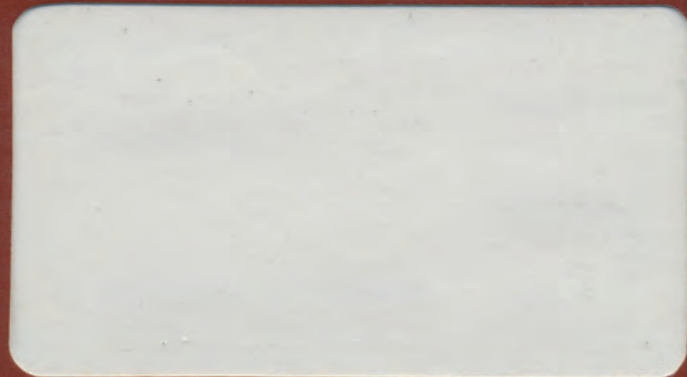


14183



BACHY SOLETANCHE

**BACHY SOLETANCHE GROUP
SOIL & FOUNDATIONS SPECIALISTS**

BACHY SOLETANCHE GROUP
HONG KONG

C.E.S.D. TERM CONTRACT NO. GC/89/03

WORKS ORDER NO. PW7/2/27.142

GROUND INVESTIGATION:
PWP ITEM NO. 15BA IN CATEGORY B
CHAI WAN AMBULANCE DEPOT

DATA BANK

GEO TECHNICAL	
INFORMATION UNIT	
Report No:	14183
AREA:	11SE14D2
Ret.	

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- II. DESCRIPTION OF SITE WORKS
- III. LEGEND
- IV. DRILLHOLE LOGS AND PHOTOGRAPHS
- V. TRIAL PIT LOGS AND PHOTOGRAPHS
- VI. SURVEY RECORDS
- VII. LOCATION PLAN

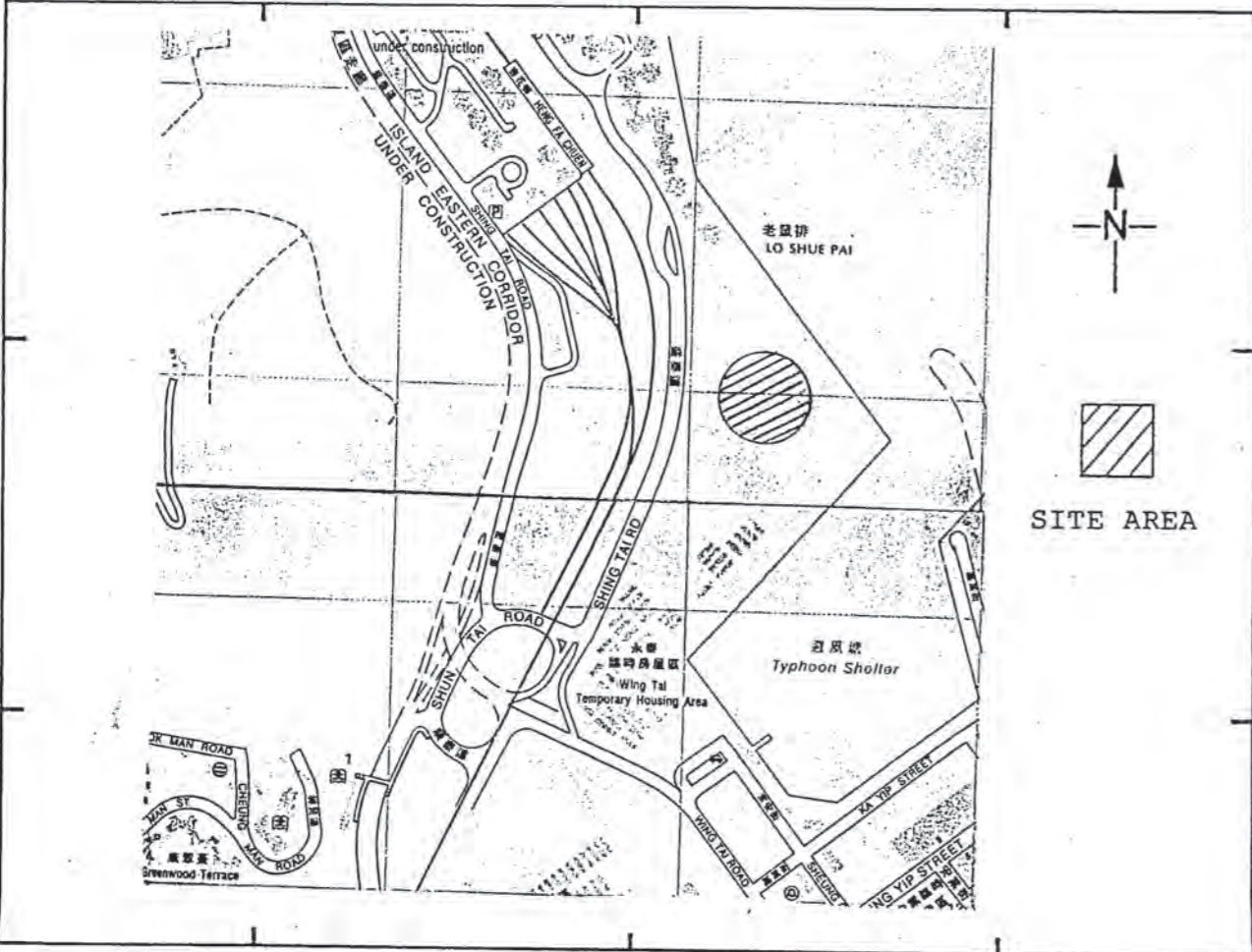
- I. CONTRACT DATA SUMMARY

CONTRACT DATA SUMMARY

Project Name: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT	Site Name: CATEGORY B CHAI WAN AMBULANCE DEPOT	Date: 8/10/90 to 8/3/91
S.I. Contractor B.S.G.	Client: G.C.O.	Official only
Contractor Job No. W260	Job Ref. No. PW7/2/27.142	G.C.O. Data Bank No.
		File Ref.

FIELDWORK SUMMARY

Boreholes Total No. 5	Method: ROTARY WATER FLUSH	Date 8/10/90 to 7/11/90
Pits/Trenches/Caissons : No. 2		
Probes : No.		
Piezometers : No.		
Insitu Tests: No. 135	Types SPT	
Geophysics : Traverses	Type	
Location Plan	SCALE 1: 10000 Derived from : 10000 Sheet Sheet	



II. DESCRIPTION OF SITE WORKS

Description of Site Works

1. Introduction

A ground investigation for PWP Item No. 15BA in Category B Chai Wan Ambulance Depot was carried out on the instructions of Geotechnical Control Office.

The works comprised mainly the following activities:

- a) Forming 5 vertical drillholes.
- b) Excavation of 2 trial pits.
- c) Taking disturbed and undisturbed soil samples.
- d) Carrying out standard penetration tests.

Locations of the drillholes and trial pits were shown on the attached drawing.

2. Description of Site and Location

The site is located beside Shing Tai Road near Shing Tai Temporary Housing Area in Chai Wan as shown on the attached drawing.

3. Geology

According to the 1 : 20000 scale geological map sheet 11, Hong Kong and Kowloon Area (GCO 1986), prepared by the Hong Kong Geological Survey, rock outcrops comprise fish ash to coarse ash tuff.

The general sequence of strata revealed by the drillholes was fill, marine deposit/alluvium overlying C.D. Tuff. The fill ranged in thickness from 13m to 16m, whilst the marine deposit/alluvium layer ranged from 30.00m to 33.30m. Bedrock, consisting of coarse ash tuff was encountered in DH1 and DH3 at 64.90m and 59.95m with reduced level of -60.58mPD and -55.61mPD. S.D. Tuff at DH3 was inter-bedded with C.D. TUFF.

4. Field Work

The fieldwork was carried out between 8/10/90 and 7/11/90.

4.1 Drilling and Sampling

Five drillholes were drilled. The maximum depth of vertical holes drilled was 69.92m below ground level.

Two rigs were engaged in the works. The models of the rigs used were CMC 33 and CMC 41.

The holes were sunk by rotary drilling using water flush.

Liner samples were taken at intervals of 2.0m in all soil strata. Small disturbed samples were obtained from the split spoon sampler employed in the standard penetration test.

The drillholes were backfilled with bentonite/cement grout after completion of all tests. The drillhole logs show in detail final casing depths and diameter in addition to core barrel type used to advance the hole.

4.2 Field Tests

4.2.1 Standard Penetration Tests

Standard Penetration Tests were carried out in accordance with BS 1377 using an automatic release trip hammer. The 'N' value is recorded on the logs and is the number of blows required to drive the split spoon through 300mm. Where full penetration was not obtained the blows and the corresponding penetration are indicated in the logs.

4.3 Logging and Photography

Rock core and soil samples were logged by the Contractor's geologist, in accordance with the Geoguide 3 "Guide to Rock and Soil Descriptions", GCO, 1988.

Colour photographs of the cores and samples were taken by a Pentax SF7 camera. Photographs of cores and samples are included with the appropriate logs.

4.4 Surveying

Surveying was carried out by the Contractor's surveyor.

III. LEGEND

IV. DRILLHOLE LOGS AND PHOTOGRAPHS

PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 1 OF 7

METHOD ROTARY	CO-ORDINATES E 843069.73 N 814918.25	ROCK COREBIT HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.00m SX 4.00m-13.00m PX 13.00m-45.00m HX 45.00m-64.90m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.32mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
	SX														
				93							1.30				
											3.00				
								N=14			3.45				
	4.00m SX PX			17							4.00				Medium dense, yellowish brown and grey, silty sandy GRAVEL & COBBLES with some concrete fragments & traces of wood & red brick fragments.
											5.00				(FILL)
				25							6.00				
											6.45				
								N=12			7.90				
				44							8.50				
											8.95				
								N=16			10.00				

▲ SMALL DISTURBED SAMPLE ▲ WATER SAMPLE
 ↓ BULK DISTURBED SAMPLE ▼ WATER LEVEL
 ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST
 □ U 100 UNDISTURBED SAMPLE □ PISTON SAMPLE
 □ U 76 UNDISTURBED SAMPLE □ PERMEABILITY TEST
 □ MAZIER SAMPLE (76mm)

LOGGED KEI DATE 31/10/90
 CHECKED C.LUN DATE 1/12/90

REMARKS

PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 2 OF 7

METHOD ROTARY	CO-ORDINATES E 843069.73 N 814918.25	ROCK COREBIT HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.00m SX 4.00m-13.00m PX 13.00m-45.00m HX 45.00m-64.90m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.32mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
	PX														
				0							10.30				
											11.50				
				44							12.50				
											13.00				See sheet 1 of 7
	13.00m PX HX							N=27			13.00				
											14.50				
				23							14.95				
											15.50				
								N=35			14.95				
											16.50				
											16.95				
								N=6			16.95				
											18.50				
											18.95				
								N=14			18.95				
											20.00				Loose to medium dense, dark grey very clayey fine SAND with a little shell fragments. (MARINE DEPOSIT)

▲ SMALL DISTURBED SAMPLE ▲ WATER SAMPLE
 ↓ BULK DISTURBED SAMPLE ▼ WATER LEVEL
 ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST
 □ U 100 UNDISTURBED SAMPLE □ PISTON SAMPLE
 □ U 76 UNDISTURBED SAMPLE □ PERMEABILITY TEST
 □ MAZIER SAMPLE (76mm)

LOGGED KEI DATE 31/10/90
 CHECKED C.LUN DATE 1/12/90

REMARKS

PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 3 OF 7

METHOD ROTARY	CO-ORDINATES E 843069.73 N 814918.25	ROCK COREBIT HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.00m SX 4.00m-13.00m PX 13.00m-45.00m HX 45.00m-64.90m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.32mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
21	HX							N=8	8	-17.18	20.50 20.95 21.50				See sheet 2 of 7
23								N=7	9		22.50 22.95				Firm to stiff, dark grey silty CLAY with traces of shell fragments. (MARINE DEPOSIT)
25								N=9	10	-25.50	24.50 24.95 25.50				
27								N=9	11		26.50 26.95				Stiff, brownish yellow dappled red, silty CLAY with occasionally fine sand. (ALLUVIUM)
29								N=13	12	-25.18	28.50 28.95 29.50				
30	HX										30.00				See sheet 4 of 7

<ul style="list-style-type: none"> ▲ SMALL DISTURBED SAMPLE ↓ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE ▨ U 76 UNDISTURBED SAMPLE ▩ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST 	LOGGED KEI DATE 31/10/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 4 OF 7

METHOD ROTARY	CO-ORDINATES E 843069.73 N 814918.25	ROCK COREBIT HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.00m SX 4.00m-13.00m PX 13.00m-45.00m HX 45.00m-64.90m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.32mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
31	HX							N=29	13		30.50 30.95				Medium dense, light yellow, slightly silty fine to medium SAND. (ALLUVIUM)
33								N=14	14	-27.18	31.50 32.50 32.95				Medium dense to dense, grey, very clayey fine to medium SAND with a little shell fragments. (MARINE DEPOSIT)
35								N=68	15		34.50 34.95				
37								N=34	18	-31.53	35.85 37.00 37.45				Dense, yellowish light grey sandy GRAVEL with some cobbles. (ALLUVIUM)
39								N=45	17	-33.68	38.00 39.00 39.45				See sheet 5 of 7
40	HX										40.00				

<ul style="list-style-type: none"> ▲ SMALL DISTURBED SAMPLE ↓ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE ▨ U 76 UNDISTURBED SAMPLE ▩ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST 	LOGGED KEI DATE 31/10/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 5 OF 7

METHOD ROTARY	CO-ORDINATES E 843069.73 N 814918.25	ROCK COREBIT HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.00m SX 4.00m-13.00m PX 13.00m-45.00m HX 45.00m-64.90m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.32mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
41	HX										41.00				Very stiff, yellowish brown clayey SILT with some sand & traces of fine to medium gravel. (ALLUVIUM)
42							N=203 0.25m	18		41.45					
43								19		43.00					
44							N=36			43.45					
45	45.00m HX NX							20		45.00					
46							N=75			45.45					
47										-41.68 46.00					See sheet 6 of 7
48							N=56			47.00					
49								21		47.45					
50	12/10 NX						N=45			49.00					
										49.45					
										50.00					

<ul style="list-style-type: none"> ● SMALL DISTURBED SAMPLE ↑ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE ▤ U 76 UNDISTURBED SAMPLE ⊞ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊞ PERMEABILITY TEST 	LOGGED KEI DATE 31/10/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 6 OF 7

METHOD ROTARY	CO-ORDINATES E 843069.73 N 814918.25	ROCK COREBIT HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.00m SX 4.00m-13.00m PX 13.00m-45.00m HX 45.00m-64.90m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.32mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
51	NX										51.00				Extremely weak, yellow & yellowish light grey, completely decomposed, coarse ash TUFF (clayey SILT) (C.D. TUFF)
52								N=57		51.45					
53										53.00					
54							N=49			53.45					
55										55.00					
56							N=94			55.45					
57										-51.68 56.00					Very weak, yellowish light grey, completely decomposed coarse ash TUFF (clayey SILT) with relict manganese stained joints. (C.D. TUFF)
58							N=200 0.25m			57.00					
59										57.45					
60	12/10 NX						N=172			59.00					
										59.45					
										60.00					

<ul style="list-style-type: none"> ● SMALL DISTURBED SAMPLE ↑ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE ▤ U 76 UNDISTURBED SAMPLE ⊞ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊞ PERMEABILITY TEST 	LOGGED KEI DATE 31/10/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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BACHY SOLETANCHE GROUP
SOIL & FOUNDATIONS SPECIALISTS

DRILLHOLE RECORD W. O. PW7/2/27.142
HOLE No. DH-1
CONTRACT GC/89/03 OF C.E.S.D. DATE from 8/10/90 to 5/10/90

PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 7 OF 7

METHOD ROTARY	CO-ORDINATES E 843069.73 N 814918.25	ROCK COREBIT HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.00m SX 4.00m-13.00m PX 13.00m-45.00m HX 45.00m-64.90m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.32mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tasts	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
12/10/80	NX										61.00				See sheet 5 of 7
81								N=204 0.28m	28	61.45					
82										63.00					
83								N=206 0.10m	29	63.45					
13/10/90	64.90m NX									-60.58 64.90					
85				100	100	0	11			65.28					
86				100	87	64	8			66.14					
87				100	75	58	10			66.54					
88				100	100	100	3			66.86					
89				100	100	89	7			67.40					
90				100	92	92	8			67.77					
91				100	100	100	4			68.56					
92				100	100	82	6			69.52					
93				100	100	80	8			69.92					
94										-65.60 69.92					

<ul style="list-style-type: none"> ▲ SMALL DISTURBED SAMPLE ▲ WATER SAMPLE ▲ BULK DISTURBED SAMPLE ▲ WATER LEVEL ▲ S.P.T. LINER SAMPLE ▲ STANDARD PENETRATION TEST ▲ U 100 UNDISTURBED SAMPLE ▲ PISTON SAMPLE ▲ U 76 UNDISTURBED SAMPLE ▲ PERMEABILITY TEST ▲ MAZIER SAMPLE (76mm) 	LOGGED KEI DATE 31/10/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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Strong, grey to dark grey spotted white, slightly decomposed coarse ash TUFF. Joints are closely spaced smooth planar, narrow to very narrow, brown stained, dip 20°-30°, 40°-50°, 60°-70° & occasionally 80°.
(S.D. TUFF)

End of drillhole at 69.93m.

HOLE No.	BOX No.	DEPTH FROM	To	DRILLED DATE	To	SITE LOCATION
DH-1	1 OF 3	0.00M	37.45M	8-10-90	15-10-90	CHAI WAN

BACHY SOLETANCHE GROUP
Chi Wo Commercial Building 3rd-4th Floor
20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

BACHY SOLETANCHE
CESD TERM CONTRACT GC/89/03
GROUND INVESTIGATION
WORKS ORDER No. PW 7/2/27.142



BACHY SOLETANCHE

BACHY SOLETANCHE GROUP
Chi Wo Commercial Building 3rd-4th Floor
20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27.1A2

HOLE No.	DH-1	BOX No.	2 OF 3
DEPTH FROM	39.00M	To	67.77M
DRILLED DATE	8-10-90	To	15-10-90
SITE LOCATION	CHAI WAN		



BACHY SOLETANCHE

BACHY SOLETANCHE GROUP
Chi Wo Commercial Building 3rd-4th Floor
20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27.1A2

HOLE No.	DH-1	BOX No.	3 OF 3
DEPTH FROM	67.77M	To	69.92M
DRILLED DATE	8-10-90	To	15-10-90
SITE LOCATION	CHAI WAN		



BACHY SOLETANCHE		BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS		DRILLHOLE RECORD W. O. PW7/2/27.142		HOLE No. DH-2		CONTRACT GC/89/03 OF C.E.S.D. DATE from 1/11/90 to 7/11/90							
PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 1 OF 7															
METHOD: ROTARY			CO-ORDINATES: E 843062.02			ROCK COREBIT: PX, HX & T2-101									
MACHINE & No.: CMC-33			N 814913.77			HOLE DIA. 0.00m-4.50m SX 4.50m-15.00m PX 15.00m-47.00m HX 47.00m-83.00m NX									
FLUSHING MEDIUM: WATER			ORIENTATION: VERTICAL			GROUND-LEVEL: +4.37mPD									
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
1/11/90	4.50m SX PX			40					INSPECTION PIT		1.50				GRAVEL, COBBLES & BOULDERS with some grey and greyish brown silty fine to coarse sand and a little concrete fragments & traces of wood, steel bar and red brick fragments. Boulders encountered at 2.00m-2.20m, 3.90m-4.30m. (FILL)
2/11/90				21					PX		3.00				
				61							3.60				
				64							4.50				
				31					HX		5.20				
											6.50				
								N=16	1	-2.13	6.95				Loose to medium dense, dark greyish brown, silty fine to coarse SAND with some angular gravel & cobbles and traces of steel bar and red brick fragments. (FILL)
				40					HX		8.50				
											9.00				
											9.45				
											10.00				
<ul style="list-style-type: none"> ● SMALL DISTURBED SAMPLE ▲ WATER SAMPLE ↑ BULK DISTURBED SAMPLE ▼ WATER LEVEL ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST □ U 100 UNDISTURBED SAMPLE □ PISTON SAMPLE □ U 76 UNDISTURBED SAMPLE □ PERMEABILITY TEST ⊗ MAZIER SAMPLE (76mm) 										LOGGED KEI DATE 14/11/90		REMARKS			
										CHECKED C. LUN DATE 1/12/90					

BACHY SOLETANCHE		BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS		DRILLHOLE RECORD W. O. PW7/2/27.142		HOLE No. DH-2		CONTRACT GC/89/03 OF C.E.S.D. DATE from 1/11/90 to 7/11/90							
PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 2 OF 7															
METHOD: ROTARY			CO-ORDINATES: E 843062.02			ROCK COREBIT: PX, HX & T2-101									
MACHINE & No.: CMC-33			N 814913.77			HOLE DIA. 0.00m-4.50m SX 4.50m-15.00m PX 15.00m-47.00m HX 47.00m-83.00m NX									
FLUSHING MEDIUM: WATER			ORIENTATION: VERTICAL			GROUND-LEVEL: +4.37mPD									
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
11	PX										11.00				See sheet 1 of 7
12								N=19	3		11.45				
13											-8.63				
14								N=4	4		13.45				Firm to stiff, greenish dark grey fine sandy CLAY with trace of shell fragments. (MARINE DEPOSIT)
15	15.00m PX HX										15.00				
16								N=7	5		15.45				
17											17.00				
18								N=9	6		17.45				
19											19.00				
20											19.45				
											20.00				
<ul style="list-style-type: none"> ● SMALL DISTURBED SAMPLE ▲ WATER SAMPLE ↑ BULK DISTURBED SAMPLE ▼ WATER LEVEL ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST □ U 100 UNDISTURBED SAMPLE □ PISTON SAMPLE □ U 76 UNDISTURBED SAMPLE □ PERMEABILITY TEST ⊗ MAZIER SAMPLE (76mm) 										LOGGED KEI DATE 14/11/90		REMARKS			
										CHECKED C. LUN DATE 1/12/90					

PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 3 OF 7

METHOD ROTARY	CO-ORDINATES E 843062.02 N 814913.77	ROCK COREBIT PX, HX & T2-101
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.50m SX 4.50m-15.00m PX 15.00m-47.00m HX 47.00m-63.00m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.37mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
21	HX							N=10	8		21.00				See sheet 2 of 7
22										-17.63	22.00				Stiff, dark grey silty CLAY with traces of shell fragments. (MARINE DEPOSIT)
23								N=9	9		23.00				
24											23.45				
25											25.00				GRAVEL & COBBLES with some brownish yellow silty sand. (ALLUVIUM)
26								N=10	10		25.45				
27										-21.63	26.00				Stiff, brownish yellow silty CLAY with a little fine sand. (ALLUVIUM)
28								N=9	11		27.00				
29											27.45				
30	HX							N=12	12		29.00				
										-25.63	30.00				

▲ SMALL DISTURBED SAMPLE	▲ WATER SAMPLE	LOGGED KEI DATE 14/11/90	REMARKS
↓ BULK DISTURBED SAMPLE	▼ WATER LEVEL	CHECKED C.LUN DATE 1/12/90	
■ S.P.T. LINER SAMPLE	↓ STANDARD PENETRATION TEST		
□ U 100 UNDISTURBED SAMPLE	□ PISTON SAMPLE		
□ U 76 UNDISTURBED SAMPLE	□ PERMEABILITY TEST		
⊞ MAZIER SAMPLE (76mm)			

PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 4 OF 7

METHOD ROTARY	CO-ORDINATES E 843062.02 N 814913.77	ROCK COREBIT PX, HX & T2-101
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.50m SX 4.50m-15.00m PX 15.00m-47.00m HX 47.00m-63.00m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.37mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
31	HX							N=13	13		31.00				Stiff, dark grey silty CLAY. (MARINE DEPOSIT)
32											31.45				
33								N=13	14		33.00				
34											33.45				GRAVEL & COBBLES with some brownish yellow silty sand. (ALLUVIUM)
35											35.00				
36											35.70				See sheet 5 of 7
37											36.50				
38								N=40	15		37.00				
39											37.45				
40	HX							N=51	16		39.00				
											39.45				
											40.00				

▲ SMALL DISTURBED SAMPLE	▲ WATER SAMPLE	LOGGED KEI DATE 14/11/90	REMARKS
↓ BULK DISTURBED SAMPLE	▼ WATER LEVEL	CHECKED C.LUN DATE 1/12/90	
■ S.P.T. LINER SAMPLE	↓ STANDARD PENETRATION TEST		
□ U 100 UNDISTURBED SAMPLE	□ PISTON SAMPLE		
□ U 76 UNDISTURBED SAMPLE	□ PERMEABILITY TEST		
⊞ MAZIER SAMPLE (76mm)			

PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 5 OF 7

METHOD ROTARY	CO-ORDINATES E 843062.02 N 814913.77	ROCK COREBIT PX, HX & T2-101
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.50m SX 4.50m-15.00m PX 15.00m-47.00m HX 47.00m-63.00m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.37mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
41	HX							N=141	17		41.00				Dense to very dense, grey and brownish yellow silty fine to coarse SAND with a little gravel. (ALLUVIUM)
42										41.45					
43								N=40	18		43.00				
44										43.45					
45				89						-40.43	44.80				GRAVEL & BOULDERS with some brownish yellow silty sand. (ALLUVIUM)
46										45.00					
47	47.00m HX NX							N=34	19		47.00			V	See sheet 6 of 7
48										47.45					
49								N=92	20		49.00				
50	NX										49.45				
											50.00				

<ul style="list-style-type: none"> ▲ SMALL DISTURBED SAMPLE ▲ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE □ U 76 UNDISTURBED SAMPLE □ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST 	LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 6 OF 7

METHOD ROTARY	CO-ORDINATES E 843062.02 N 814913.77	ROCK COREBIT PX, HX & T2-101
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.50m SX 4.50m-15.00m PX 15.00m-47.00m HX 47.00m-63.00m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.37mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
51	NX							N=34	21		51.00				Extremely weak to very weak, yellowish red, completely decomposed coarse ash TUFF (Fine sandy SILT) (C.D. TUFF)
52										51.45					
53								N=30	22		53.00				
54										53.45					
55								N=83	23		55.00			V	
56										55.45					
57								N=81	24		57.00				
58										57.45					
59								N=207	25		59.00				
60	NX										59.45				
											60.00				

<ul style="list-style-type: none"> ▲ SMALL DISTURBED SAMPLE ▲ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE □ U 76 UNDISTURBED SAMPLE □ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST 	LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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BACHY SOLETANCHE GROUP
SOIL & FOUNDATIONS SPECIALISTS

DRILLHOLE RECORD W. O. PW7/2/27.142

HOLE No. DH-2

CONTRACT GC/89/03 OF C.E.S.D. DATE from 1/11/90 to 7/11/90

PROJECT:

PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 7 OF 7

METHOD ROTARY	CO-ORDINATES E 843062.02 N 814913.77	ROCK COREBIT PX, HX & T2-101
MACHINE & No. CMC-33		HOLE DIA. 0.00m-4.50m SX 4.50m-15.00m PX 15.00m-47.00m HX 47.00m-63.00m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.37mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
7/11/90	NX							N-208 0.27m	26		61.00 61.45				See sheet 6 of 7
	63.00m NX							N-212 0.27m	27	-59.05	63.00 63.42				End of drillhole at 63.42m.

<ul style="list-style-type: none"> ▲ SMALL DISTURBED SAMPLE ▼ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE ▨ U 76 UNDISTURBED SAMPLE ⊠ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊠ PERMEABILITY TEST 	LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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BACHY SOLETANCHE GROUP
Chi Wo Commercial Building 3rd-4th Floor
20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

CESD TERM CONTRACT GC/89/03
GROUND INVESTIGATION
WORKS ORDER No. PW 7/2/27.142

HOLE No.	BOX No.	SITE LOCATION
DH-2	1 OF 2	CHAI WAN
DEPTH FROM	To	
0.00M	17.00M	
DRILLED DATE	To	
1-11-90	7-11-90	



BACHY SOLETANCHE

BACHY SOLETANCHE GROUP
Chi Wo Commercial Building 3rd-4th Floor
20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27.1A2

HOLE No. **DH-2**

DEPTH FROM **17.00M**

BOX No. **2 OF 2**

DRILLED DATE **1-11-90**

To **7-11-90**

To **63A2M**

SITE LOCATION **CHAI WAN**



BACHY SOLETANCHE

BACHY SOLETANCHE GROUP
SOIL & FOUNDATIONS SPECIALISTS

DRILLHOLE RECORD W. O. PW7/2/27.1A2

HOLE No. DH-3

CONTRACT GC/89/03 OF C.E.S.D. DATE from 16/10/90 to 31/10/90

PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 1 OF 7

METHOD ROTARY	CO-ORDINATES E 843072.39 N 814904.86	ROCK COREBIT PX, HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-3.00m SX 3.00m-14.50m PX 14.50m-48.00m HX 48.00m-88.22m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.34mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index, /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
16/10/90	SX														
				79							1.30				
				35							2.00				
	3.00m SX PX			30							3.00				
											4.00				
											4.45				
											5.00				
											6.45				
				30							7.50				
											8.50				
											8.95				
											10.00				

<ul style="list-style-type: none"> ● SMALL UNDISTURBED SAMPLE ▲ WATER SAMPLE ↓ BULK DISTURBED SAMPLE ▼ WATER LEVEL ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST □ U 100 UNDISTURBED SAMPLE □ PISTON SAMPLE □ U 76 UNDISTURBED SAMPLE □ PERMEABILITY TEST □ MAZIER SAMPLE (76mm) 	LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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Loose to medium dense, yellowish brown and greyish black, silty sandy GRAVEL & COBBLES with a little boulders and red brick fragments.

Boulders encountered at 1.80m-2.00m, 13.98m-14.20m.

(FILL)

PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 2 OF 7

METHOD ROTARY	CO-ORDINATES E 843072.39 N 814904.86	ROCK COREBIT PX, HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-3.00m SX 3.00m-14.50m PX 14.50m-48.00m HX 48.00m-88.22m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.34mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Taste	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
17/10/90	PX			32				N=53	4		10.50				See sheet 1 of 7
				53					5		11.00				
								N=7	3		11.50				
				55					6		12.50				
18/10/90	14.50m PX HX							N=5	6		12.85				Loose, dark grey very clayey silty fine SAND with traces of shell fragments. (MARINE DEPOSIT)
									7		13.20				
								N=7	7		14.20				
									8		14.50				
19/10/90								N=10	8		14.95				Stiff to very stiff, light greyish yellow dappled red, silty CLAY with occasionally fine sand. (ALLUVIUM)
									9		16.50				
									10		16.95				
									11		18.50				
20/10/90									12		18.95				See sheet 3 of 7
									13		19.50				

<ul style="list-style-type: none"> ▲ SMALL DISTURBED SAMPLE ⬆ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE □ U 76 UNDISTURBED SAMPLE □ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST 	LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 3 OF 7

METHOD ROTARY	CO-ORDINATES E 843072.39 N 814904.86	ROCK COREBIT PX, HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-3.00m SX 3.00m-14.50m PX 14.50m-48.00m HX 48.00m-88.22m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.34mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Taste	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
21/10/90	HX							N=13	9		20.50				Firm to stiff, greenish dark grey silty CLAY with traces of shell fragments. (MARINE DEPOSIT)
									10		20.95				
								N=9	10		22.50				
									11		22.95				
22/10/90								N=7	11		24.50				Stiff to very stiff, light greyish yellow dappled red, silty CLAY with occasionally fine sand. (ALLUVIUM)
									12		24.95				
									13		25.50				
									14		26.50				
23/10/90								N=12	12		26.95				Stiff to very stiff, light greyish yellow dappled red, silty CLAY with occasionally fine sand. (ALLUVIUM)
									13		28.50				
									14		28.95				
									15		29.50				
24/10/90								N=18	15		30.00				See sheet 3 of 7
									16						

<ul style="list-style-type: none"> ▲ SMALL DISTURBED SAMPLE ⬆ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE □ U 76 UNDISTURBED SAMPLE □ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST 	LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 4 OF 7

METHOD ROTARY	CO-ORDINATES E 843072.39 N 814904.85	ROCK COREBIT PX, HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-3.00m SX 3.00m-14.50m PX 14.50m-48.00m HX 48.00m-88.22m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.34mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
31	HX							N=13	14		30.50				See sheet 3 of 7
32								N=13	15		32.50				Medium dense, dark grey very clayey fine to medium SAND with traces of shell fragments. (MARINE DEPOSIT)
33								N=69	16		35.00				Subrounded GRAVEL & COBBLES with some light grey clayey silty sand. (ALLUVIUM)
34				86							34.50				
35				50							34.95				
36				50							35.70				
37				35							36.50				
38											37.00				
39											38.00				
40	HX							N=40	17		38.45				See sheet 5 of 7

<ul style="list-style-type: none"> SMALL DISTURBED SAMPLE BULK DISTURBED SAMPLE S.P.T. LINER SAMPLE U 100 UNDISTURBED SAMPLE U 76 UNDISTURBED SAMPLE MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> WATER SAMPLE WATER LEVEL STANDARD PENETRATION TEST PISTON SAMPLE PERMEABILITY TEST 	LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 5 OF 7

METHOD ROTARY	CO-ORDINATES E 843072.39 N 814904.85	ROCK COREBIT PX, HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-3.00m SX 3.00m-14.50m PX 14.50m-48.00m HX 48.00m-88.22m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.34mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
41	HX							N=63	18		40.45				Dense to very dense, light grey and yellowish brown very silty fine SAND with a little gravel. (ALLUVIUM)
42								N=45	19		42.00				
43								N=59	20		42.45				
44											44.00				
45											44.45				
46											46.00				
47											46.45				Subrounded COBBLES and GRAVEL with some brownish yellow silty sand. (ALLUVIUM)
48											48.00				
49											48.45				See sheet 6 of 7
50	NX							N=6	22		48.00				

<ul style="list-style-type: none"> SMALL DISTURBED SAMPLE BULK DISTURBED SAMPLE S.P.T. LINER SAMPLE U 100 UNDISTURBED SAMPLE U 76 UNDISTURBED SAMPLE MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> WATER SAMPLE WATER LEVEL STANDARD PENETRATION TEST PISTON SAMPLE PERMEABILITY TEST 	LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 6 OF 7

METHOD ROTARY	CO-ORDINATES E 843072.39 N 814904.85	ROCK COREBIT PX, HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-3.00m SX 3.00m-14.50m PX 14.50m-48.00m HX 48.00m-88.22m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.34mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
51	NX							N=28	23		50.45				Extremely weak, red, yellowish brown and light grey, completely decomposed coarse ash TUFF. (clayey SILT) (C.D. TUFF)
52							N=55	24		52.00					
53										52.45					
54							N=37	25		54.00					
55										54.45					
56							N=61	26		56.00					
57										56.45					
58							N=78	27		58.00					
59										58.45					
60	NX									59.95					

<ul style="list-style-type: none"> • SMALL DISTURBED SAMPLE ↓ BULK DISTURBED SAMPLE ▨ S.P.T. LINER SAMPLE U 100 UNDISTURBED SAMPLE U 76 UNDISTURBED SAMPLE MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST 	LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 7 OF 7

METHOD ROTARY	CO-ORDINATES E 843072.39 N 814904.85	ROCK COREBIT PX, HX, T2-101 & T-76
MACHINE & No. CMC-33		HOLE DIA. 0.00m-3.00m SX 3.00m-14.50m PX 14.50m-48.00m HX 48.00m-88.22m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.34mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
61	NX										60.44				Strong, dark grey spotted white, slightly decomposed coarse ash TUFF with very weak, yellowish light grey completely decomposed zone (fine sandy SILT) at : 60.44m-60.93m, 61.83m-62.80m, 63.06m-65.00m, 65.35m-66.77m, 67.27m-68.22m, 68.97m-69.02m. Joints are closely to medium spaced, rough planar, brown-stained & moderately narrow, dip 30°-40° & 70°-80°. (S.D. TUFF with C.D. TUFF)
62								N=178	28		60.93				
63										61.10					
64								N=77	29		61.40				
65										61.83					
66								N=203	30		61.90				
67										62.35					
68										62.80					
69										63.06					
70										63.10					
71										63.55					
72										65.00					
73										65.35					
74										65.50					
75										65.95					
76										66.77					
77										67.27					
78										68.22					
79										68.52					
80										68.97					
81										69.02					
82										69.49					
83										69.77					

<ul style="list-style-type: none"> • SMALL DISTURBED SAMPLE ↓ BULK DISTURBED SAMPLE ▨ S.P.T. LINER SAMPLE U 100 UNDISTURBED SAMPLE U 76 UNDISTURBED SAMPLE MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST 	LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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BACHY SOLETANCHE

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Chi Wo Commercial Building 3rd-4th Floor
20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27/42

HOLE No.	DH-3	BOX No.	1 OF 4
DEPTH FROM	0.00M	To	18.95M
DRILLED DATE	17-10-90	To	31-10-90

SITE LOCATION	CHAI WAN
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BACHY SOLETANCHE

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20, Saigon Street Kowloon Hong Kong
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CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27/42

HOLE No.	DH-3	BOX No.	2 OF 4
DEPTH FROM	20.50M	To	54.45M
DRILLED DATE	17-10-90	To	31-10-90

SITE LOCATION	CHAI WAN
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BACHY SOLETANCHE

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20, Saigon Street Kowloon Hong Kong
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CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27/42

HOLE No.

DH-3

BOX No.

3 OF 4

DEPTH FROM

5600M

To

69.49M

DRILLED DATE

17-10-90

To

31-10-90

SITE

LOCATION

CHAI WAN



BACHY SOLETANCHE

BACHY SOLETANCHE GROUP
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20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27/42

HOLE No.

DH-3

BOX No.

4 OF 4

DEPTH FROM

69.49M

To

69.77M

DRILLED DATE

17-10-90

To

31-10-90

SITE

LOCATION

CHAI WAN



	BACHY SOLETANCHE GROUP	DRILLHOLE RECORD	W. O. PW7/2/27.142
	SOIL & FOUNDATIONS SPECIALISTS		HOLE No. DH-4
CONTRACT GC/89/03 OF C.E.S.D. DATE from 16/10/90 to 25/10/90			

PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 1 OF 7

METHOD ROTARY	CO-ORDINATES E 843084.60 N 814901.52	ROCK CORE BIT T6-131, HX, T2-101 & T-76
MACHINE & No. CMC-41		HOLE DIA. 0.00m-3.00m SX 3.00m-15.00m PX 15.00m-45.80m HX 45.80m-67.00m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.33mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
	SX														
	3.00m SX PX			59							1.50				
				63							2.50				
				48							3.00				
				44							4.50				
				47							6.00				
				60							6.50				
											8.00				
											9.00				
											9.45				
	PX										10.00				

Loose to medium dense, angular GRAVEL, COBBLES and BOULDERS with some yellowish brown & grayish black silty sand & a little wood & red brick fragments.

Boulders encountered at
2.76m-3.00m,
5.27m-5.50m,
6.00m-6.22m,
12.26m-12.50m.

(FILL)

<ul style="list-style-type: none"> ▲ SMALL DISTURBED SAMPLE ▼ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE ▨ U 76 UNDISTURBED SAMPLE ⊞ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊞ PERMEABILITY TEST 	LOGGED KEI DATE 31/10/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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	BACHY SOLETANCHE GROUP	DRILLHOLE RECORD	W. O. PW7/2/27.142
	SOIL & FOUNDATIONS SPECIALISTS		HOLE No. DH-4
CONTRACT GC/89/03 OF C.E.S.D. DATE from 16/10/90 to 25/10/90			

PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 2 OF 7

METHOD ROTARY	CO-ORDINATES E 843084.60 N 814901.52	ROCK CORE BIT T6-131, HX, T2-101 & T-76
MACHINE & No. CMC-41		HOLE DIA. 0.00m-3.00m SX 3.00m-15.00m PX 15.00m-45.80m HX 45.80m-67.00m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.33mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
	PX														
				18							10.50				
				19							11.00				
											12.50				
											13.00				
											13.45				
											14.00				
											15.00				
	15.00m PX HX										15.45				
											17.00				
											17.45				
											19.00				
											19.45				
											20.00				

See sheet 1 of 7

Loose, dark grey, very clayey/silty fine SAND with traces of shell fragments.

(MARINE DEPOSIT)

<ul style="list-style-type: none"> ▲ SMALL DISTURBED SAMPLE ▼ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE ▨ U 76 UNDISTURBED SAMPLE ⊞ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊞ PERMEABILITY TEST 	LOGGED KEI DATE 31/10/90 CHECKED C.LUN DATE 1/12/90	REMARKS
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PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 3 OF 7

METHOD ROTARY	CO-ORDINATES E 843084.60 N 814901.52	ROCK COREBIT T6-131, HX, T2-101 & T-76
MACHINE & No. CMC-41		HOLE DIA. 0.00m-3.00m SX 3.00m-15.00m PX 15.00m-45.80m HX 45.80m-67.00m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.33mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
18/10/90	HX										21.00				Firm, greyish dark grey silty CLAY with traces of shell fragments. (MARINE DEPOSIT)
								N=7	6	21.45					
											23.00				Medium dense, yellowish light grey, very clayey medium to coarse SAND with a little fine gravel. (ALLUVIUM)
								N=6	7	23.45					
											-19.67 24.00				Stiff, light greyish yellow dappled red, silty CLAY. (ALLUVIUM)
								N=17	8	25.45					
											-21.67 26.00				Stiff, light greyish yellow dappled red, silty CLAY. (ALLUVIUM)
								N=11	9	27.45					
											27.00				Stiff, light greyish yellow dappled red, silty CLAY. (ALLUVIUM)
								N=10	10	29.45					
19/10/90	HX										-25.67 30.00				

• SMALL DISTURBED SAMPLE ▲ WATER SAMPLE
 ↓ BULK DISTURBED SAMPLE ▼ WATER LEVEL
 ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST
 □ U 100 UNDISTURBED SAMPLE □ PISTON SAMPLE
 ▨ U 76 UNDISTURBED SAMPLE □ PERMEABILITY TEST
 ⊠ MAZIER SAMPLE (76mm)

LOGGED KEI DATE 31/10/90
 CHECKED C.LUN DATE 1/12/90

REMARKS

PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 4 OF 7

METHOD ROTARY	CO-ORDINATES E 843084.60 N 814901.52	ROCK COREBIT T6-131, HX, T2-101 & T-76
MACHINE & No. CMC-41		HOLE DIA. 0.00m-3.00m SX 3.00m-15.00m PX 15.00m-45.80m HX 45.80m-67.00m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.33mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
19/10/90	HX										31.00				Stiff, dark grey, silty CLAY with traces of shell fragments. (MARINE DEPOSIT)
								N=13	11	31.45					
											33.00				Medium dense, light grey, sandy GRAVEL & COBBLES. (ALLUVIUM)
								N=12	12	33.45					
											-30.37 34.70				Medium dense to dense, light grey, very clayey fine to coarse SAND. (ALLUVIUM)
								N=14	13	37.45					
											36.00				Medium dense to dense, light grey, very clayey fine to coarse SAND. (ALLUVIUM)
								N=44	14	39.45					
											-32.67 37.00				Medium dense to dense, light grey, very clayey fine to coarse SAND. (ALLUVIUM)
								N=14	13	37.45					
											37.00				Medium dense to dense, light grey, very clayey fine to coarse SAND. (ALLUVIUM)
								N=44	14	39.45					
20/10/90	HX										40.00				

• SMALL DISTURBED SAMPLE ▲ WATER SAMPLE
 ↓ BULK DISTURBED SAMPLE ▼ WATER LEVEL
 ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST
 □ U 100 UNDISTURBED SAMPLE □ PISTON SAMPLE
 ▨ U 76 UNDISTURBED SAMPLE □ PERMEABILITY TEST
 ⊠ MAZIER SAMPLE (76mm)

LOGGED KEI DATE 31/10/90
 CHECKED C.LUN DATE 1/12/90

REMARKS

BACHY SOLETANCHE BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS		DRILLHOLE RECORD W. O. PW7/2/27.142 HOLE No. DH-4 CONTRACT GC/89/03 OF C.E.S.DDATE from 16/10/90 to 25/10/90	
PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 5 OF 7			
METHOD ROTARY		CO-ORDINATES E 843084.60 N 814901.52	
MACHINE & No. CMC-41		ROCK COREBIT T6-131, HX, T2-101 & T-76 HOLE DIA. 0.00m-3.00m SX 3.00m-15.00m PX 15.00m-45.80m HX 45.80m-67.00m NX	
FLUSHING MEDIUM WATER		ORIENTATION VERTICAL GROUND-LEVEL +4.33mPD	
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %
			Total core Recovery %
			Solid core Recovery %
			R. Q. D.
			Fracture Index, /m
			Tests
			Samples
			Reduced Level
			Depth (m)
			Legend
			Grade
			Zone
			Description
20/10/90	HX		
22/10/90			
23/10/90			
24/10/90			
25/10/90			
26/10/90			
27/10/90			
28/10/90			
29/10/90			
30/10/90			
31/10/90			
32/10/90			
33/10/90			
34/10/90			
35/10/90			
36/10/90			
37/10/90			
38/10/90			
39/10/90			
40/10/90			
41/10/90			
42/10/90			
43/10/90			
44/10/90			
45/10/90			
46/10/90			
47/10/90			
48/10/90			
49/10/90			
50/10/90			
<ul style="list-style-type: none"> ■ SMALL DISTURBED SAMPLE ▲ WATER SAMPLE ↑ BULK DISTURBED SAMPLE ▼ WATER LEVEL ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST □ U 100 UNDISTURBED SAMPLE □ U 76 UNDISTURBED SAMPLE □ MAZIER SAMPLE (76mm) □ PISTON SAMPLE ± PERMEABILITY TEST 		LOGGED KEI DATE 31/10/90 CHECKED C.LUN DATE 1/12/90 REMARKS	

BACHY SOLETANCHE BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS		DRILLHOLE RECORD W. O. PW7/2/27.142 HOLE No. DH-4 CONTRACT GC/89/03 OF C.E.S.DDATE from 16/10/90 to 25/10/90	
PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 6 OF 7			
METHOD ROTARY		CO-ORDINATES E 843084.60 N 814901.52	
MACHINE & No. CMC-41		ROCK COREBIT T6-131, HX, T2-101 & T-76 HOLE DIA. 0.00m-3.00m SX 3.00m-15.00m PX 15.00m-45.80m HX 45.80m-67.00m NX	
FLUSHING MEDIUM WATER		ORIENTATION VERTICAL GROUND-LEVEL +4.33mPD	
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %
			Total core Recovery %
			Solid core Recovery %
			R. Q. D.
			Fracture Index, /m
			Tests
			Samples
			Reduced Level
			Depth (m)
			Legend
			Grade
			Zone
			Description
23/10/90	NX		
24/10/90			
25/10/90			
26/10/90			
27/10/90			
28/10/90			
29/10/90			
30/10/90			
31/10/90			
32/10/90			
33/10/90			
34/10/90			
35/10/90			
36/10/90			
37/10/90			
38/10/90			
39/10/90			
40/10/90			
41/10/90			
42/10/90			
43/10/90			
44/10/90			
45/10/90			
46/10/90			
47/10/90			
48/10/90			
49/10/90			
50/10/90			
<ul style="list-style-type: none"> ■ SMALL DISTURBED SAMPLE ▲ WATER SAMPLE ↑ BULK DISTURBED SAMPLE ▼ WATER LEVEL ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST □ U 100 UNDISTURBED SAMPLE □ U 76 UNDISTURBED SAMPLE □ MAZIER SAMPLE (76mm) □ PISTON SAMPLE ± PERMEABILITY TEST 		LOGGED KEI DATE 31/10/90 CHECKED C.LUN DATE 1/12/90 REMARKS	



BACHY SOLETANCHE GROUP
SOIL & FOUNDATIONS SPECIALISTS

DRILLHOLE RECORD

W. O. PW7/2/27.142
HOLE No. DH-4
CONTRACT GC/89/03 OF C.E.S.D. DATE from 16/10/90 to 25/10/90

PROJECT: PWP ITEM NO. 15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 7 OF 7

METHOD ROTARY	CO-ORDINATES E 843084.60 N 814901.52	ROCK COREBIT T6-131, HX, T2-101 & T-76
MACHINE & No. CMC-41		HOLE DIA. 0.00m-3.00m SX 3.00m-15.00m PX 15.00m-45.80m HX 45.80m-67.00m NX
FLUSHING MEDIUM WATER	ORIENTATION VERTICAL	GROUND-LEVEL +4.33mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Taste	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
51 24/10/80	NX			100	100	68	8		T-76	-56.10	60.18 60.43			ii	Moderately strong light grey spotted black, slightly decomposed coarse ash TUFF with closely spaced, rough planar, manganese stained joints, dipping 35°-45° & 50°-60°. (CORESTONE)
52								N=42	22		61.00 61.45				
53								N=204 0.25m	23		63.00 63.25			v	Extremely weak to very weak, brownish yellow & light grey mottled white, completely decomposed coarse ash TUFF (clayey SILT with occasionally fine sand) (C.D. TUFF)
54								N=221	24		65.00 65.45				
55 25/10/80								N=208 0.20m	25	-62.92	67.00 67.25				End of drillhole at 67.25m.
56	67.00m NX														
57															
58															
59															
60															

<ul style="list-style-type: none"> • SMALL DISTURBED SAMPLE ↑ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE □ U 76 UNDISTURBED SAMPLE □ MAZIER SAMPLE (76mm) 	<ul style="list-style-type: none"> ▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST 	LOGGED KEI DATE 31/10/90 CHECKED C. LUN DATE 1/12/90	REMARKS
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BOX No. 1 OF 3
HOLE No. DH-4
DEPTH FROM 0.00M To 8.00M
DRILLED DATE 16-10-90 To 25-10-90
SITE LOCATION CHAI WAN

BACHY SOLETANCHE GROUP
Chi Wo Commercial Building 3rd-4th Floor
20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

CESD TERM CONTRACT GC/89/03
GROUND INVESTIGATION
WORKS ORDER No. PW 7/2/27.142



BACHY SOLETANCHE

BACHY SOLETANCHE GROUP
Chi Wo Commercial Building 3rd-4th Floor
20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27.1/R

HOLE No. **DH-4** BOX No. **2 OF 3**
DEPTH FROM **8.00M** To **42.50M**
DRILLED DATE **16-10-90** To **25-10-90**

SITE LOCATION **CHAI WAN**



BACHY SOLETANCHE

BACHY SOLETANCHE GROUP
Chi Wo Commercial Building 3rd-4th Floor
20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27.1/R

HOLE No. **DH-4** BOX No. **3 OF 3**
DEPTH FROM **42.50M** To **67.25M**
DRILLED DATE **16-10-90** To **25-10-90**

SITE LOCATION **CHAI WAN**



		DRILLHOLE RECORD W. O. <u>PW7/2/27.142</u>													
		BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS													
PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT		SHEET 1 OF 7													
METHOD ROTARY		CO-ORDINATES E 843076.58 N 814895.22													
MACHINE & No. CMC-41		ROCK COREBIT HX, NX, T6-131, T2-101 & T-76													
FLUSHING MEDIUM WATER		HOLE DIA. 0.00m-4.80m SX 4.80m-14.60m PX 14.80m-40.00m HX 40.00m-65.00m NX													
ORIENTATION VERTICAL		GROUND-LEVEL +4.29mPD													
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
1	SX										1.70				INSPECTION PIT 76-131 Loose to medium dense, angular GRAVEL & COBBLES with a little boulders & traces of wood & red brick fragments. Boulders encountered at 6.20m-6.58m. (FILL)
2				100							2.50				
3				73							3.80				
4	4.80m SX			95							4.80				
5	PX			75							6.00				
6				60							7.50				
7				27							9.00				
8											9.45				
9											10.00				
10	PX														
* SMALL DISTURBED SAMPLE ▲ WATER SAMPLE † BULK DISTURBED SAMPLE ▼ WATER LEVEL ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST □ U 100 UNDISTURBED SAMPLE □ PISTON SAMPLE ▨ U 76 UNDISTURBED SAMPLE ⊞ PERMEABILITY TEST ⊞ MAZIER SAMPLE (76mm)												LOGGED <u>KEI</u> DATE <u>14/11/90</u> CHECKED <u>C.LUN</u> DATE <u>1/12/90</u>		REMARKS	

		DRILLHOLE RECORD W. O. <u>PW7/2/27.142</u>													
		BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS													
PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT		SHEET 2 OF 7													
METHOD ROTARY		CO-ORDINATES E 843076.58 N 814895.22													
MACHINE & No. CMC-41		ROCK COREBIT HX, NX, T6-131, T2-101 & T-76													
FLUSHING MEDIUM WATER		HOLE DIA. 0.00m-4.80m SX 4.80m-14.60m PX 14.80m-40.00m HX 40.00m-65.00m NX													
ORIENTATION VERTICAL		GROUND-LEVEL +4.29mPD													
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
11	PX										11.00				See sheet 1 of 7 Soft to firm, greenish dark grey, very fine sandy CLAY with traces of shell fragments. (MARINE DEPOSIT)
12											11.45				
13											12.00				
14				17							13.50				
15	14.60m PX HX			0							14.60				
16				29							16.00				
17											17.00				
18											17.45				
19											19.00				
20	HX										19.45				
* SMALL DISTURBED SAMPLE ▲ WATER SAMPLE † BULK DISTURBED SAMPLE ▼ WATER LEVEL ■ S.P.T. LINER SAMPLE ↓ STANDARD PENETRATION TEST □ U 100 UNDISTURBED SAMPLE □ PISTON SAMPLE ▨ U 76 UNDISTURBED SAMPLE ⊞ PERMEABILITY TEST ⊞ MAZIER SAMPLE (76mm)												LOGGED <u>KEI</u> DATE <u>14/11/90</u> CHECKED <u>C.LUN</u> DATE <u>1/12/90</u>		REMARKS	

BACHY SOLETANCHE BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS		DRILLHOLE RECORD W. O. PW7/2/27.142 HOLE No. DH-5 CONTRACT GC/89/03 OF C.E.S.DDATE from 27/10/90 to 6/11/90													
PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 3 OF 7															
METHOD ROTARY		CO-ORDINATES E 843076.58 N 814895.22													
MACHINE & No. CMC-41		ROCK COREBIT HX, NX, T6-131, T2-101 & T-76 HOLE DIA. 0.00m-4.80m SX 4.80m-14.80m PX 14.80m-40.00m HX 40.00m-65.00m NX													
FLUSHING MEDIUM WATER		ORIENTATION VERTICAL GROUND-LEVEL +4.29mPD													
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
31/10/90	HX							N=8	5		21.00				See sheet 2 of 7
22								N=8	6	-17.71	22.00				Firm, dark grey silty CLAY with traces of shell fragments. (MARINE DEPOSIT)
23								N=8	7		23.00				
24								N=8	8		23.45				
25								N=8	7		25.00				
26								N=8	7		25.45				
27								N=12	8	-22.91	27.00				GRAVEL, COBBLES & BOULDERS with some light grey clayey sand. Boulders encountered at 41.20m-41.70m. (ALLUVIUM)
28								N=12	8		27.45				
29								N=14	9		29.00				Stiff, brownish yellow and red dappled grey, silty CLAY with traces of fine sand. (ALLUVIUM)
30								N=14	9		29.45				
30	HX									-25.71	30.00				
▲ SMALL DISTURBED SAMPLE ↓ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE □ U 76 UNDISTURBED SAMPLE □ MAZIER SAMPLE (76mm)		▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST		LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90		REMARKS									

BACHY SOLETANCHE BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS		DRILLHOLE RECORD W. O. PW7/2/27.142 HOLE No. DH-5 CONTRACT GC/89/03 OF C.E.S.DDATE from 27/10/90 to 6/11/90													
PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 4 OF 7															
METHOD ROTARY		CO-ORDINATES E 843076.58 N 814895.22													
MACHINE & No. CMC-41		ROCK COREBIT HX, NX, T6-131, T2-101 & T-76 HOLE DIA. 0.00m-4.80m SX 4.80m-14.80m PX 14.80m-40.00m HX 40.00m-65.00m NX													
FLUSHING MEDIUM WATER		ORIENTATION VERTICAL GROUND-LEVEL +4.29mPD													
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
31	HX							N=11	10		31.00				Stiff, dark grey silty CLAY with traces of fine sand & shell fragments. (MARINE DEPOSIT)
32								N=11	10		31.45				
33								N=10	11		33.00				Very dense, light grey silty fine to coarse SAND with a little fine gravel. (ALLUVIUM)
34								N=10	11	-29.71	34.00				
35								N=77	12		35.00				
36								N=77	12	-31.21	35.45				
37											37.00				GRAVEL, COBBLES & BOULDERS with some light grey clayey sand. Boulders encountered at 41.20m-41.70m. (ALLUVIUM)
38											38.00				
39											39.50				
40	40.00m HX										40.00				
▲ SMALL DISTURBED SAMPLE ↓ BULK DISTURBED SAMPLE ■ S.P.T. LINER SAMPLE □ U 100 UNDISTURBED SAMPLE □ U 76 UNDISTURBED SAMPLE □ MAZIER SAMPLE (76mm)		▲ WATER SAMPLE ▼ WATER LEVEL ↓ STANDARD PENETRATION TEST □ PISTON SAMPLE ⊥ PERMEABILITY TEST		LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90		REMARKS									

BACHY SOLETANCHE		BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS		DRILLHOLE RECORD W. O. PW7/2/27.142		HOLE No. DH-5		CONTRACT GC/89/03 OF C.E.S.D. DATE from 27/10/90 to 6/11/90							
PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 5 OF 7															
METHOD ROTARY			CO-ORDINATES E 843076.58 N 814895.22			ROCK COREBIT HX, NX, T6-131, T2-101 & T-76									
MACHINE & No. CMC-41			ORIENTATION VERTICAL			GROUND-LEVEL +4.29mPD									
FLUSHING MEDIUM WATER			ORIENTATION VERTICAL			GROUND-LEVEL +4.29mPD									
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
3/11/90	NX			67					NX		41.00				See sheet 4 of 7
				75					T-76		41.20				
42										-37.71	41.70				Very dense, brownish yellow, very clayey fine to coarse SAND with some gravel. (ALLUVIUM)
43											42.00				
44								N=205 0.23m	13		43.00				See sheet 6 of 7
45											43.45				
46								N=201	14		45.00				See sheet 6 of 7
47											45.45				
48								N=55	15		46.00				See sheet 6 of 7
49											47.00				
50								N=84	16		47.45				See sheet 6 of 7
											48.00				
											49.00				See sheet 6 of 7
											49.45				
											50.00				
LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90										REMARKS					

BACHY SOLETANCHE		BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS		DRILLHOLE RECORD W. O. PW7/2/27.142		HOLE No. DH-5		CONTRACT GC/89/03 OF C.E.S.D. DATE from 27/10/90 to 6/11/90							
PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 6 OF 7															
METHOD ROTARY			CO-ORDINATES E 843076.58 N 814895.22			ROCK COREBIT HX, NX, T6-131, T2-101 & T-76									
MACHINE & No. CMC-41			ORIENTATION VERTICAL			GROUND-LEVEL +4.29mPD									
FLUSHING MEDIUM WATER			ORIENTATION VERTICAL			GROUND-LEVEL +4.29mPD									
Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
5/11/90	NX										51.00				See sheet 4 of 7
											51.45				
52								N=39	17		53.00				Very dense, brownish yellow, very clayey fine to coarse SAND with some gravel. (ALLUVIUM)
53											53.45				
54								N=49	18		55.00				Extremely weak to very weak, light greyish yellow, completely decomposed coarse ash TUFF. (fine sandy SILT) (C.D. TUFF)
55											55.45				
56								N=62	19		57.00				Extremely weak to very weak, light greyish yellow, completely decomposed coarse ash TUFF. (fine sandy SILT) (C.D. TUFF)
57											57.45				
58								N=60	20		59.00				Extremely weak to very weak, light greyish yellow, completely decomposed coarse ash TUFF. (fine sandy SILT) (C.D. TUFF)
59											59.45				
60								N=62	21		60.00				Extremely weak to very weak, light greyish yellow, completely decomposed coarse ash TUFF. (fine sandy SILT) (C.D. TUFF)
LOGGED KEI DATE 14/11/90 CHECKED C.LUN DATE 1/12/90										REMARKS					

PROJECT: PWP ITEM NO.15BA IN CATEGORY B CHAI WAN AMBULANCE DEPOT SHEET 7 OF 7

METHOD: ROTARY
 MACHINE & No.: CMC-41

CO-ORDINATES: E 843076.58
 N 814895.22

ROCK COREBIT: HX, NX, T6-131, T2-101 & T-76
 HOLE DIA. 0.00m-4.80m SX
 4.80m-14.80m PX
 14.80m-40.00m HX
 40.00m-65.00m NX

FLUSHING MEDIUM: WATER
 ORIENTATION: VERTICAL
 GROUND-LEVEL: +4.29mPD

Drilling Progress	Casing depth/size	Water level/time/date	Water Recovery %	Total core Recovery %	Solid core Recovery %	R. Q. D.	Fracture Index. /m	Tests	Samples	Reduced Level	Depth (m)	Legend	Grade	Zone	Description
	NX										61.00				
								N=223	22		61.45				
6/11/90											63.00				
								N=202 0.25m	23		63.40		V		See sheet 6 of 7
	65.00m NX							N=210 0.25m			65.00				
									24	-81.11	65.40				End of drillhole at 65.40m.

SMALL DISTURBED SAMPLE WATER SAMPLE
 BULK DISTURBED SAMPLE WATER LEVEL
 S.P.T. LINER SAMPLE STANDARD PENETRATION TEST
 U 100 UNDISTURBED SAMPLE PISTON SAMPLE
 U 76 UNDISTURBED SAMPLE PERMEABILITY TEST
 MAZIER SAMPLE (76mm)

LOGGED KEI DATE 14/11/90
 CHECKED C. LUN DATE 1/12/90

REMARKS



BACHY SOLETANCHE

BACHY SOLETANCHE GROUP
Chi Wo Commercial Building 3rd-4th Floor
20, Saigon Street Kowloon Hong Kong
TEL: 3-322401 (8 Lines)

CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27/42

0 10 20 30

70 80 90 100

70 80 90 100

HOLE No.	DH-5	BOX No.	2 of 3
DEPTH FROM	6.00M	To	37.00M
DRILLED DATE	27-10-90	To	6-11-90
SITE LOCATION	CHAI WAN		

600

7.50

9.00

12.00

13.50

14.60

35.50

16.00

37.00

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CESD TERM CONTRACT GC/89/03

GROUND INVESTIGATION

WORKS ORDER No. PW 7/2/27/42

0 10 20 30

70 80 90 100

70 80 90 100

HOLE No.	DH-5	BOX No.	3 of 3
DEPTH FROM	37.00M	To	45.45M
DRILLED DATE	27-10-90	To	6-11-90
SITE LOCATION	CHAI WAN		

3700

3800

39.50

4100

42.00

3800

41.00


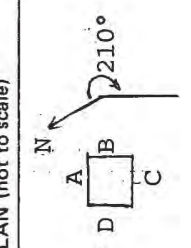
45.45

45.45

41.00

42.00

V. TRIAL PIT LOGS AND PHOTOGRAPHS

		BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS		<h1>TRIAL PIT RECORD</h1>			
G. C. O. C. E. S. D.		CONTRACTOR: B.S.G. WORKS ORDER No. PW7/2/27.142 DATUM= +4.30 m.P.D.		SHORING: NIL LOGGED BY: KEI		DATE: 10/11/90	
CO-ORDINATES: E 843054.02 N 814893.83 EXCAVATION DATES: 11/10/90		PIT No.: TP-1 LOCATION: Chai Wan		LEGEND 0.00 0.05 Concrete Loose to medium dense, grey, pinkish brown & yellowish brown clayey silty fine to coarse SAND with some angular gravel, cobbles & boulders & traces of red brick & wood. (Fill)		GRADE 2.00 (End of trial pit at 2.00m)	
SAMPLES & TESTS 0 0.5 1.0 1.5 2.0 2.5 D (M)		DEPTH 0 0.5 1.0 1.5 2.0 2.5 D (M)		DESCRIPTION Concrete Loose to medium dense, grey, pinkish brown & yellowish brown clayey silty fine to coarse SAND with some angular gravel, cobbles & boulders & traces of red brick & wood. (Fill)		REMARKS: No water seepage.	
T.P. 1 SHEET 1 OF 1		PLAN (not to scale)		SAMPLES/TESTS/WATER Small dist. sample Large dist. sample Undist. sample hori. () Undist. sample vert. () Block sample Plate bearing test Insitu density test Moisture content test Water sample Seepage		PLAN (not to scale) 	
FACE A:		FACE B:		FACE C:		FACE D:	







		BACHY SOLETANCHE GROUP SOIL & FOUNDATIONS SPECIALISTS		<h1>TRIAL PIT RECORD</h1>	
G. C. O. C. E. S. D.		CONTRACTOR: B.S.G. WORKS ORDER No. PW7/2/27.142		SHORING: NIL LOGGED BY: KEI	
PIT No.: TP-2 LOCATION: Chai Wan		CO-ORDINATES: E 843080.92 N 814886.33 EXCAVATION DATES: 11/10/90		T. P. 2 SHEET 1 OF 1	
DEPTH 0 0.5 1.0 1.5 2.0 2.5 (M)		LEGEND [Symbol] Asphalt surface [Symbol] Medium dense, yellowish brown silty sandy fine to coarse GRAVEL with a little angular cobbles & boulders. [Symbol] (FILL)		SAMPLES/TESTS/WATER Small dist. sample () Large dist. sample () Undist. sample hori. () Undist. sample vert. () Block sample () Plate bearing test () Insitu density test () Moisture content test () Water sample () Seepage ()	
GRADE 0.17 1.50		DESCRIPTION Asphalt surface End of trial pit at 1.50m. Remark : Ground water level : 0.82m.		PLAN (not to scale) 	
SAMPLES & TESTS				FACE A: FACE B: FACE C: FACE D:	





COORDINATES AND LEVEL OF BOREHOLES

BOREHOLE NOS.	COORDINATES		LEVEL
	EAST	NORTH	
DH 1	11SE 14 D2 843069.73	814918.25	+4.32mPD
DH 2	843062.02 "	814913.77	+4.37mPD
DH 3	843072.39 "	814904.86	+4.34mPD
DH 4	843084.60 "	814901.52	+4.33mPD
DH 5	843076.58 "	814895.22	+4.29mPD
TP 1	843054.02 "	814893.83	+4.30mPD
TP 2	843080.92 "	814886.33	+4.25mPD

VI. SURVEY RECORDS

VII. LOCATION PLAN

