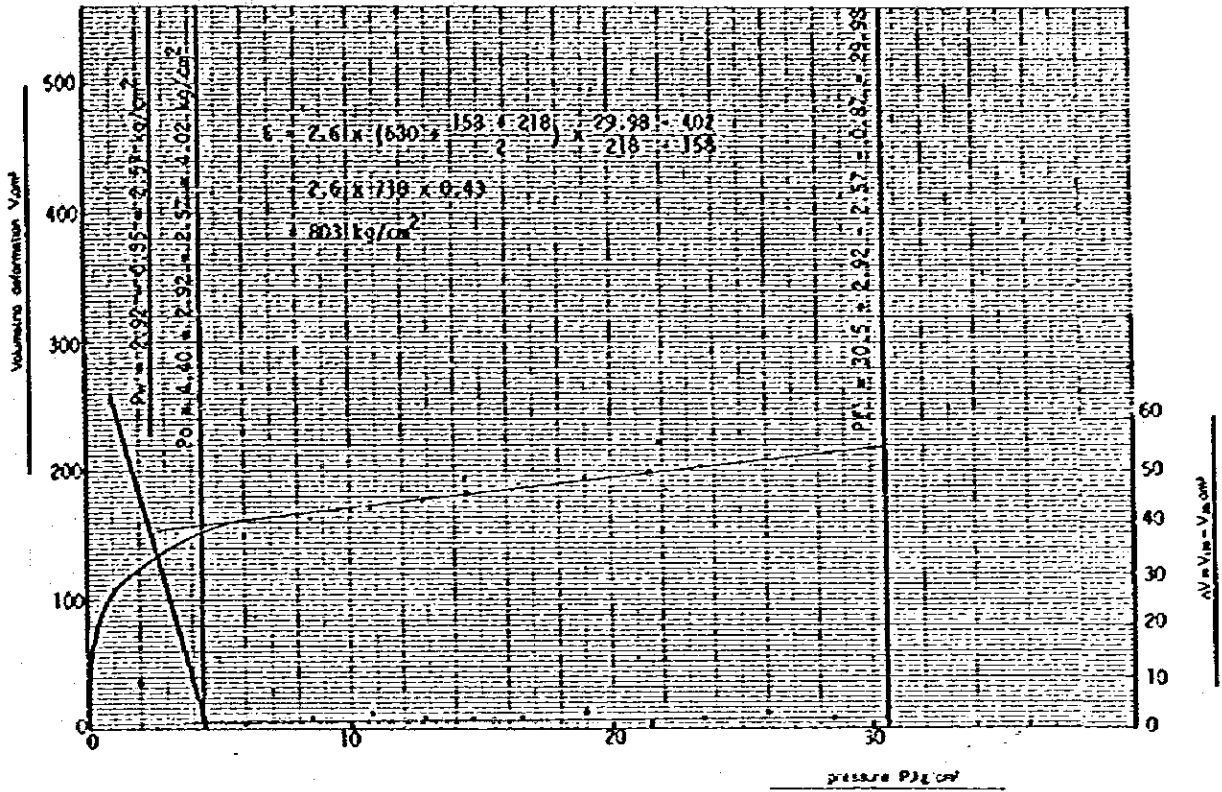


PRESSUREMETER CURVE

Boring No. Sub-section B-A

Depth 29.2m

Groundwater Table GL -3.5m

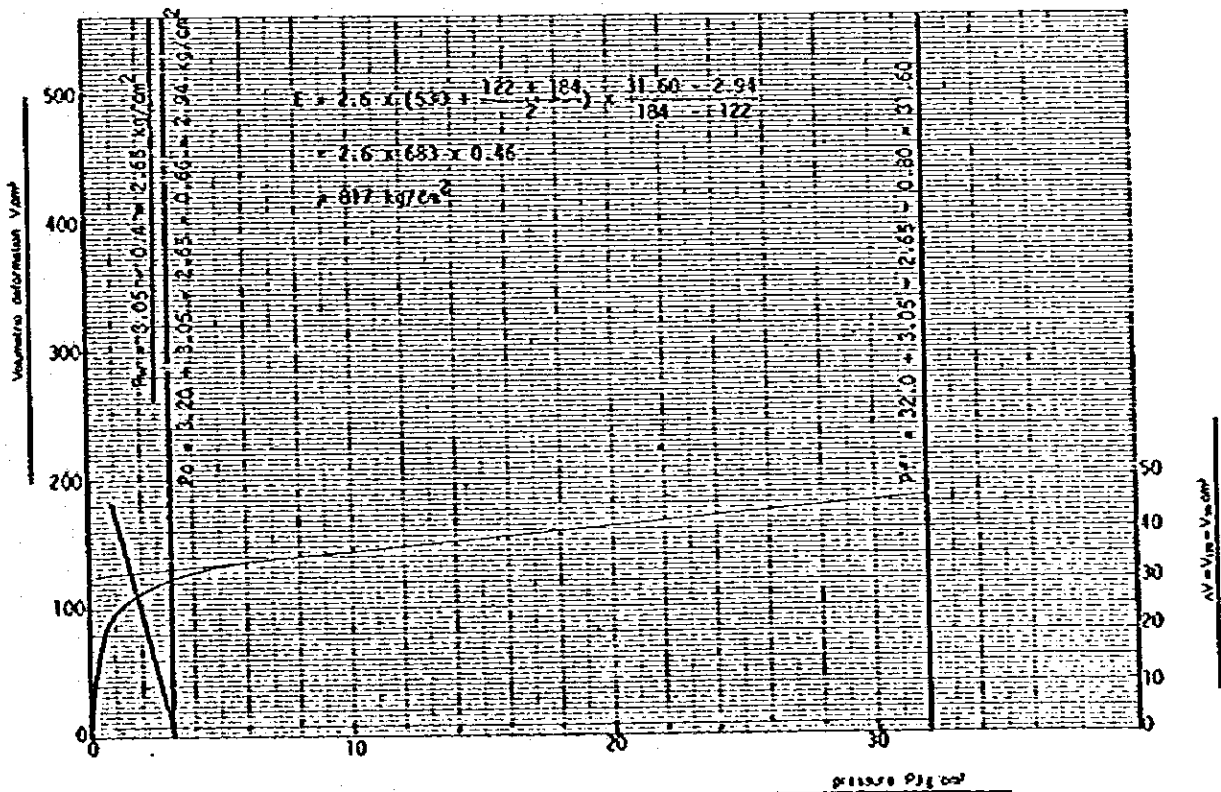


PRESSUREMETER CURVE

Boring No. Sub-section B-A

Depth 30.5m

Groundwater Table GL -4.0m

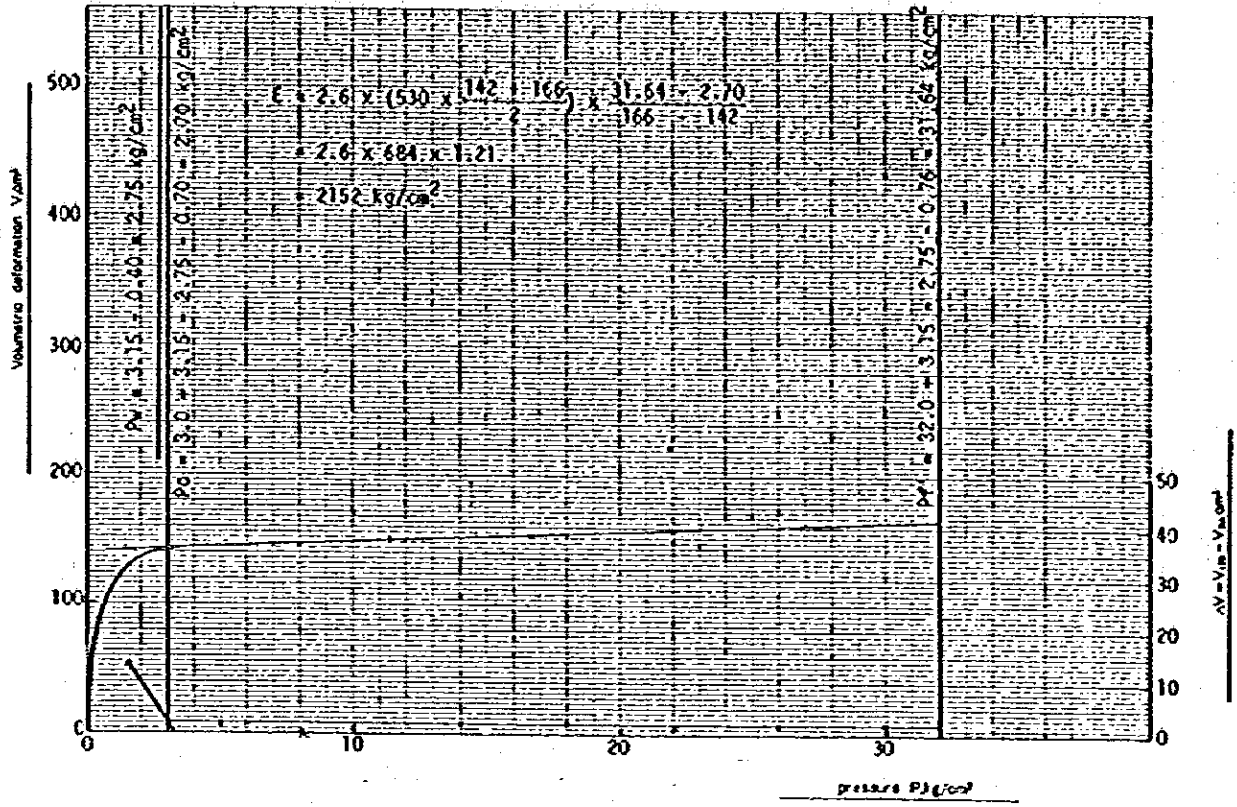


PRESSUREMETER CURVE

Boring No. Sub-section B-A

Depth 31.5m

Groundwater Table GL -4.0m

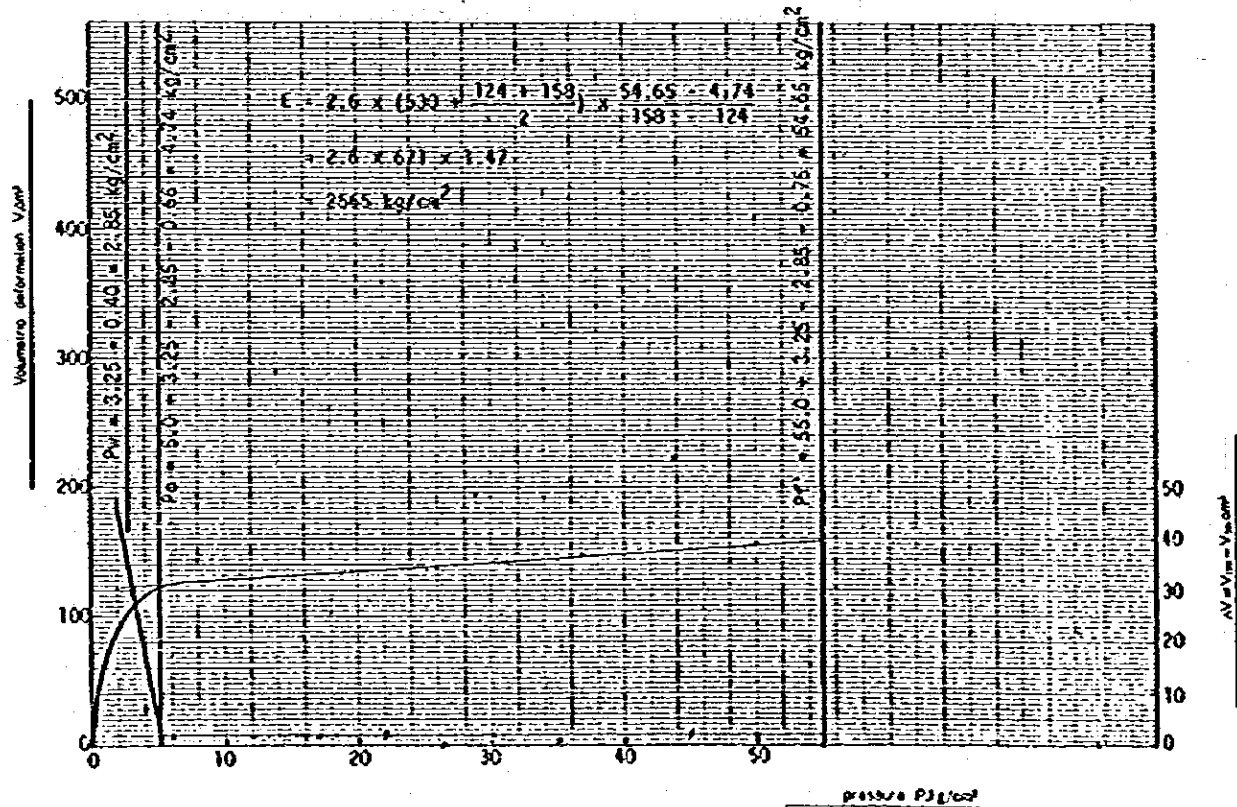


PRESSUREMETER CURVE

Boring No. Sub-section B-A

Depth 32.5m

Groundwater Table GL -4.0m

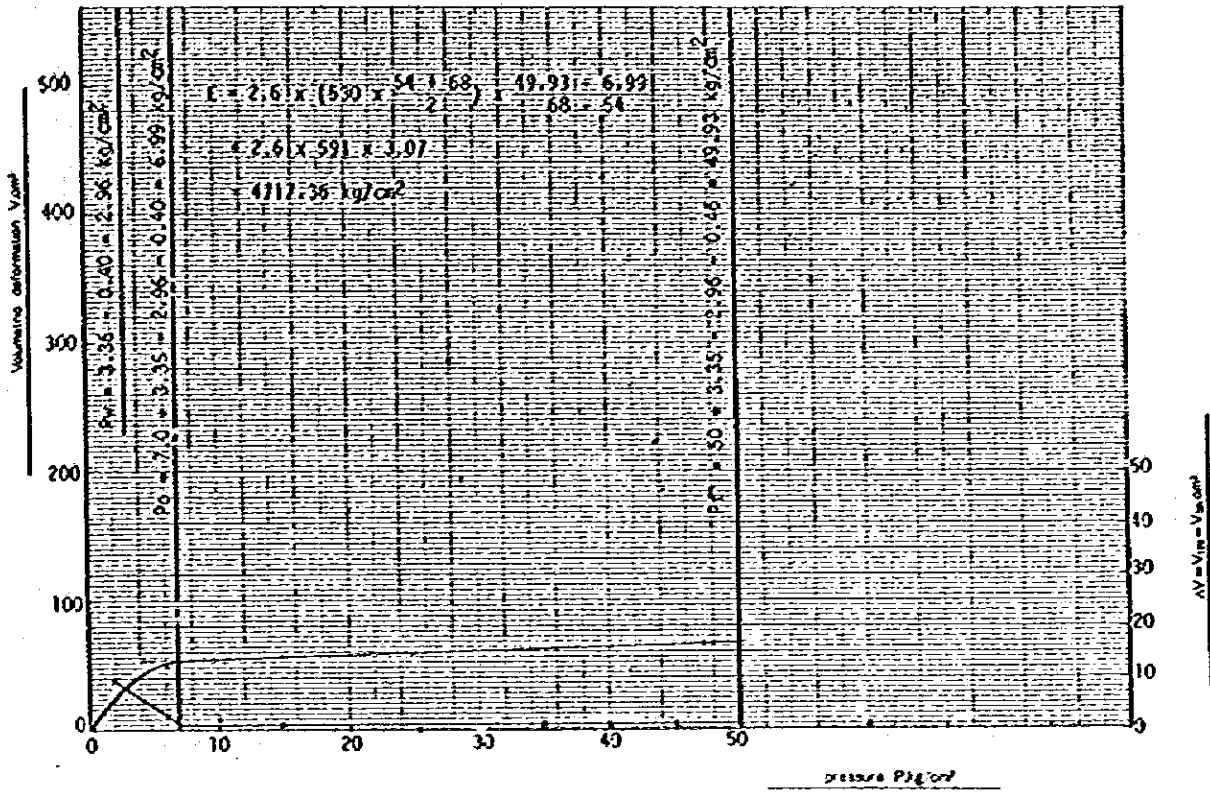


PRESSUREMETER CURVE

Boring No. Sub-section B-A

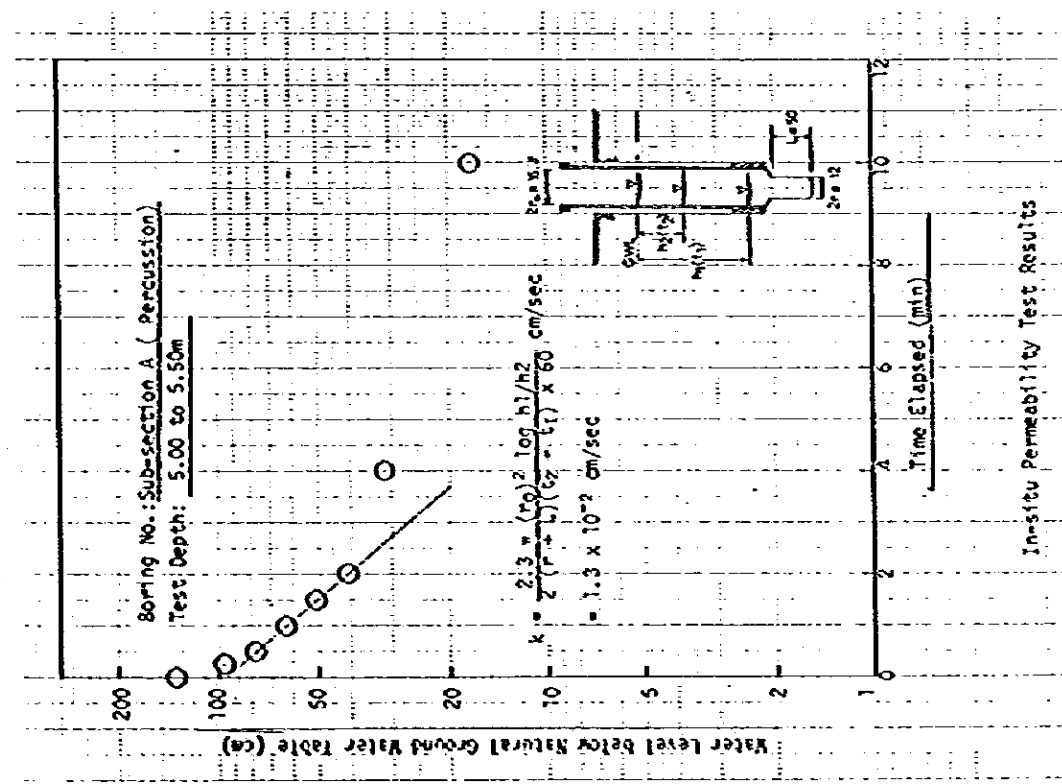
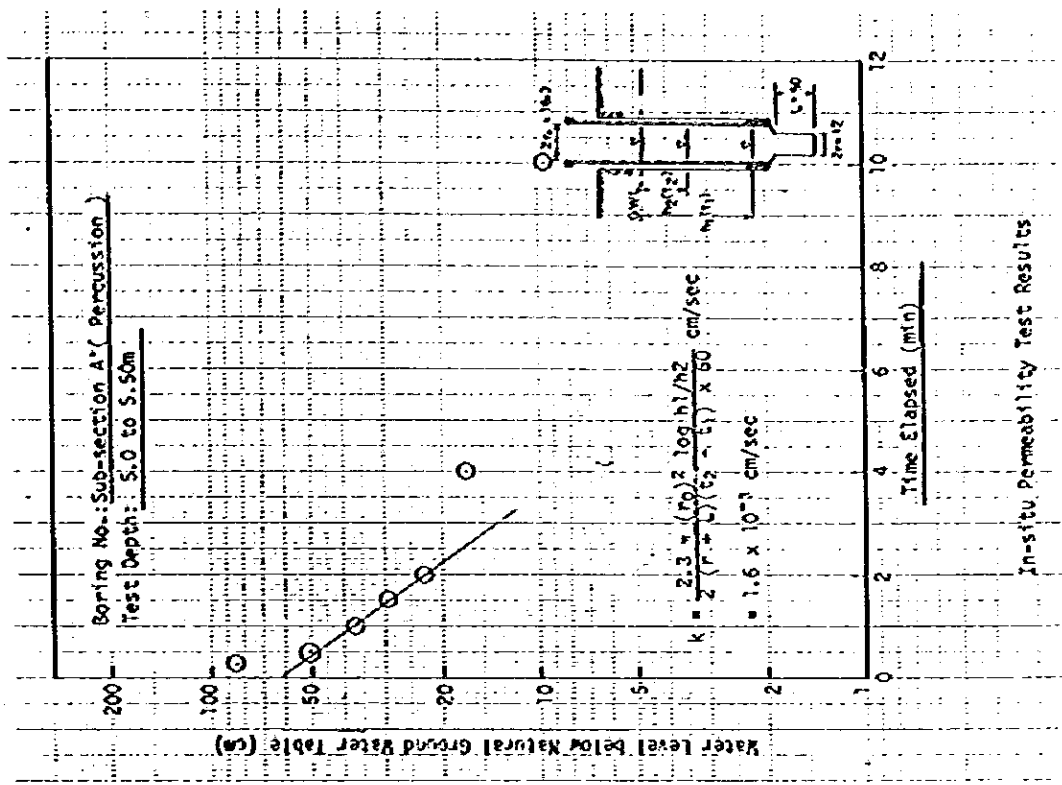
Depth 33.5m

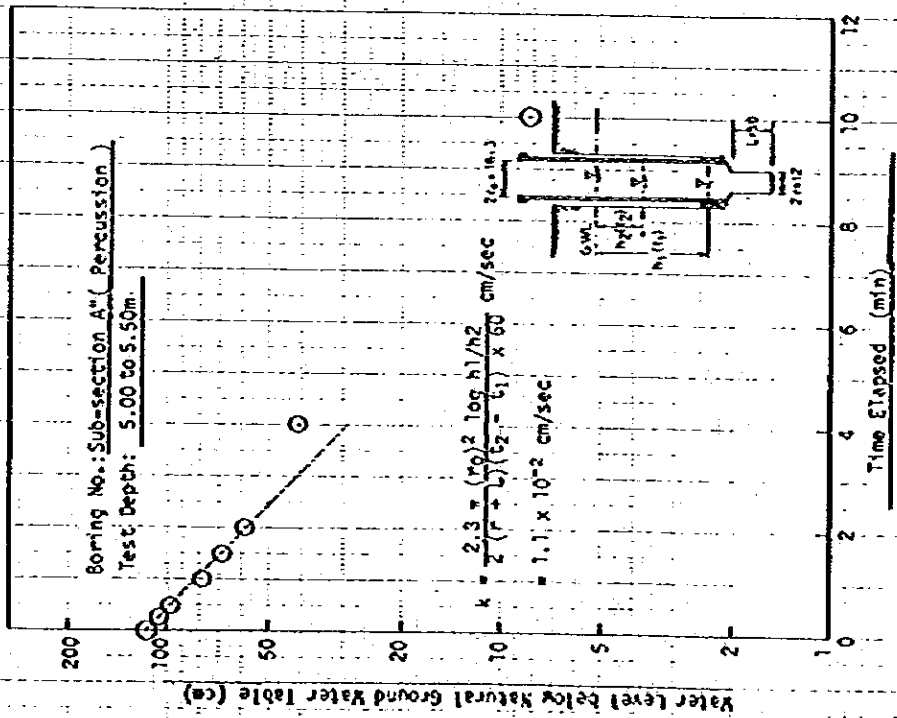
Groundwater Table CL - 4.0m



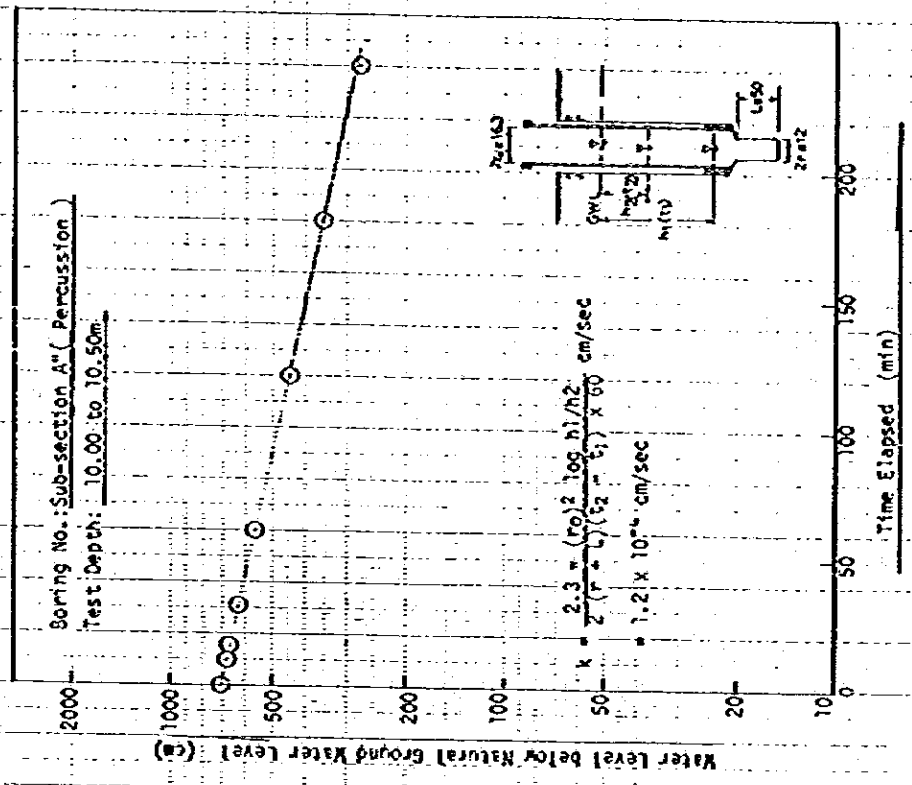
Summary of In-situ Permeability Test

Boring Type	Boring No.		Depth (m)	Coefficient of Permeability k (cm/sec)
Percussion	Sub-section	A	5.00 - 5.50	1.3×10^{-2}
Percussion		A'	5.00 - 5.50	1.6×10^{-2}
Percussion		A''	5.00 - 5.50	1.1×10^{-2}
Percussion		A'''	10.00 - 10.50	1.2×10^{-4}
Percussion		A''''	15.00 - 15.50	1.2×10^{-4}
Percussion		A'''''	19.10 - 19.20	1.6×10^{-2}
Rotary		B-B	12.00 - 12.45	1.3×10^{-2}
Rotary		B-B	17.00 - 17.45	1.4×10^{-3}
Rotary		B-B	22.00 - 22.45	8.2×10^{-3}

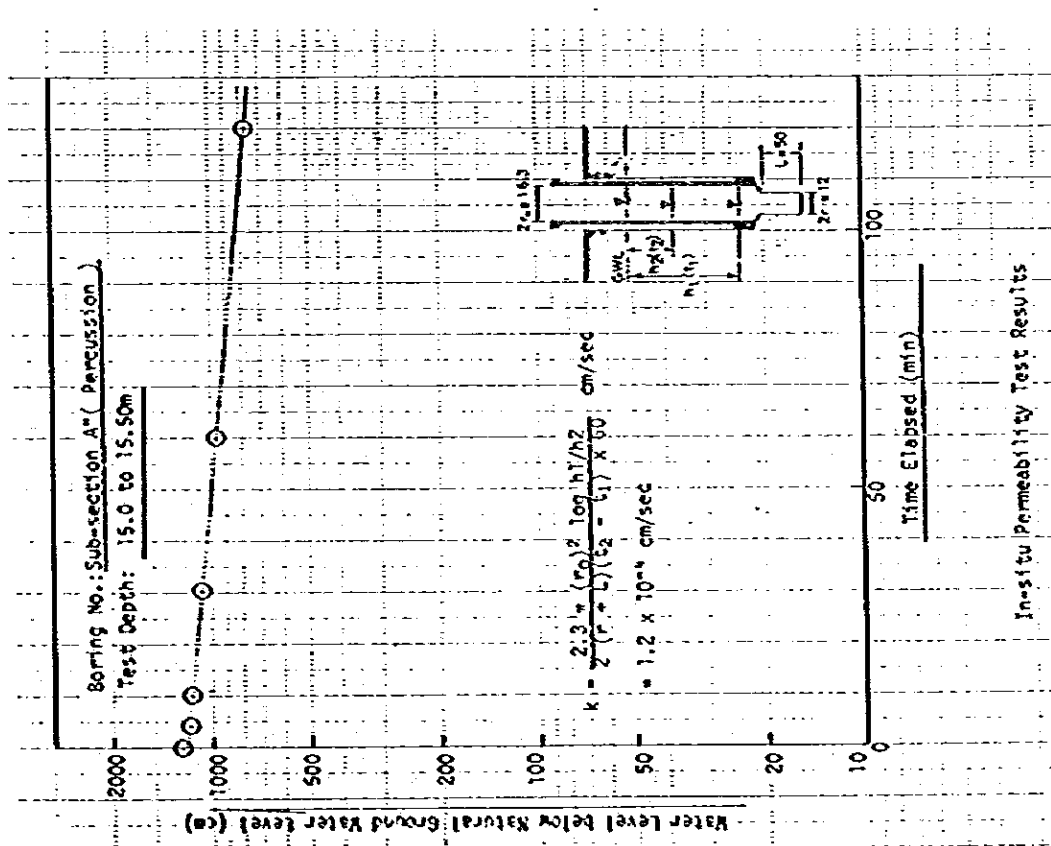
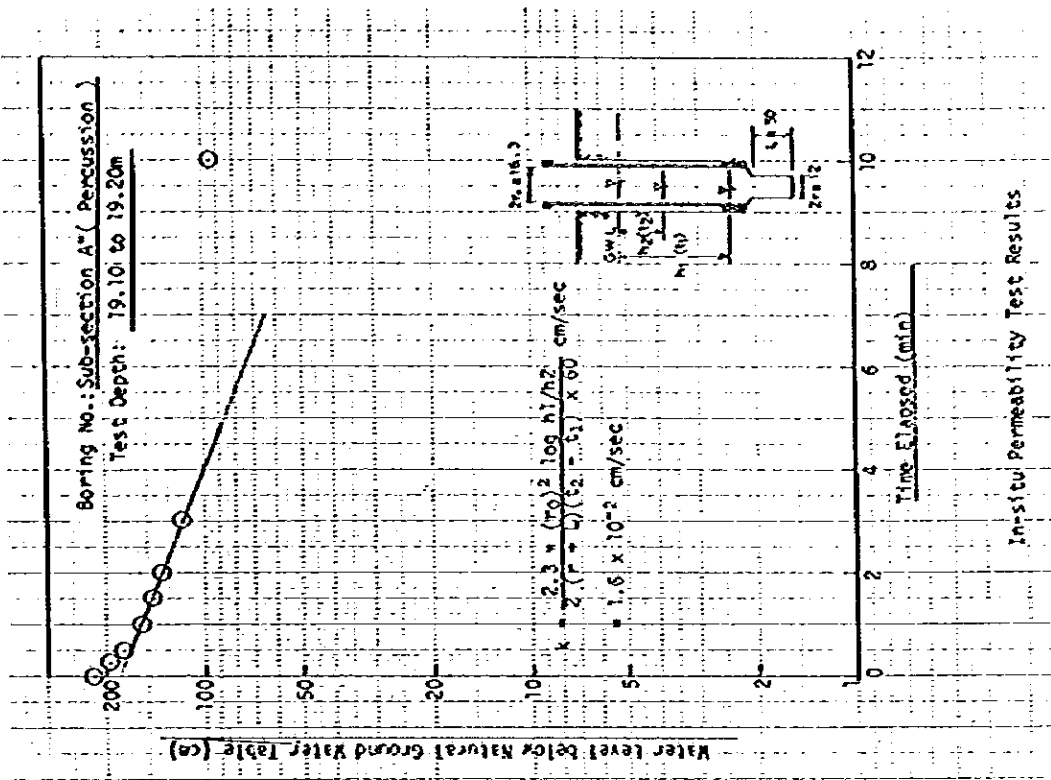


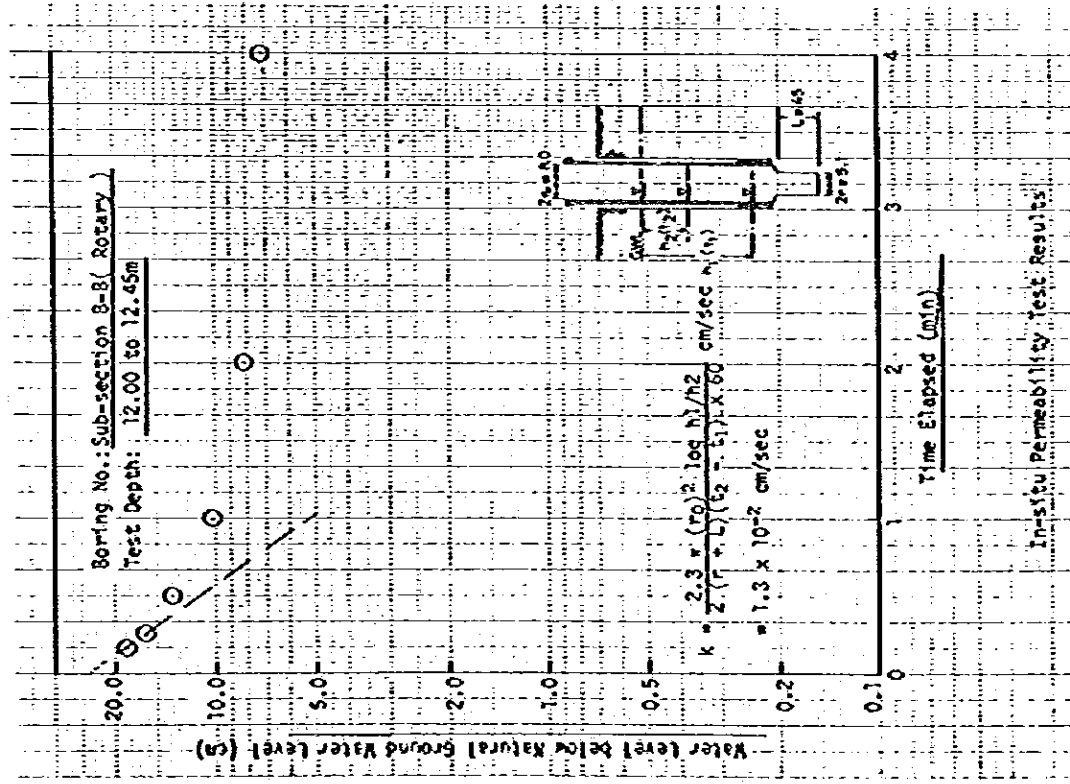
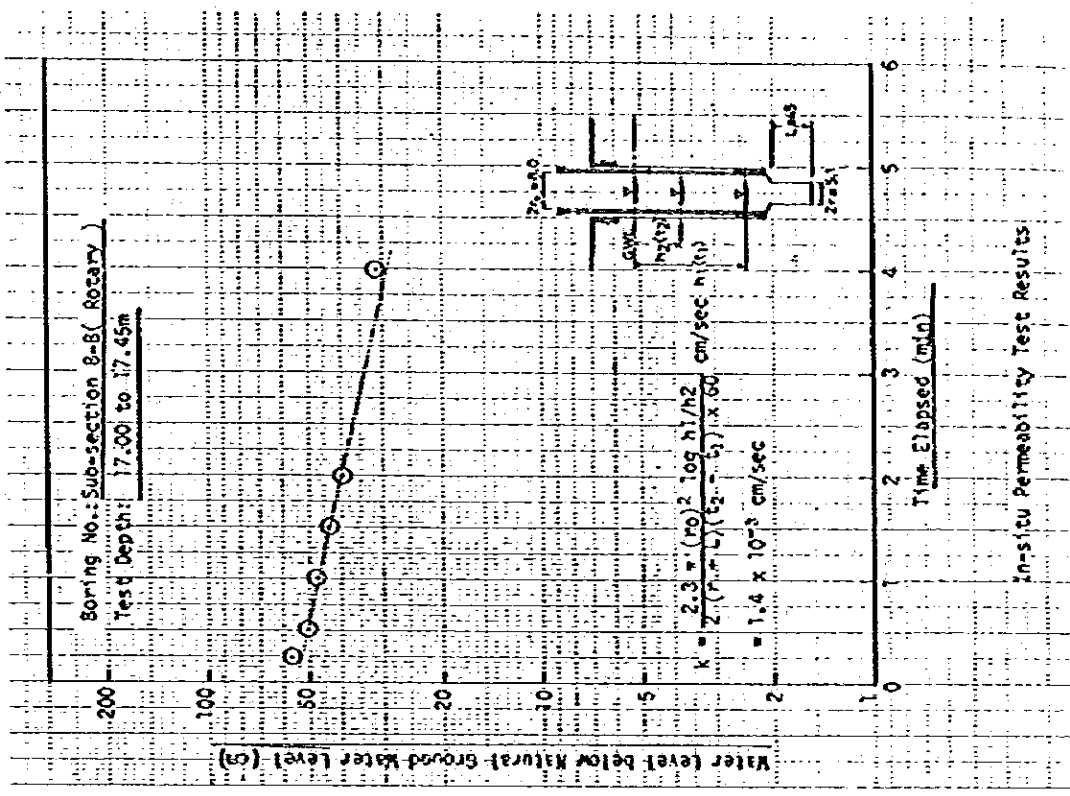


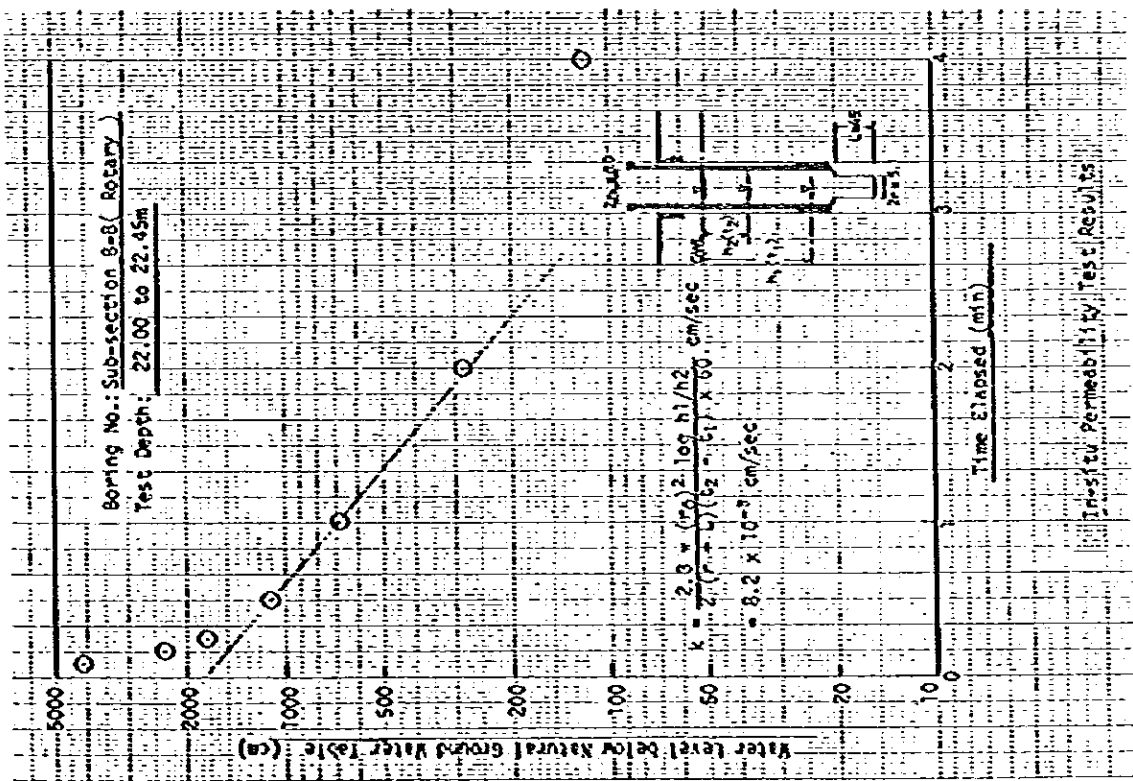
In-situ Permeability Test Results



In-situ Permeability Test Results







E.3 Results of Field Investigation

- Gombak -

	<u>Page</u>
Results of Swedish Sounding	E-120

Summary of Swedish Sounding
- Gombark -

Sounding No.	Ground Level (RL m)	Sounding Depth (m)	Groundwater* Table (GL ± m)	Remarks
GSW-1	54.99	27.00	-2.34 ~ -2.35	
2	55.03	9.70	-2.40	
3	54.87	14.30	-0.95	
4	54.73	1.90*	-	*Sounding was terminated at this depth due to existence of rocks.
5	54.90	12.40	-0.20 ~ -0.21	
6	56.96	15.40	-1.60 ~ -1.70	
7	56.70	15.95	-1.40 ~ -1.60	
8	56.77	16.55	-1.60 ~ -1.80	
9	57.04	16.30	-3.00 ~ -3.28	
10	57.03	20.00	-3.00 ~ -3.40	
11	59.48	20.00	-1.23 ~ -1.24	
12	59.12	20.00	-0.85 ~ -0.93	
Total	12 locations	189.50 m	-	

* Groundwater tables were observed on 18th and 19th Jan. 1981.

