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ATTACHMENT-1: LOG OF CORE BORING AND AUGER BORING

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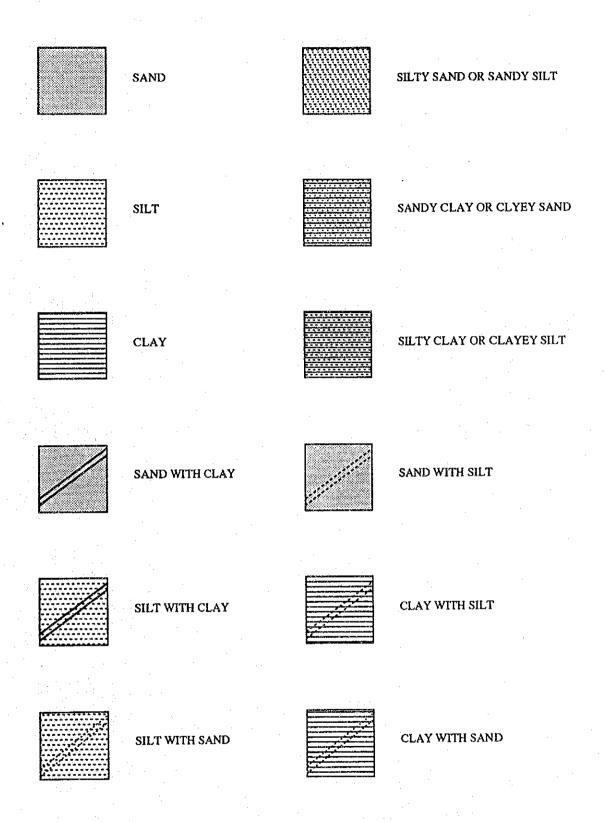


Figure A.1-1 LEGEND OF LOGS OF CORE BORIG AND AUGER BORING

EVE	ş			ADMIC SECRETARISM	j-Alex-Bre		TOTUE	LOVEN	ager ball or just	Oliman A	NT (%)		GR	ADAT	 10N	J	PLAST	KIIY	×	en e
GROUNDWATER LEVEL	SALIPUNG NO. AND	ž	DEPTH (m)	PROFILE		N	l V	ALU	JE		MOSTURE CONTENT (%)	રે			T				CLASSIFICATION	DESCRIPTION
nous Sub	SALKS		Ö		1	0 4	20 3	ю 4	0.5		MOISTU	GRAVEL (%)	SAND (%)	SCT (%)	(c)	D se (mm)	£ ∃	Œ.	C.AS	
	SPT1		→ 0.50 — 1.00 — 1.50		15	8					17.9	0	28	7	2	0.055	NΡ	•	ML	Light brown and grey, silt with some fine sand (firm)
	SP13		2.00 - 2.50 - 3.00 - 3.50		6						25.0	٥	15	8	5	0,036	NΡ	-	ML	Dark grey, non plastic sit with little fine sand (firm)
5.10	SPT4		- 4.00 - 4.50 - 5.00		4	9		-			23.2	0	90	1	0	0.16	NP	.	SP-SM	Light grey, line sand and silt (loose)
	SPT6		- 5.50 - 6.00 - 6.50 - 7.00			8 9					25.1	0	18	8	2	0.042	NP	-	ML	Light brown, fine sand with little silt (loose)
	SPT0		- 7.50 - 8.00 - 8.50 - 9.00				 6 17				23.9	0	93		7	0.19	NP	-	SP-SM	Light gray, fine sand with trace silt (med. dense)
	SPT10		- 9.50 - 10.00	//			20								_					
			- 10.50 - 11.00 - 11.50 - 12.00 - 12.50 - 13.00 - 13.50 - 14.50 - 14.50 - 15.00 - 15.50 - 16.00		Heig	ht c	of Ex	istin	g Er	mba	nkmen	1 : 2.3	0 m							
			- 17.00 - 17.50 - 18.00 - 18.50 - 19.00 - 19.50 - 20.00																	

DISTURBED SAMPLING (SPT) UNDISTURBED SAMPLING	BORING <u>B1</u> ELEVATION <u>31.96</u> m	Figure A.1-2 LOG OF CORE BORING, BOREHOLE B1

GPOUNDWATER LEVEL		NO. AND		Ê	i ii		*******	M.		A. I.	(P		ONTENT (%)		GR	ADA	TIOI	٧	PLAST	KITY	ATION	DECORIETION
GROUNDW		SAMPLING NO. AND		ОЕРТН (m)	PROFILE		15		V.	ALI		0	MOISTURE CONTENT (%)	GRAVEL (%)	(x) arrys	Sict (%)	CLAY (%)	D 20 (mm)	(%) Ti	<u>c.</u>	CLASSIFICATION	DESCRIPTION
	ø	PT1	I	- 1.0		7	\4						6.4	0	85		15	0.14	NΡ	-	SM	Light brown, very fine sand with little sit (loose)
		РТ2		- 1.50 - 2.00 - 2.50		.1.		9			٠								36	10		Light brown and gray, medium compressible site with trace sand (allf)
		PT3		- 3.00 - · 3.50 - 4.00			6	,		÷			22.1	0	28		72	0.055	NP	-	ML	Light brown, fine sand and silt
5.20 V	0 ⁵¹	PIS		- 4.50 - 4.50 - 5.00			5						19.3	0	53		47	0.079	NP	^	SM	(100s 0)
	1	PT6	I	- 5.50 - 6.00 - 6.50		4	2	2.5		-			:		-							Light brown & grey, sift with some sand (soft)
		P17		- 7.00 - 7.50			2						19.8	0	23		77	0.044	NP	•	ML	Grey, silt with some fine sand, trace decomposed wood
		PT9		- 8.00 - 8.50 - 9.00		7		14	· .				28.7	0	10		90	0.024	NP	•	ML	(soft) Grey, silt with trace line sand
	5	PTIO		- 9.50 - 10.00			leig	ht o		istin	a Er	nba	nkmen	t : 2.8	3 m							(slift)
				- 10.50 - 11.00 - 11.50																		
			111111111111111111111111111111111111111	- 12.00 - 12.50	,																	
				- 13.00 - 13.50 - 14.00																		
					1									-								
	***************************************			- 15.50 - 16.00 - 16.50						·												
			111,111,111,111	- 17.00 - 17.50																		
			100000000000000000000000000000000000000	- 18.00 - 18.50 - 19.00																		
			THEFT	- 19.50 - 20.00																		

DISTURBED SAMPLING (SPT) UNDISTURBED SAMPLING	BORING <u>B2</u> ELEVATION <u>30.08</u> m	Figure A.1-3 LOG OF CORE BORING, BOREHOLE B2

TER LEY	(E) H	AL MALINE	WITENT (%)	GF	RADATION	PLASTICITY	ATON	
GROUNDWATER LEVEL SAMPLING NO. AND TYPE	DEPTH (m)	N VALUE	MOISTURE CONTENT (%)	GPAVEL (%)	SLT (%) CLAY (%) D = (mm)	38 <u>a</u>	CLASSIFICATION	DESCRIPTION
SP11 TE	0.60 1.00 1.50 2.00	3	23.5	0 23	2 78 0.04	7 NP	- ML	Grey, silt with some fine sand (soft)
SPT2	2.60 3.00 3.50 4.00	16	29.0	0 89) 11 0.	12 NP	- SP-SM	Light grey, fine sand with little silt (loose to med. dense)
SP74	5.00 5.50 6.00 6.50 7.00	17						Light grey, fine sand with little si∕t
SP16	7.50 8.00 9.00	16	25.4	0 89	5 15 0.	I6 NP	- SM	
\$917	9.50 10.00 10.50 11.00	14	19.0	0 9	9 0.	18 NP	- SP-SM	
SPTS E	12.00 12.50 13.00 13.50 14.00	27	21.5	0 90) 10 O.	13 NP	- SP-SM	Light grey, fine sand with trace silt (med. dense)
SPT10	14.50 15.00 15.50 16.00	28	22.0	0 9	9 0.	16 NP	- SP-SM	
SPT12 E	16.50 17.00 17.50 18.00 //	30	23.9	0 9	9 0.	IO) INF	- 51-511	Grey, tine sand with trace silt (dense)

DISTURBED SAMPLING (SPI)	BORING <u>B3</u>	Figure A.1-4
UNDISTURBED	ELEVATION23.50 m	LOG OF CORE BORING, BOREHOLE B3
I SAMPLING		

GROUNDWATER LEVEL	3 NO: AND	TYPE	(E)	-it.E	N VALUE		N VALU			OMTENT (%)		GRA	ADAT	IOI	١	PLAST	юпу	ATION	DESCRIPTION	
GPOCHOW	SAMPLIN	<u>}</u>	OEPTH (m)	PROFILE	10		v 3			so	MOISTURE CONTENT (%)	GPAVEL (%)	(%) ONAS	SILT (%)	CLAY (%)	D as (mm)	(%) 11	Q,	CLASSIFICATION	DESCRIPTION
	SPT1	I	1.50		4						24.2	0	56	4	4	0.092	NP		SM	Light brown, fine sand and silt (loose)
	SP12	ľ	2.50 3.00 3.50 4.00 4.50		6						16.0	0	9	9	1	0.031	NP	•	ML	Light brown and gray, non plastic silt with trace line saw (firm)
65 7	SPT4		5.00 5.50 6.00 8.50				7													Light brown, tine sand with little si (loose to med. dense)
	SP15	1	7.00 7.50 8.00			9					35.0	0	87	1	3	0.15	NP	÷	SM	Grey, fine sand with little sit (loose)
	SPTE		9.50 9.50				6													Grey, line sand with trace silt (med. dense)
	\$PT7	\mathbf{I}	10.80					27			24.4	0	97		3	0.18	NP	-	SP	
	SPT#		11.50 12.00 12.50 13.00				21													Light grey, line sand with trace si (mod. dense)
	SPTO	I.	13.50 14.00 14.50				22				23.6	•	95		5	0.15	NР	•	SP-SM	
	SPTI		15.00					26	06		25.2	0	96		4	0.13	NP	-	SP	
	SPT1		16.50 17.00 17.50					32	36		4 3.2	0	90		→	V. 13	1412		35	Grey, fine sand with trace sift (dense)
			18.50						38		25.2	0	95		5	0.19	· NP		SP-SM	Light groy, fine sand with trace s (dense)

SAMPLING	BORING B3' ELEVATION 29.40 m	Figure A.1-5	LOG OF CORE BORING, BOREHOLE B3'

GROUNDWATTER LEVEL		SAMPLING NO AND TYPE	ОЕРТН (m)	PROFILE		N VALUE		MOISTURE CONTENT (%)		GR	ADATIO	N	PLA91	кпү	ATION	orcopintion	
SPOROES		R PER PER	DEPT	g O	10	20	٠	50	MOISTURE	GRAVEL (%)	(X) QWS	SLIP.	O .e. (mm)	(%) Ti	ō.	CLASSIFICATION	DESCRIPTION
			0.50														Light brown and grey, non plastic sift with little fine sand
1.8 ∑ <u>∑</u>		n	1.50		6				39.0 28.2	0	8	92 97	0.024	42 43	13 14	ML.	Light brown and grey, medium compressible sitt with trace sand (firm)
	SP	172	3.00		6												Dark brown and grey, medium plastic clay (firm)
	SP	13	4.00 4.50 6.00		5				28.9	0	47	53	0.071	NP	•	ML	Light brown, non plastic silt and sand (firm)
	SP	<u>"</u>]	5.50 6.50		10)											Light brown, fine sand with little silt (loose)
	SP	is T	7,00			3			26.4	0	85	15	0.15	NP	-	SM	
	SPI	re T	9.00			2	3										Light gréy, line sand with little silt (med. dense)
	SPI	7	9,50 10,00 10,50			2	3		22.0	0	90	10	0.18	NP		SP-SM	
	SPT	• <u> </u>	11.50			20		,									
	SPI	, 1	12.00			18			29.6	0	95	5	0.19	NP	-	SP-SM	Grey, line sand with trace sit
	SPT	10 000	14.50 15.00 15.50			16 											(med. danse)
	SPT		- 16.00 16.50 17.00			18			28.9	0	94	6	0.13	NP	-	SP-SM	
	SPT	12				12	4										Light grey, fine sand with trace sift (med. dense)
	SPT	. 1 39 1-	- 19.00 - 19.50 - 20.00	//			26		27.7	0	97	ġ	0.17	NP	-	SP	

DISTURBED SAMPLING (SPT) UNDISTURBED SAMPLING	BORING <u>B4</u> ELEVATION <u>23.60</u> m	Figure A.1-6 LOG OF CORE BORING, BOREHOLE B4

	GROUNDWATER LEVEL	SALIPLING NO. AND	Ē.	DEPTH (m)	PROFILE		***************************************	v v	/AL) [MOISTURE CONTENT (%)		GR	ADAT	IOI	N	PLAST	ricny	NOTA:	DECODINE
	GROCKED	SAMPLIN	-	1430	eg.					40	50	MOISTURE	GRAVEL (%)	SAND (%)	SLT(7.)	CAY (2)	0 (mm)	(%) 77	Q,	CLASSIFICATION	DESCRIPTION
		SPTI	I	0.50 1.00	.//	ľ	 6 					17.8	0	32	6	8	0.054	NP	-	, ML	Yellowish brown, silt with some line sand (firm)
		SPT2		1.50 2.00	22.000		5														Light brown, very fine sand with trace silt (loose)
		SPT3	Н	2.50	1000000	5						6,9	0	90	1		0.16	NP		SP-SM	Light brown and grey, medium plastic day vish little fine send (firm)
		SPT4		3.00 3.50	· · · · · · · · · · · · · · · · · · ·	1															Light brown, fine sand with fittle silt
				4.00	11		9														(loose)
		SPTS	Ш	5.00	WW.	\	8					5.2	0	89	1	1	0.18	NP	-	SP-SM	
		SP16		- 5.50 - 6.00			11	i 													Light brown and grey, silt and sand
	6.80 <u>V</u>	5P17		6.50 7.00			10					24.8	0	37	6	3	0.059	NΡ	-	ML	(डार्बी)
		SPTB		7.50			\	4													
·		SOTO	T	8.50	<i>#</i>		1	21		1.		24.3	0	30	7	,	0.048	NP	_	ML	Light brown and grey,
				- 9.00 - 9.50	//	:				:		2.1.0	Ĭ	J	•		0.040			1411	silt with some fine sand (very sittf)
		SPT10		10.00		Heig		17 f Ex	istin	g Er	nbar	nkmen	t : 2.8	0 m	· · · · · · · · · · · · · · · · · · ·	1		·			
				- 11.00					1												·
				- 11.50 - 12.00																	
				- 12.50								,									
				- 13.00 - 13.50																	
				- 14.00 - 14.50																	
			14111111				٠.,														
				- 15.50 - 16.00																	
			THEFT	- 16.50 - 17.00														-			
				- 17.50					1.												Ì
			11111111	- 18.00 - 18.50			٠	•					•		٠.				. :		
			TITITI	- 19.00										• •							
			The state of	- 19.50 - 20.00																	
			ш	- 20.00																	

and the second s		
DISTURBED SAMPLING (SPT)	BORING B5	Figure A.1-7
	ELEVATION 25.50 m	LOG OF CORE BORING, BOREHOLE B5

•	SPOUNDWATER LEVEL	SAMPLING NO. AND TYPE	ОЕРТН (т)	PROFILE		N VALUE		MOISTURE CONTENT (%)		GR	ADATIO	N	PLA91	ICITY	SATION	DESCRIPTION	
	GROUND	SAMPUR	DEP	PRC	10			40 50	MOISTURE	GRAVEL (%)	SAND (%)	SILT (%)	് (നമ്പ)	רר (אי)	d.	CLASSIFICATION	DESORIE HON
		SPTI I	- 0.50 - 1.00 - 1.50		5				16.6	o	15	85	0.049	NP		ML	Light brown and grey, non plastic sitt with little fine sand (firm)
-		SP72 T	- 2.00 - 2.50		9												
	4.20 \ <u>\<u>\</u></u>	SP13 TE	3.50 3.50 4.00					·	20.7		:	7*7	0.000		·		Light brown and grey, non plastic sit with some fine sand (stiff)
			4.50 5.00 5.50		9				20.7	0	23	77	0.058	NP	•	ML	Light brown and groy,
		SPT4	6.00 6.50 7.00	//		2 		-								-	fine sand with some silt (med. dense) Grey, medium compressible silt with trace fine sand
		\$P 15	7.50 8.00		6				31.1	0	10	90	0.034	34	7	ML	(firm) Light brown and grey,
		SP 16	9.00 9.50		4												medium cornpressible silt with trace sand (firm)
		\$977	10.00 10.50 11.00		6				32.6	0	13	87	0.038	NP	٠-	ML	Grey, non plastic silt with little fine sand
		s»1• TE	11.50 12.00 12.50		9						·						(firm to stiff)
:		SP10 E	13.00 13.50 14.00						33.8	0	13	87	0.037	NP	-	ML	Grey, non plastic silt with little fine sand (stबी)
		SPTIO TE	14.50 15.00			1	31						-				
		SPT11	15.50 16.00 16.50				\	40	25.0	0	92	8	0.13	NP	-	SP-SM	links and the same of
		22712	17.00 17.50 18.00					44									Light grey, fine sand with trace silt (med. dense to dense)
	. :	السالسالي	18.50 19.00 19.50														
		SPT10	20.00	H	leight d	of Ex	disting	48 g Emba	22.9 nkmeni	3.80	97) m	3	0.18	NP	· <u></u>	SP	

DISTURBED SAMPLING (SPT) UNDISTURBED SAMPLING	BORING <u>B6</u> ELEVATION <u>23.50</u> m	Figure A.1-8 LOG OF CORE BORING, BOREHOLE B6

	GROUNDWATER LEVEL	SAMPLING NO. AND	776	DEРТН (m)	PROFILE	-	N	VA	LUE		MOISTLERE CONTENT (%)		GR.	ADATIO	N	PLA91	ICITY	MOTA	DESCRIPTION
• • •	GROUNDM	ALIGNAS	f-	DEPT	OH.	to				50	MOESTURE	GPAVEL (%)	SAND (%)	SILT (%)	D se (mm)	(%)	<u>Q.</u>	CLASSIFICATION	DESCRIPTION
				- 0.50 - 1.00															Light brown, non plastic silt with some line sand
		SPT1	1	- 1.50 - 2.00 - 2.50		7	12				12.0	0	42	58	0.065	NP	-	ML	Light brown and gray, non plastic silt and fine sand (firm to stift)
	3.55 <u>Y</u>	Į .	7	- 3.00 - 3.50 - 4.00									:						Dark grey, medium plastic day (stiff)
		6613		- 4.50 - 5.00			16				12.5	0	67	33	0.094	NP	-	SM	
		SPT4	I	- 5.50 - 6.00 - 6.50			16	3 1											Light brown, fine sand with some to little sift (med. dense)
		SP15	I	- 7.00 - 7.50				8			19.0	0	83	17	0.16	NP	-	SM	
		SPT6		- 8.00 - 8.50 - 9.00		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	V.	100										Grey, fine sand with trace silt (med. dense)
		S917		- 9.50 - 10.00 - 10.50				2	7		25.8	0	98	2	0.19	NP	-	SP	Light grey, fine sand with trace silt (med. dense)
		SPT8	Title	- 11.00 - 11.50					31								,		
		SPTS	Tan San San	- 12.00 - 12.50 - 13.00					35		22.5	o	99	1	0.20	NP	_	SP	
			unuluı	13.50 - 14.00 - 14.50							22.0	Ĭ		•,	0.20			3.	Grey, fine sand with trace silt (dense)
		SPT10		- 15.00 - 15.50	ji J				35		.:								
		SPT11		- 16.00 - 16.50 - 17.00					38		25.2	0	91	9	0.15	NP	-	SP-SM	
		SPT12		- 17.50 - 18.00 - 18.50	/				4	 									Light grey, fine sand with trace silt
			Tritition	- 18.50 - 19.00 - 19.50															Light grey, tine sand with trace sin (dense)
		SPT12	I	- 19.50 - 20.00			\perp		38	-	24.6	o t : 2.9	93	7	0.18	NP	-	SP-SM	

DISTURBED SAMPLING (SPT) UNDISTURBED SAMPLING	BORING <u>B6'</u> ELEVATION <u>21.75</u> m	Figure A.1-9	LOG OF CORE BORING, BOREHOLE B6'
			• •

GROUNDWATER LEVEL	SAMPUNG NO AND	<u>پ</u>	Ē	-H.E.		N VALUE		ONTENT (%)		GR	ADATI	ON		PLAST	ЮПЧ	ATION	neo ampriosi		
CPOUND!!	SAMPUN	Δ.	0ЕРТН (m)	PROFILE	11			(O) :	50	MOISTURE CONTENT (%)	GRAVEL (%)	SAND (%)	SILT (%)		C to (min)	(%) TI	ō-	CLASSIFICATION	DESCRIPTION
	SPTI	1	- 0.50 - 1.00			3				28.7	0	26	74	0.	054	NΡ	-	ML	Light brown and grey, non plastic sitt with some fine sau (firm)
2 60	SPTZ	I	- 1.50 - 2.00			6												·	Light brown, non plastic six with little fine sand (firm)
_ <u>∓</u> 5'€0	SPT3	I	- 2.50 - 3.00	//		11	 			27.0	o	64	36	О.	089	NP	_	SM	
	SPT4	I	- 3.50 - 4.00			8											•		Light brown, line sand with some (loose to med. dense)
	SPTS	I	- 4.50 - 5.00	/		8				30.3	o	84	16		0.16	NP	-	sм	
	SPT6	TE	- 5.50 - 6.00			13	 3 							-		:			Light grey, fine sand with little s (med. dense)
	\$P17	I	- 6.50 - 7.00	 /		9	:	·		19.3	0	85	15	(0.13	NP		SM	
	SPTA	I	- 7.50 - 8.00	//		12	2												Grey, line sand with trace to little
	SPTO	I	9.00	<i>[]</i>			18			12.9	0	92	8	(0.20	NP	•	SP-SM	(loose to med. donse)
	SPT10	T	- 9.50 - 10.00		_		19	 	3- -										
		ntuntu	- 10.50 - 11.00				·											, i	
		անույ	11.50 12.00								* :								
		աաա	- 12.50 - 13.00																·
		natandar	- 13.50 - 14.00														-		
		1	14.50					 										:	
		<u> </u>	15.50 - 16.00																
		Trucker																	
		ռիավացիայիորիավումեանուն	17.50 18.00								·								
		minn	18.50 19.00																,

DISTURBED BORING B7 UNDISTURBED SAMPLING BORING B7 ELEVATION 20.40 m	Figure A.1-10 LOG OF CORE BORING, BOREHOLE B7
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GROUNDWATER LEVEL	SWO AND	ТҮРЕ	ОЕРТН (т.)	PROFILE	N VALUE			N VALUE			LOSTURE CONTENT (%)		GR	ADATIO	N	PLAST	юпч	NOTE	DESCRIPTION
GROUNDIA	WI ICATAS	f-	755A		1				40	50	NOSTURE C	GRAVEL (%)	SAND (%)	SILT (%) CLAY (%)	(mm) a C	(%) TI	d.	CLASSIFICATION	DESCRIPTION
	SPT	• 1	0.50	j,	2						41.7	0	5	95	0.020	43	13	ML	Light grey, medium compressible sit with trace fine sand (soft)
	SPT:		2.00 2.50		4						34.4	0	6	94	0.022	36	9	ML	Light brown and grey, non plastic silt with trace sand (firm) Light brown, medium compressible silt with trace sand (firm)
4.34 \(\frac{\sqrt{2}}{\sqrt{2}}\)	SPT-		3.00 3.50 4.00		1	 7 									0.022		v	1716	Light brown and grey, non plastic sit with some fine sand
	SPT:	I	4.50 5.00 5.50			7 					25.6	0	22	78	0.045	NP		ML	(firm)
2	SPT4		6.50		4						32.9	o	2	98	0.018	37	11	ML	Grey, non plactic with with some line cand (firm) Grey, medium compressible silt
	SPTE	I	- 7.00 - 7.50 - 8.00	//	5													·	with trace sand (firm)
	SPT	I	- 8.50 - 9.00			10					25,1	0	9	91	0.026	NP	-	ML	Grey, non plastic sit with little fine sand (e&ff) Grey, time sand with some sitt
	SPTI	Ţ	9.50 - 10.60 - 10.50		Heig		18 f Ex	istin	g Er	nbar	 nkmen	3.1	0 m						(med. dense)
			- 11.00 - 11.50 - 12.00												·				
			- 12.60 - 12.50 - 13.00															·	
			- 13.50 - 14.00 - 14.50						٠			-							
			- 15.00					:				-							
			- 16.00 - 16.50 - 17.00															:	
			- 17.50 - 18.00											-					
			- 19.50 - 19.00 - 19.50					÷									:		
			- 20.00																

and the state of t					
DISTURBED SAMPLING (SPT) UNDISTURBED SAMPLING	BORING <u>B8</u> ELEVATION <u>23,50</u> m	Figure A.1-11	LOG OF CORE B	ORING, BOREHOLE	В8 .

TER LEVEL		NO. AND	E		iii	N VALUE			NTENT (%)		GR	ADA ⁻	TIOI	N	PLAST	KITY	Tion	er gelan insig grackens it. Helfen heldt it sie der der en met er gerengen en men fen ich bestellt. Der Gestellt den			
GROUNDWATER LEVEL		SAMPLING NO. AND TYPE	ОЕРТН (m)		PROFILE	1					5 0	MOISTURE CONTENT (%)	GPAVEL (%)	SAND (%)	SILT (%)	CLAY (%)	D _{se} (mm)	(%)	<u>o</u>	CLASSIFICATION	DESCRIPTION
	Τ		0.5						Γ				and the state of t	**********					100-1 + 140 pg (et lang		Light brown, line sand with some silt (loose)
	s¢	רי [[1.0 1.0 1.5	0					3	3 		14.5	0	52		48	0.077	NΡ	-	SM	Light brown, fine sand and sitt (dense)
	SP	12	2.5	٥	,/	(6					·									Light grey, fine sand with little silt (loose)
	SP	13	3.0	٥	<i>,</i>			6				8.1	0	75		25	0.10	NΡ	٠	SM	Light yellowish brown & grey, fine sand with some silt (med. dense)
$\frac{1}{2}$	2 SF	Ш	4.0 4.5	الله الله		(6					29.0	0	7		93	0.010	40	16	ML.	Grey, medium plastic clay (firm)
	SP		5.0	0			1	4				18.1	0	62		38	0.087	ΝP	•	SM	Yellowish brown & gray, fine sand and sitt (med. dense)
	SP	"I	6.0 6.5 7.0	٥	<u></u>				31	 		22.6	0	86		14	0.13	NP	+	SM	
	sp	16 1	7.5 8.0		#			2	3										. :		Grey, line sand with trace to little sit (med. dense to dense)
	ŞP	" I	9.0	•	,			18				15.6	0	92		8	0.18	NP	•	SP-SM	
	SÞ	па	9.5					21	!	L_		1									
			10.5			Heig	ht c	f Ex	istin	g E	mba	nkmen	t : 1.7	'0 m							
	l		11.0	1																	
			11.5																		
	ļ		12.00	1																	
			12.50	1									İ			ļ					
			13.00	,	•																
			13.50	,	1																
.			14.00																		
			13.50 14.00 14.50																		
			15.00																		
			15.50																		
	-		16.00													ļ	}				
			16.50										.			.					
			17.00														ļ				
-			17.50			.															·
			18.00 -	i				٠.									. 1				
			18.50	. 1				-													
1			19.00														İ				
			19.50									·		*.		.					
	L		20.00																		

DISTURBED BORING B9 Figure A.1-12
UNDISTURBED SAMPLING

ELEVATION 25.49 m LOG OF CORE BORING, BOREHOLE B9

GROUNDWATER LEVEL	SAMPLING NO. AND		(iii)	9	er en en en en en en en en en en en en en	N VALUE		N VALUE		N VALUE		VALUE		VALUE		ONTENT (%)	-	GR	۸DA	TIOI	N	PLAST	юпу	ATION	PECODIDION
GROUNDW	SAMPLING	=	ОЕРТН (т)	PROFILE	1:) [. 0 5	0	MOSTURE CONTENT (%)	GRAVEL(%)	SAND (%)	Stl.T (%)	CLAY (%)	D w (mm)	(%)	<u>c</u>	CLASSIFICATION	DESCRIPTION					
			- 0.50																	Light brown and grey, line sand and silt					
	SPTI		- 1.00 - 1.50			/ 1	3				21.7	0	36		64	0.060	NP	- !	ML.	Grey, silt and line sand (stiff)					
2.67	SPT2		- 2.00 - 2.50			7 									•					Grey, silt with some line sand (firm to slift)					
2.67	eras.	I	3.00	<u> </u>		8 -					29.4	0	27		73	0.051	NР	•	ML						
	SPT4		- 3.50 - 4.00	//	É	 								-						Grey, fine sand with little silt (loose)					
	SP15	I	- 4.50 - 5.00	/	Į	8					23.3	0	84		16	0.14	ŃР	-	SM						
	SPT6		- 5.50 - 6.00	1			7	27 																	
	SPT#	I	- 6.50 - 7.00				21				24.4	0	95		5	0.20	NP	-	SP-SM						
	SP18	I	- 7.50 - 8.00				2:	3												Light grey, fine sand with trace mica (med. dense)					
	SPT®	I	- 8,50 - 9.00	1			19				26.1	0	94		6	0.19	NP	-	SP-SM						
	SPT10		- 9.50 - 10.00			. '	22																		
			- 10.50																						
-		13.144	- 11.00								· ·		*												
			- 11.50 - 12.00								-:														
		المنافقة	- 12.50																						
			13.00																						
			- 13.50														·								
			- 14.00					•																	
			- 14.50 - 15.00								:	,													
			15.50														<u> </u>								
			- 16.00											:			[
		تفالفان	- 16.50																						
			- 17.00																						
		1	- 17.50 - 18.00		:				٠.																
			18.50	- 1 - 1												٠.									
			- 19.00																	·					
			19.50																-						
			- 20,00		4																				

DISTURBED SAMPLING (SPT)	BORING B10	Figure A.1-13
UNDISTURBED	ELEVATION _25.70 m	LOG OF CORE BORING, BOREHOLE B10
☐ SAMPLING		

FE	9							E GRADATION						PLASTICITY					
WATER	SAMPLING NO. AND	34	DEPTH (m)	PROFILE		١	1 V	AL.	UE		CONTEN				***************************************	10.5	~!!!	KATIO	DESCRIPTION
CHOUNDWATER LEVEL	SAMP		C)	ď.	. 1	10	20 :	30	40	50	MOISTURE CONTENT (%)	SAND (%) SILT (%) D as (mm)		(%) Ti	<u>o</u>	CLASSIFICATION			
	SPT1		0.50 1.00			 5					12.5	0	56	44	0.083	NP		SM	Light brown, fine sand and sift (loose)
	U-1 SPI2		1.50 2.00			6					29.9	0	4	94	0.010	43	17	CL	Light brown, medium plastic clay (firm)
2.84	SPT3		2.50 - 3.00		١	10					25.6	0	39	61	0.061	NΡ	-	ML	Light yellowish brown and grey, sit and fine sand (stiff)
	SPT4		3.50 4.00			9													Light grey, line sand with some silt (loose)
	SPTS		4.50 - 5.00	ji J	(8					23.8	o _.	33	67	0.054	NP	-	ML	Grey, silt with some tine sand (stiff)
	SPT6		- 5.50 - 6.00 - 6.50			•	1	28								-			Grey, fine sand with little silt
	SP17		- 7.00 - 7.50	/				27			25.2	0	87	13	0.18	NP	-	SM	(med. dense)
	SPTs		- 8.00 - 8.50	1			2	4			Į					·			Light grey, tine sand with trace sitt
	SPTS		- 9.00 - 9.50	//				26			29.0	o	96	4	0.14	NP	-	SP	(mod. dense)
	SPT10		10.00				2	4											
			- 10.50 - 11.00											٠					
			- 11.50 - 12.00									:							
			- 12.50																
			- 13.00 - 13.50																
		111111	- 14.00 - 14.50																
	٠.	111111	- 15.00							Ī									
		Hereit L	- 15.50 - 16.00																
		יונינונו	- 16.50 - 17.00																
			- 17.50																
		بالسيمال	- 18.00 - 18.50													٠			
		1	- 19.00 - 19.50																
		characters:	20.00			:													

DISTURBED BORING B11 Figure A.1-14
UNDISTURBED SAMPLING

BORING B11 Figure A.1-14

LOG OF CORE BORING, BOREHOLE B11

ATERI	SAMPLING NO. AND	<u>.</u>	DEPTH (m)	PROFILE		N VALUE		MOISTURE CONTENT (%)	GRADATION				PLASTICITY	ATION	DECODIDATION				
GROUNDWATER LEVEL	SAMPUN		DEPT	PRO	1	٠			10 51	0	MOISTURE	GRAVEL (%)	(%) GNYS	SILT (%)	D (mm)	FT (%)	<u>o</u> .	CLASSIFICATION	DESCRIPTION
0.7			- 0.50							CO MARCON							-ire secure res An		Light brown and grey, tine sand and sit
.87 <u>V</u>	U-1 8P11	I	- 1.00 - 1.50 - 2.00		2		-				41.8 46.4	0	10	99 90	0.016 0.026	46 49	20 19	CL ML	Dark grey, medium compressible sit with trace sand and organic matter (soft)
	5P12	I	- 2.50 - 3.00 - 3.50		4,5	5													Grey, fine sand with little sat (loose)
	SPT3	I	- 4.00 - 4.50 - 5.00		5						28.9	0	72	28	0.10	NP		SM	Grey, fine sand with some silt (loose)
	SP14		- 6.50 - 6.50			1	3 												·
	SPTS	J	- 7.00 - 7.50 - 8.00				20				19.7	0	90	10	0.19	NΡ	•	SP-SM	Grey, tine sand with trace silt (med. dense)
	SPT6	1	- 8.50 - 9.00 - 9.50	lj I			14							·					
	SP 17	I	- 10.00 - 10.50 - 11.00				2	2	÷		22.9	0	83	17	0.15	NP	-	SM	Light grey, fine sand with little six (med. dense)
	SPTa	I	- 11.50 - 12.00 - 12.50	//_	:		20												
	SPTO		- 13.00 - 13.50 - 14.00				18				23.0	0	99	1	0.20	NΡ		SP	Light grey, fine sand with trace silt (med. dense)
	SP#10		- 14.50 - 15.00 - 15.50	//			20	17. 11.	1.										Grey, non plastic silt with little fine san
	SPT11		- 16.00 - 16.50 - 17.00				19				24,3	0	20	80	0.047	ΝP		ML	(very stift) Bluish grey, fine send with little sift
	SPT12		- 17.50 - 18.00 - 18.60	<u>/</u>			2	4			·								(med. dense)
	SPT13	T	- 19.00 - 19.50			٠.		5			21.3	0	97	3	0.17	NP	_	SP	Light grey, line sand with tarce silt (med. dense)

DISTURBED SAMPLING (SPT)	BORING B12 FLEVATION 23.00 m	Figure A.1-15	
UNDISTURBED SAMPLING	ELEVATION		LOG OF CORE BORING, BOREHOLE B12

GROUNDWATER LEVEL	SAMPLING NO. AND	Ę.	ОЕРТН (m)	71.E	N VALUE			MOISTURE CONTENT (%)	GRADATION		PLAST	юпч	ATION	DESCRIPTION			
GROUNDW/	SAMPLIK	ř.	эерт	PROFILE	10			50	MOISTURE C	GRAVEL (%)	SAND (%)	SILT (%)	SILT (%) CLAY (%) D (cmm)		<u>G</u>	CLASSIFICATION	
0.92 ∑	Uı	7	- 0.60 - 1.00						29.0	0	9	91	0.015	32	6	ML	Grey, medium compressible silt with trace sand (firm)
-	SPT1		1.50	<i></i>					29.5	0	25	75	0.042	NΡ	=	ML	Grey, non plastic silt with some fine sand (firm)
	SP12	1	2.50 3.00 3.50		4												Grey, medium compressible sit with trace sand (firm)
	SPT3		4.00 4.50 5.00		6	-			31.4	0	43	57	0.067	NP	-	ML	Grey, sitt and fine sand (firm)
	SPT4		6.00		17						:						Grey, line sand with trace sitt (koose)
	SP15		7.60 7.60	1		2	2		18.5	0	88	12	0.18	NP	-	SP-SM	
	SPY6		9.00 9.50			18											Grey, fine sand with little silt (med. dense)
	SP17		- 10.00 - 10.50 - 11.00	!! ! 			25		21.5	0	85	15	0.16	NP	-	SM	
	SPTe	I	- 11.50 - 12.00 - 12.50				<u> </u> 										
	SPID		- 13.00 13.50 14.00			20			21.4	0	84	16	0.12	NP	-	SM	
	SPT		- 14.50 - 15.00 - 15.50 - 16.00			\	28										Light grey, line sand with little six (med. dense to dense)
	\$PT11		- 16.50 - 17.00				35	3	21.9	0	83	17	0.17	NΡ	•	SM	
	SPT12		- 17.50 - 18.00 - 18.50				32										
	SPT13		- 19.00 - 19.50 - 20.00				36		22.8	0	88	12	0.13	NP	-	SP-SM	
Ι.				ł													

DISTURBED SAMPLING (SPT) UNDISTURBED SAMPLING	BORING B13 ELEVATION 23.00 m	Figure A.1-16	LOG OF CORE BORING, BOREHOLE B13

GROUNDWATER LEVEL	SAMPLING NO. AND	E E	ОЕРТН (т)	PROFILE	N VALUE			MONSTURE CONTENT (%)	***************************************	GRA	ADATIO	N	PLASTICITY NO.		CATION	DESCRIPTION			
GROUNDA	SAMPUN	-	DEPT	PRO	1				50		MOISTURE	GPAVEL (%)	SAND (%)	SILT (%)	D æ (mm)	LL (%)	G.	CLASSIFICATION	DESCRIPTION
	SPTI		0.50		5	}					33,6	0	9	91	0.024	38	10	ML	Light brown and gray, non plastic sift Light brown, medium compressible sift with trace cand (firm)
2.40 <u>V</u>	SPT2	Ι	1.50		4	 													Light brown, non plastic silt and tine sand (firm)
	SPI3	I	2.50 3.00 3.50	/		 6 					27.5	0	73	27	0.10	NP	-	SM	Light brown, fine sand with some silt (loose)
	SPT4		4.00			10 7					30.6	o	8	92	0.022	33	7	ML.	
	SPT6		5.00	7		 6											-		Grey, medium compressible silt with trace fine sand (firm)
	SP17	I	7.00			8					32.0	0	6	94	0.018	NP	-	ML	
	SPTa		7.50 8.00 8.50			1	16				55.0				0.004			214	Grey, fine sand and sit
	SPT9		9.00				18 20				25.9	0	61	39	0.084	NP	•	SM	(med. dense)
			10.50								·								
			11.50					:											
			13.00	:														:	
			14.00			X													
			15.00 15.50 16.00		٠.														
			16.50																
			17.50																,
			19.00																
			20.00							:					<u> </u>				

A to see the see			,
DISTURBED SAMPLING (SPT) UNDISTURBED SAMPLING	BORING B15 ELEVATION 22.50 m	Figure A.1-17	LOG OF CORE BORING, BOREHOLE B15

GROUNDWATER LEVEL	SAMPLING NO, AND		ОЕРТН (m)	PROFILE	n value		MOISTURE CONTENT (%)	GRADATION			PLASTICITY		CLASSIFICATION	DESCRIPTION					
GPOUNDM	SAMPLIN		DEPT	PRO	t		o 34		0 54	0	MOISTUFE	GRAVEL (%)	SAND (%)	SILT (%)	O = (mm)	(%) TI	<u>Q.</u>	CLASSIF	
	********	, i	- 0.50																Light brown, non plastic silt with little line sand
	\$PT1		- 1.00 - 1.50			.					22.9	0	16	84	0.036	NP	•	ML	Light brown,silt with little fine sand (firm)
	SP12 SP15		- 2.00 - 2.50 - 3.00 - 3.50		3				-		32.8	0	9	91	0.023	36	8	ML	Light brown and grey, medium compressible siit with trace sand (soft to firm)
*.	\$P14 \$P15		- 4.00 - 4.50 - 5.00		3			7			26.4	0	11	89	0.032	NP	-	ML	Grey, non plastic silt with little fine sand (soft)
	SPT6 SPT7		- 6.50 - 6.00 - 6.50 - 7.00		2		16				27.3	o	18	82	0.047	NP	-	ML	
	SPT8		7,50 - 8.00 - 8.50					5					76	24	0.10	NP		SM	Grey, fine sand with some silt (med. dense)
	SP T9 SP T10		- 9.00 - 9.50 - 10.00	li .			21	3 			29.9	O	/6	24	0.10	, INF	_	JWI	
			- 10.60																
			- 11.00 - 11.50		1.1														
			12.00 - 12.50																
			14.00 - 14.50														-		
			15.00 15.50																
			16.00 16.60																
			17.00 17.50																
			18.00 18.50 19.00															***************************************	
			19.00 - 19.50 - 20.00														2		

DISTURBED SAMPLING (SPT)	BORING B17	Figure A.1-18
UNDISTURBED	ELEVATION 26.40 m	LOG OF CORE BORING, BOREHOLE B17
LI SAMPLING		

GROUNDWATER LEVEL	SAMPLING NO. AND	- L	DEPTH (m)	PROFILE	MOISTURE CONTENT (%)	·	GR.	ADATIO		PLAST	CITY	CATION	DESCRIPTION
GROUND	SAMPU	-	DEP	PRC	MOISTURE	GRAVEL (%)	SAND (%)	SILT (%) CLAY (%)	D , (mm)	הר (22)	<u>a</u>	CLASSIFICATION	BEGOTHI HON
A	ugei	Hole	e No.	A1		Eleva	ation	ng Cardan ang Malakakahan ang sang sang sang sang sang sang san					
0.54 又	D-1		0.50 1.00 1.50		26.1	0	90	10	0.13	NP	-	SP-SM	Light grey, fine sand with trace silt
	D-3		2.00 2.50 3.00		27.4	О	62	38	0.091	NP	-	SM	Grey, silt and fine sand
	D4		3.50 4.00 4.50		e.								Light grey, fine sand with little six
	D-5	11.	5.00		27.8	0	82	18	0.12	ΝP		SM	
A	uger	Hole	∍ No.	A2		Eleva	ation	27.50 m				L	
0.92 	D-1	I I	0.50 1.00		25.3	0	4	96	0.021	35	8	ML	Light grey, medium compressible sift with trace sand
	D-2		1.50 2.00 2.50				·		:				Yellowish brown, fine sand and silt
	33 4	<u> </u>	3.00 3.50		25.3	O	48	52	0,072	NP	-	ML	Light grey, silt and fine sand
	D-5		4.00 4.50 5.00	/	28.2	0	90	10	0.18	NP	-	SP-SM	Light grey, fine sand with trace sit
Ai	uger	Hole	∍ No.	A3		Eleva	ition	25.70 m			:		
	D-1		0.50 1.00		32.9	0	35	65	0.059	NP	_	ML	Light brown, sat and fine send
1.90 ¥	D-2		1.50 2.00 2.50										Agent a vivir, var and line aging
	D-3		3.00 3.50		31.9	0	31	69	0.050	NP	-	ML	Grey, fine sand with some silt
 F.,	D-5		4.00 4.50 5.00		26.0	0	65	35	0.093	NP	-	SM	
		Ė.											

DISTURBED Figure A.1-19
LOG OF AUGER BORING, BOREHOLES A1, A2 AND A3

GPOUNDWATER LEVEL	SAMPUNG NO. AND TYPE DEPTH (m)		Ê][E	MOISTURE CONTENT (%)		GR	OITADA	٧	PLAST	KITY	CATION	DESCRIPTION
GPOUNDW	SAMPUIN		DEPT	PROFILE	MOISTURE	GRAVEL (%)	SAND (%)	SILT (%) CLAY (%)	D (mm)	(%)	ō.	CLASSIFICATION	DEGOTAL FIOR
Auger Hole No. A4							ation	22.40 m					
	D-1	I	0.50 1.00		30.0	0	19	81	0.037	NP	•	ML	Light brown and grey, non plastic silt with little fine sand
2.20 ∑	D-2		1.50 2.00 2.50										Light grey, fine sand with trace silt and mica
	D-3		3.00 3.50		26.6	0	49	51	0.071	NP ·		ML	Light grey, silt and fine sand
	D-5		4.00 4.50 5.00		33.0	. 0	58	42	0.086	NP		SM	
		E	. 0.00					-		,			
1	vugei	Но	le No.	A5		Elev	ation	20.50 m			: 		
	T	E	0.50	1									Light brown, non plastic silt with trace sand
	D-1		1.00 1.50	h	28.8	0	2	98	0.023	.36	8	ML	Light brown and grey, medium compressible silt with trace sand
2.92 ¥	D-3		2.50 2.50	100	27.5	0	25	75	0.052	NP	-	ML	Light brown, non plastic sill with some fine sand
	D-4	I	3.50 4.00	1									Grey, medium compressible sitt with trace sand
	D-5		- 4.50 - 5.00	(/	34.3	0	2	. 98	0.020	37	9	ML	
L		LE			L <u>. </u>	<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	<u></u>
1	\uge	r Ho	le No	A6		Elev	ation	22.40 m	l	·			
	D-1	I	0.50	200,000,000	17.8	o	58	42	0.084	NP	-	SM	Light brown, non plastic silt and fine sand
	D-2		- 1.50 - 2.00										Yellowish brown, tine sand with some silt
2.7 坚	2 D-3		- 2.50 - 3.00	4,000	16.4	C	78	22	0.12	NP	-	SM	
	D-4		- 3.50 - 4.00					-					Grey, non plastic silt and line sand
	D-5		- 4.50 - 5.00		18.3	C	37	63	0.054	NP	-	ML	
_	<u>L</u> .	LĒ		<u></u>	<u> </u>	L		<u> </u>		<u> </u>	<u> </u>	J	

DISTURBED Figure A.1-20
LOG OF AUGER BORING, BOREHOLES.A4, A5 AND A6

SPOUNDWATER LEVEL	SAMPLING NO. AND TYPE DEPTH (m)		PROFILE	MOISTURE CONTENT (%)		GR	ADATIO	V	PLAST	ICITY	CATION	DESCRIPTION	
WOWNCHS	SAULPUN T	DEPT	P.R.O.	MOISTURE	GRAVEL (%)	SAND (%)	SILT (%)	D & (mm)	£ 3	<u>G</u>	CLASSIFICATION		
A	uger l	Hole No.	A7		Eleva	ition :							
	0-1	0.50		23.9	0	38	62	0.060	NP	•	ML	Light brown, non plastic silt and fine sand	
2.35 <u>V</u>	D-2 D-3	1.50 2.00 2.50		24.0	2		00	0.000	ne			Light brown, non plastic silt with little fine sand Light brown and grey.	
	3 3	3.00		34.2	0	2	98	0.022	36	8	ML	medium compressible sit with trace sand	
·.	0-5	4.50 5.00		24.3	0	50	50	0.074	NP	-	SM/ML	Grey, silt and line sand	
		<u> </u>					25.40						
Auger Hole No. A8 Elevation 25.40 m													
	0-1	0.50		15.7	0	50	50	0.074	NP	•	SM/ML	Light brown, silt and fine sand Light brown and grey,	
2.85	D-2	2.50										fine sand and sit	
2.85	63 64	3.00		24.7	0	33	67	0,053	NP	•	ML	Grey, sift with some fine sand	
	0-5	4.00 4.50 5.00		28.2	0	40	60	0.061	NP	-	ML		
		<u> </u>					·,······						
A	uger	Hole No.	A9		Eleva	ation	25.20 m						
	D-1	0.50		14.9	0	38	62	0.059	NP	-	ML	Light brown,	
3.00	0-2	1.50 2.00 2.50										non plastic sift and line sand	
2.82	0-3	3.50		16.9	0	73	27	0,10	ŅΡ	-	SM	Yellowish brown, fine sand with some six	
	0-4	4.50		36.2	0	2	98	0.022	39	9	ML	Grey, medium compressible silt with trace fine sand	
		5.00		: -				10					

DISTURBED Figure A.1-21 LOG OF AUGER BORING, BOREHOLES A7, A8 AND A9

GROUNDWATER LEVEL	SAMPLING NO. AND	ОЕРТН (m)	PROFILE	MOISTURE CONTENT (%)		GR	ADATIC	N .	PLAST	riciny	CATION	DESCRIPTION	
GROUND	SAMPU	OEP	ğ	MOISTURE	GRAVEL (%)	SAND (%)	SILT (%) CLAY (%)	D (mm)	LL (%)	<u>a</u>	CLASSIFICATION		
A	uger	Hole No	. A10		Eleva	ation	28.00 m	ì			٠.		
	D-1	0.54 1.00		28.2	0	7	93	0.019	NP	-	ML	Light brown and grey, non plastic silt with little fine sand	
2.43 \ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	D-2	1.50 2.00 2.50										Light brown, medium compressible silt with trace sand	
	0-3	3.00 3.50 4.00	,	23.9	0	9	91	0.022	35	7	ML	Light groy,	
	D-5	4.50	.// /	23.7	0	12	88	0.033	NP	-	ML	non plastic silt with little fine sand	
A	ıger l	E Hole No	ــــــــــــــــــــــــــــــــــــــ	Ll	Eleva	ation	m	<u> </u>			- 1		
		0.50 1.00 1.50 2.00 2.50 3.50 4.50 5.00											
Au	ger I	lole No.			Eleva	tion	m						
		1.50 2.50 3.50 4.50 4.50											

DISTURBED Figure A.1-22
LOG OF AUGER BORING, BOREHOLE A10

ATTACHMENT-2: RESULT OF LABORATORY TEST FOR SOIL SAMPLES COLLECTED BY CORE BORING

List of Figures

Fig. No.	Title
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A.2-5	Results of Laboratory Tests for Soil Samples of Borehole B4
A.2-6	Results of Laboratory Tests for Soil Samples of Borehole B5
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A.2-17	Results of Laboratory Tests for Soil Samples of Borehole B17
A.2-18	Summary of All Data
A.2-19	Summary of Foundation Data
	·

Table A.2-1 RESULTS OF LABORATORY TESTS (B1)

Sample N	lo.	# ##C+-G+###### 12-00-41-43-4	D1	D3	D5-	D7	D9
Depth			0.54 to 1.00	2.54 to 3.00	4.54 to 5.00	6.54 to 7.00	8.54 to 9.00
Specific gravity	Gs		2.667	2.670	2.656	2.668	2.656
	Gravel	(%)	0	0	0	0	0
Gradation	Sand	(%)	28	15	90	18	93
	Fine	(%)	72	85	10	82	7
Mean particle size	D50	(mm)	0.055	0.036	0.16	0.042	0.19
Liquid limit	LL	(%)	NP	NP	NP	NP .	NP
Plasticity index	PI		-	-	-	-	
Unified soil classif	ication		ML	ML	SP-SM	ML	SP-SM
Natural moisture c	ontent	(%)	17.9	25.0	23.2	25.1	23.9

Table A.2-2 RESULTS OF LABORATORY TESTS (B2)

Sample N	lo.		D1	D2	D3	D5	D7	D9
Depth			0.54	1.54	2.54	4.54	6.54	8.54
		-	to	to	to	to .	to	to
			1.00	2.00	3.00	5.00	7.00	9.00
Specific gravity	Gs		2.658		2.664	2.660	2.667	2.670
	Gravel	(%)	0		0	0	0	Ó
Gradation	Sand	(%)	85		28	53	23	10
. 	Fine	(%)	15		72	47	77	90
Mean particle size	D50	(mm)	0.14		0.055	0.079	0.044	0.024
Liquid limit	LL	(%)	NP	36	NP	NP	NP	NP
Plasticity index	PI		-	10	-	•	-	•
Unified soil classif	ication		SM		ML.	SM	ML	ML
Natural moisture c		(%)	6.4		22.1	19.3	19.8	28.7

Table A.2-3 RESULTS OF LABORATORY TESTS (B3)

Sample N	lo.		D1	D3	D5	D7	D9	D11	D13
Depth			1.04 to 1.50	4.04 to 4.50	7.04 to 7.50	10.04 to 10.50	13.04 to 13.50	16.04 to 16.50	19.54 to 20.00
Specific gravity	Gs		2.666	2.657	2.658	2.655	2.657	2.650	2.656
	Gravel	(%)	0	0	0	0	0	0	0
Gradation	Sand	(%)	22	89	85	91	90	91	92
	Fine	(%)	78	11	15	9	10	9	8
Mean particle size	D50	(mm)	0.047	0.12	0.16	0.18	0.13	0.16	0.17
Liquid limit	LL	(%)	NP	NP	NP	NP	NP	NP	NP
Plasticity index	PI		*	-	-	-	-	-	•
Unified soil classif	ication		ML	SP-SM	SM	SP-SM	SP-SM	SP-SM	SP-SM
Natural moisture c	ontent	(%)	23.5	29.0	25.4	19.0	21.5	23.9	25.4

Table A.2-4 RESULTS OF LABORATORY TESTS (B3')

Sample N	o.		D1	D3	D5	D7	D9	D11	D13
Depth			1.04	4.04	7.04	10.04	13.04	16.04	19.54
			to	to	to	to	to	to	to 20.00
			1.50	4.50	7.50	10.50	13.50	16.50	
Specific gravity	Gs		2.600	2.669	2.659	2.655	2.654	2.655	2.653
	Gravel	(%)	0	0	0	0	0	0	0
Gradation	Sand	(%)	56	9	87	97	95	96	95
	Fine	(%)	44	91	13	3	5	4	5
Mean particle size	D50	(mm)	0.082	0.031	0.15	0.18	0.15	0.13	0.19
Liquid limit	LL	(%)	NP						
Plasticity index	PI		-		- '	-	• -	-	-
Unified soil classif	ication	٠	SM	ML	SM	SP.	SP-SM	SP	SP-SM
Natural moisture c	1.0	(%)	24.2	16.0	35.0	24.4	23.6	25.2	25.2

Table A.2-5 RESULTS OF LABORATORY TESTS (B4)

Sample N	lo.	<u> </u>	D1	D3	D5	D7	D9	D11	D13
Depth			1.04 to 1.50	4.04 to 4.50	7.04 to 7.50	10.04 to 10.50	13.04 to 13.50	16.04 to 16.50	19.54 to 20.00
Specific gravity	Gs		2.673	2.662	2.659	2.657	2.655	2.656	2.654
	Gravel	(%)	0	0	0	0	0	0	0
Gradation	Sand	(%)	8	47	85	90	95	94	97
	Fine	(%)	92	53	15	10	5	6	3
Mean particle size	D50	(mm)	0.024	0.071	0.15	0.18	0.19	0.13	0.17
	LL	(%)	42	NP	NP	NP	NP	NP	NP
Plasticity index	ΡΙ		13		. • . -	-	-	-	- :
Unified soil classif	ication		ML	ML	SM	SP-SM	SP-SM	SP-SM	SP
Natural moisture c	ontent	(%)	39.0	28.9	26.4	22.0	29.6	28.9	27.7

Table A.2-6 RESULTS OF LABORATORY TESTS (B5)

Sample N	o.		D1	D3 -	D5	D7	D9
Depth			0.54	2.54	4.54	6.54	8,54 to
			to 1.00	to 3.00	to 5.00	to 7.00	9.00
Specific gravity	Gs		2.668	2.657	2.659	2.667	2,666
	Gravel	(%)	0	0	0	0	0
Gradation	Sand	(%)	32	90	89	37	30
Oracanion.	Fine	(%)	68	10	11	63	70
Mean particle size	A CONTRACTOR OF THE	(mm)	0.054	0.16	0.18	0.059	0.048
Liquid limit	LL	(%)	NP	NP	NP	NP	NP
Plasticity index	PΙ		.=	-	-	-	•
Unified soil classif	ication		ML	SP-SM	SP-SM	ML	ML
Natural moisture c		(%)	17.8	6.9	5.2	24.8	24.3

Table A.2-7 RESULTS OF LABORATORY TESTS (B6)

Sample N	Sample No.		D1	D3	D5	D7	D9	D11	D13
Depth			1.04 to 1.50	4.04 to 4.50	7.04 to 7.50	10.04 to 10.50	13.04 to 13.50	16.04 to 16.50	19.54 to 20.00
Specific gravity	Gs		2.668	2.665	2.672	2.668	2.669	2.658	2.656
	Gravel	(%)	0	Ö	0	0	0	0	0
Gradation	Sand	(%)	15	23	10	13	13	92	97
	Fine	(%)	85	77	90	87	87	8	3
Mean particle size	D50	(mm)	0.049	0.058	0.034	0.038	0.037	0.13	0.18
Liquid limit	LL	(%)	NP	NP	34	NP	NP	NP	NP
Plasticity index	ΡI		-	-	.7	-	-	-	-
Unified soil classif	ication		ML	ML	ML	ML	ML	SP-SM	SP
Natural moisture c	ontent	(%)	16.6	20.7	31.1	32.6	33.8	25.0	22.9

Table A.2-8 RESULTS OF LABORATORY TESTS (B6')

Sample N	<u> </u>	· · · · · · · · · · · · · · · · · · ·	D1	D3	D5	D7	D9	D11	D13
Depth			1.04	4.04	7.04	10.04	13.04	16.04	19.54
Dopus			to	to	to 7.50	to 10,50	to 13.50	to 16.50	to 20.00
			1.50	4.50					
Specific gravity	Gs		2.663	2.660	2.657	2.650	2.650	2.656	2.654
	Gravel	(%)	0	0	0	0	0	0	0
Gradation	Sand	(%)	42	67	83	98	99	91	93
Cruduizon.	Fine	(%)	58	33	17	2	. 1	9 .	7
Mean particle size		(mm)	0.065	0.094	0.16	0.19	0.20	0.15	0.18
	LL	(%)	NP	NP	NP	NP	NP	NP	NP
zaiquia i	PI		-	-	-	<u>-</u>	-	-	
Unified soil classifi	ication		ML	SM	SM	SP	SP	SP-SM	SP-SM
Natural moisture co		(%)	12.0	12.5	19.0	25.8	22.5	25.2	24.6

Table A.2-9 RESULTS OF LABORATORY TESTS (B7)

Sample N	o.		Dl	D3	D5	D7	D9
Depth			0.54 to 1.00	2.54 to 3.00	4.54 to 5.00	6.54 to 7.00	8.54 to 9.00
Specific gravity	Gs		2.666	2,662	2.657	2.658	2.657
	Gravel	(%)	0	0	0	0	0
Gradation	Sand	(%)	26	64	84	85	92
	Fine	(%)	74	36	16	15	8
Mean particle size	D50	(mm)	0.054	0.089	0.16	0.13	0.20
Liquid limit	LL	(%)	NP	NP	NP	NP	NP
Plasticity index	PΙ		-	-	-	-	•
Unified soil classif	ication		ML	SM	SM	SM	SP-SM
Natural moisture c	ontent	(%)	28.7	27.0	30.3	19.3	12.9

Table A.2-10 RESULTS OF LABORATORY TESTS (B8)

Sample N	O.		D1	D3	D5	D7	D9
Depth			0.54 to 1.00	2.54 to 3.00	4.54 to 5.00	6.54 to 7.00	8.54 to 9.00
Specific gravity	Gs		2.674	2.673	2.668	2.672	2.668
	Gravel	(%)	0	0	. 0	0	0
Gradation	Sand	(%)	5	6	22	2	9
Oradanon.	Fine	(%)	95	94	78	98	91
Mean particle size	•	(mm)	0.020	0.022	0.045	0.018	0.026
Liquid limit	LL	(%)	43	36	NP	37	NP
in the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	PI	(1-)	13	9		11	-
Unified soil classif			ML	ML	ML	ML	ML
Natural moisture c	4 2	(%)	41.7	34.4	25.6	32.9	25.1

Table A.2-11 RESULTS OF LABORATORY TESTS (B9)

Sample N	o.		D1	D3	D5	D7	D9
Depth			0.54	2.54	4.54	6.54	8.54
.			to	to 3.00	to 5.00	to 7.00	to 9.00
	.,		1.00				
Specific gravity	Gs .		2.660	2.658	2.663	2.658	2.656
	Gravel	(%)	0	0	0	0	0
Gradation	Sand	(%)	52	75	62	86	92
	Fine	(%)	48	25	38	14	8
Mean particle size		(mm)	0.077	0.10	0.087	0.13	0.18
Liquid limit	LL	(%)	NP	NP	NP	NP	NP
Plasticity index	ΡΙ		-	-	-	-	•
Unified soil classif	ication		SM	SM	SM	SM	SP-SM
Natural moisture content (%)		14.5	8.1	18.1	22.6	15.6	

Table A.2-12 RESULTS OF LABORATORY TESTS (B10)

Sample N	n		Di	D3	D5	D7	D9
Depth	.		0.54 to 1.00	2.54 to 3.00_	4.54 to 5.00	6.54 to 7.00	8.54 to 9.00
Specific gravity	Gs		2,668	2.669	2.657	2.654	2.653
Spoots gam y	Gravel	(%)	0	0	0	0	0
Gradation	Sand	(%)	36	27	84	95	94
Oracianon	Fine	(%)	64	73	16	5	6
Mean particle size		(mm)	0.060	0.051	0.14	0.20	0.19
Liquid limit	LL	(%)	NP	NP	NP	NP	NP
-	PI		-	-	•	-	-
Unified soil classif	ication		ML	ML	SM	SP-SM	SP-SM
Natural moisture c		(%)	21.7	29.4	23.3	24.4	26.1

Table A.2-13 RESULTS OF LABORATORY TESTS (B11)

4.3							
Sample N	Sample No.			D3	D5	D7	D9
Depth		0.54 2.5	2.54	4.54	6.54	8.54	
			to	to	to	to	to
			1.00	3.00	5.00	7.00	9.00
Specific gravity	Gs		2.660	2.665	2.667	2.659	2.653
	Gravel	(%)	0	0	0	0	0
Gradation	Sand	(%)	56	39	33	87	96
	Fine	(%)	44	61	67	13	4
Mean particle size	D50	(mm)	0.083	0.06	0.054	0.18	0.14
Liquid limit	LL	(%)	NP	NP	NP	NP	NP
Plasticity index	PI		-	• -	-	-	-
Unified soil classification		SM	ML	ML	SM	SP	
Natural moisture content (%)		12.5	25.6	23.8	25.2	29.0	

Table A.2-14 RESULTS OF LABORATORY TESTS (B12)

Sample N	O.		D1	D3	D5	D7	D9	D11	D13
Depth			1.04 to 1.50	4.04 to 4.50	7.04 to 7.50	10.04 to 10.50	13.04 to 13.50	16.04 to 16.50	19.54 to 20.00
Specific gravity	Gs		2.678	2.663	2.657	2.659	2.650	2.668	2.652
	Gravel	(%)	0	0	0	0	0	0	0
Gradation	Sand	(%)	10	72	90	83	99	20	97
O'Induito!!	Fine	(%)	90	28	10	17	1	80	3
Mean particle size		(mm)	0.026	0.10	0.19	0.15	0.20	0.047	0.17
Liquid limit	LL	(%)	49	NP	NP	NP	NP	NP	NP
Plasticity index	PI	·	19	· <u>-</u>	- ·	-			-
Unified soil classif	ication		ML	SM	SP-SM	SM	SP	ML	SP
Natural moisture c		(%)	46.4	28.9	19.7	22.9	23.0	24.3	21.3

Table A.2-15 RESULTS OF LABORATORY TESTS (B13)

Sample N	lo.		D1	D3	D5	D7	D9	D11	D13
Depth			1.04 to	4.04 to	7.04 to	10.04 to	13.04 to	16.04 to	19.54 to
			1.50	4.50	7.50	10.50	13.50	16.50	20.00
Specific gravity	Gs		2.672	2.663	2.658	2.656	2.654	2.656	2.655
	Gravel	(%)	0	0	0	0	0	0	0
Gradation	Sand	(%)	25	43	88	85	84	83	88
	Fine	(%)	75	57	12	15	16	17	12
Mean particle size	D50	(mm)	0.042	0.067	0.18	0.16	0.12	0.17	0.13
Liquid limit	LL	(%)	NP	NP	NP	NP	NP	NP	NP
Plasticity index	PI		-	-	-	-	_	-	-
Unified soil classif	ication		ML	ML	SP-SM	SM	SM	SM	SP-SM
Natural moisture co	ontent	(%)	29.5	31.4	18.5	21.5	21.4	21.9	22.8

Table A.2-16 RESULTS OF LABORATORY TESTS (B15)

Sample N	lo.		D1	D3	D5	D7	D9
Depth			0.54	2.54	4.54	6.54	8.54
· · .			to 1.00	to 3.00	to 5.00	to 7.00	to 9.00
Specific gravity	Gs		2.672	2.660	2.673	2.674	2.660
	Gravel	(%)	0	0	0	0	0
Gradation	Sand	(%)	. 9	73	8	- 6	61
	Fine	(%)	91	27	92	94	39
Mean particle size	D50	(mm)	0.024	0.10	0.022	0.018	0.084
Liquid limit	LL	(%)	38	NP	NP	NP	NP
	PI		10		-	.	-
Unified soil classif	ication		ML	SM	ML	ML	SM
Natural moisture co	ontent	(%)	33.6	27.5	30.6	32.0	25.9

Table A.2-17 RESULTS OF LABORATORY TESTS (B17)

Sample N	o.		D1	D3	D5	D7	D9
Depth			1.04 to 1.50	4.04 to 4.50	7.04 to 7.50	10.04 to 10.50	13.04 to 13.50
Specific gravity	Gs		2.666	2.673	2.668	2.665	2.661
	Gravel	(%)	0	0	0.	0	0
Gradation	Sand	(%)	16	9	11	18	76
<i>*</i>	Fine	(%)	84	91	89	82	24
Mean particle size	D50	(mm)	0.036	0.023	0.032	0.047	0.10
Liquid limit	LL	(%)	NP	36	NP	NP	NP
Plasticity index	PI	. ,	. ·	8		-	-
Unified soil classif	ication		ML	ML	ML	ML	SM
Natural moisture c	ontent	(%)	22.9	32.8	26.4	27,3	29.9

Table A.2-18 SUMMARY OF ALL DATA

Sample No.		No.	Min.	Max.	Average	
Specific gravity	Gs		99	2.600	2.678	2.661
	Gravel	(%)	99	0	0	0.
Gradation	Sand	(%)	99	2	99	59
	Fine	(%)	99	1	98	41
Mean particle size	D50	(mm)	99	0.018	0.2	0.105
Liquid limit	LL	(%)	9	34	49	39
Plasticity index	ΡΙ		9	7	19	11
Natural moisture content (%)		99	5.2	46.4	24.2	

Table A.2-19 SUMMARY OF FOUNDATION DATA

Sample No.			No.	Min.	Max.	Average
Specific gravity	Gs		82	2.650	2.678	2.661
	Gravel	(%)	82	0	0	0
Gradation	Sand	(%)	82	2	99	63
	Fine	(%)	82	1	98	37
Mean particle size	D50	(mm)	82	0.018	0,2	0.112
Liquid limit	LL	(%)	5	36	49	40
	PI		5	8	19	12
Natural moisture c	ontent	(%)	82	5.2	46.4	24.6

ATTACHMENT-3: MOHR'S CIRCLES AND DIRECT SHEAR TEST RESULTS FOR UNDISTURBED SOIL SAMPLES COLLECTED BY CORE BORING

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A.3-1	Mohr's Circles of Undisturbed Samples of Borehole (B4)
A.3-2	Mohr's Circles of Undisturbed Samples of Borehole (B9)
A.3-3	Mohr's Circles of Undisturbed Samples of Borehole (B11)
A.3-4	Mohr's Circles of Undisturbed Samples of Borehole (B12)
A.3-5	Mohr's Circles of Undisturbed Samples of Borehole (B13)
A.3-6	Direct Shear Test Results of Undisturbed Samples (B4)
A.3-7	Direct Shear Test Results of Undisturbed Samples (B9)
A.3-8	Direct Shear Test Results of Undisturbed Samples (B11)
A.3-9	Direct Shear Test Results of Undisturbed Samples (B12)
A.3-10	Direct Shear Test Results of Undisturbed Samples (B13)

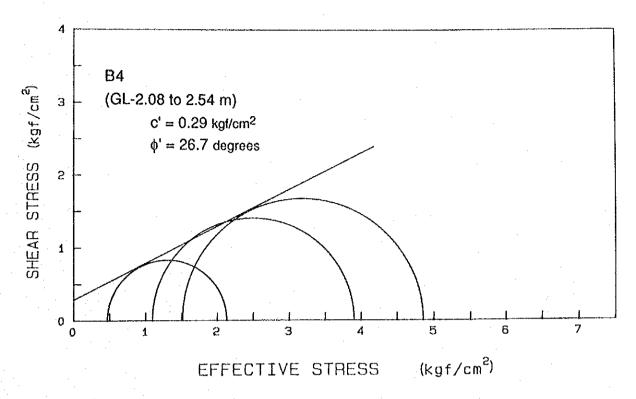


Figure A.3-1 MOHR'S CIRCLES OF UNDISTURBED SAMPLES OF BOREHOLE (B4)

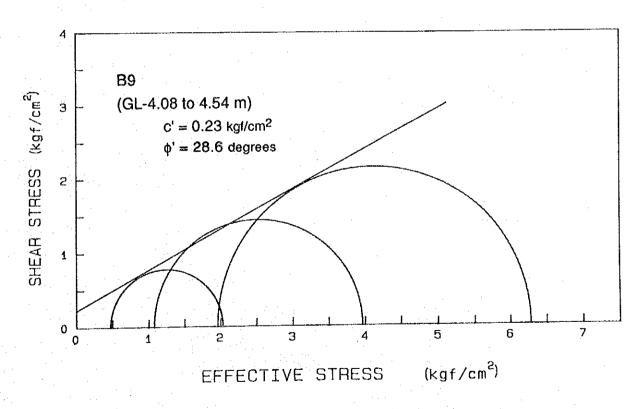


Figure A.3-2 MOHR'S CIRCLES OF UNDISTURBED SAMPLES OF BOREHOLE (B9)

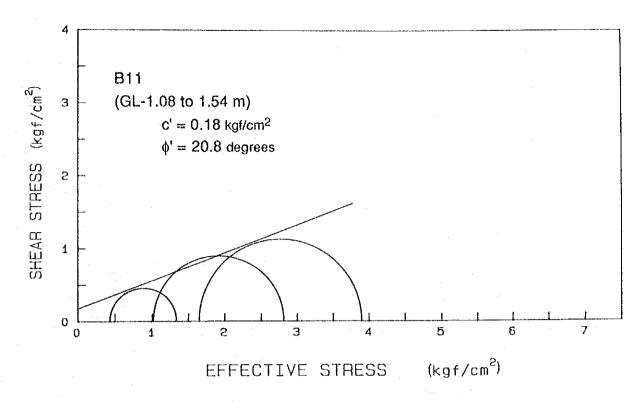


Figure A.3-3 MOHR'S CIRCLES OF UNDISTURBED SAMPLES OF BOREHOLE (B11)

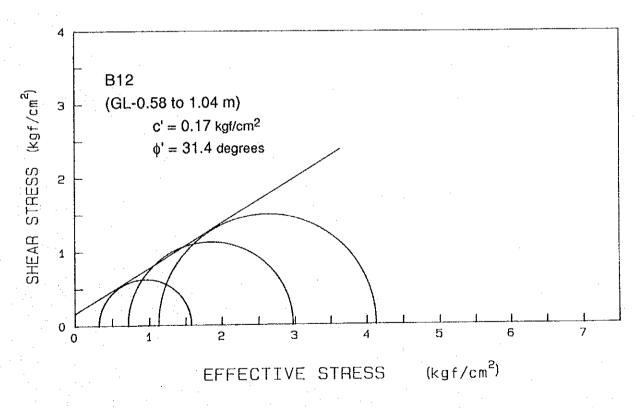


Figure A.3-4 MOHR'S CIRCLES OF UNDISTURBED SAMPLES OF BOREHOLE (B12)

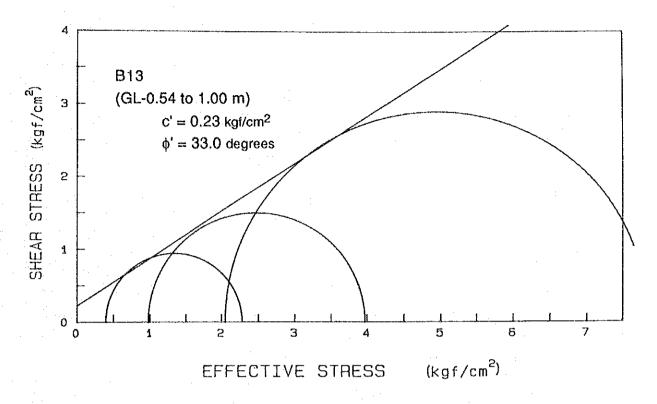


Figure A.3-5 MOHR'S CIRCLES OF UNDISTURBED SAMPLES OF BOREHOLE (B13)

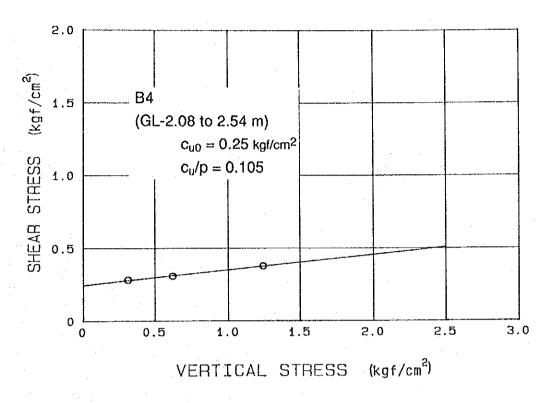


Figure A.3-6 DIRECT SHEAR TEST RESULTS OF UNDISTURBED SAMPLES (B4)

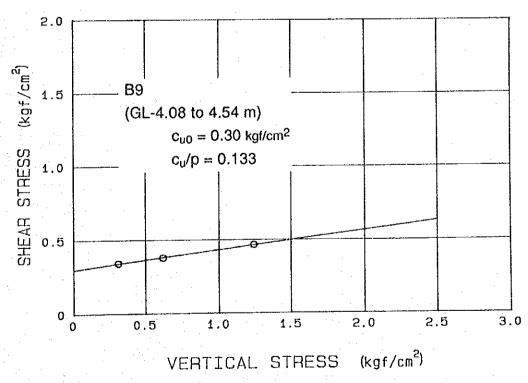


Figure A.3-7 DIRECT SHEAR TEST RESULTS OF UNDISTURBED SAMPLES (B9)

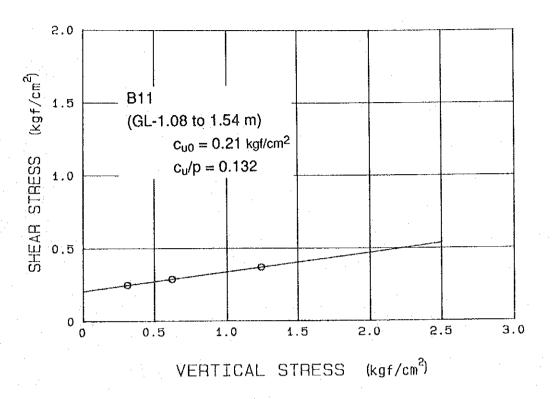


Figure A.3-8 DIRECT SHEAR TEST RESULTS OF UNDISTURBED SAMPLES (B11)

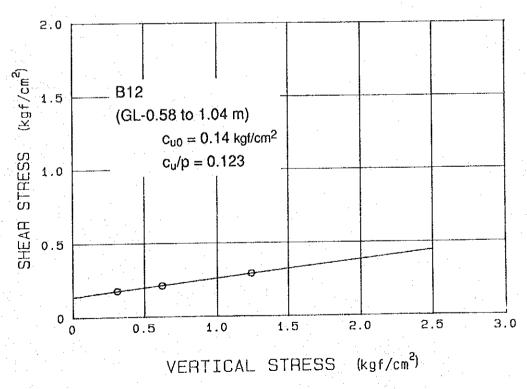


Figure A.3-9 DIRECT SHEAR TEST RESULTS OF UNDISTURBED SAMPLES (B12)

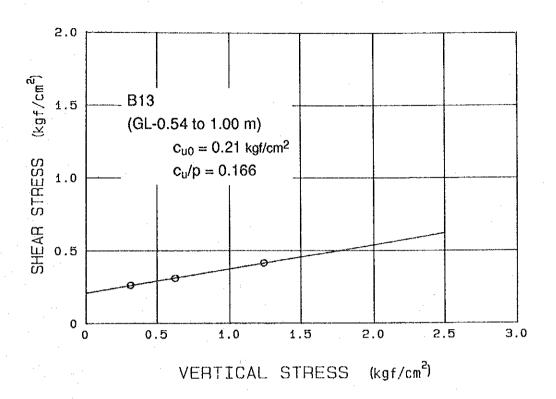


Figure A.3-10 DIRECT SHEAR TEST RESULTS OF UNDISTURBED SAMPLES (B13)

ATTACHMENT-4: MOHR'S CIRCLES AND DIRECT SHEAR TEST RESULTS FOR REMOLDED SOIL SAMPLES COLLECTED BY TEST PITTING

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A.4-4	Mohr's Circles of Materials of Test Pit (T5)
A,4-5	Mohr's Circles of Materials of Test Pit (T6)
A.4-6	Mohr's Circles of Materials of Test Pit (T7)
A.4-7	Direct Shear Test Results (T1)
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A.4-11	Direct Shear Test Results (T5)
A.4-12	Direct Shear Test Results (T6)
A.4-13	Direct Shear Test Results (T7)

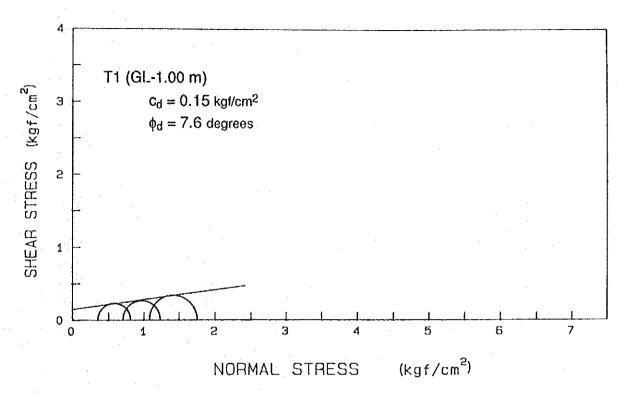


Figure A.4-1 MOHR'S CIRCLES OF MATERIALS OF TEST PIT (T1)

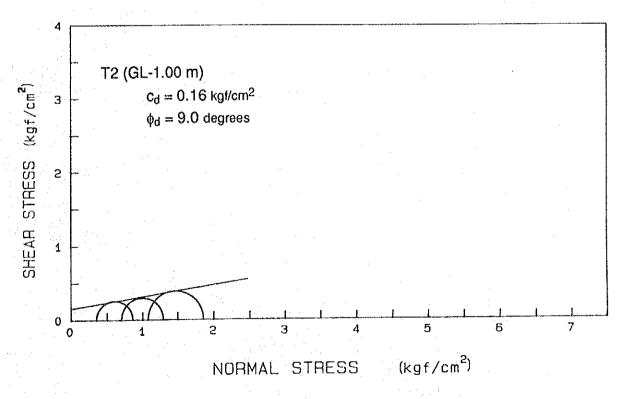


Figure A.4-2 MOHR'S CIRCLES OF MATERIALS OF TEST PIT (T2)

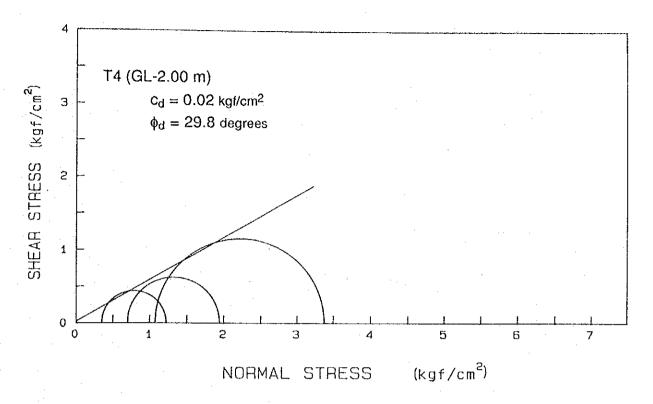


Figure A.4-3 MOHR'S CIRCLES OF MATERIALS OF TEST PIT (T4)

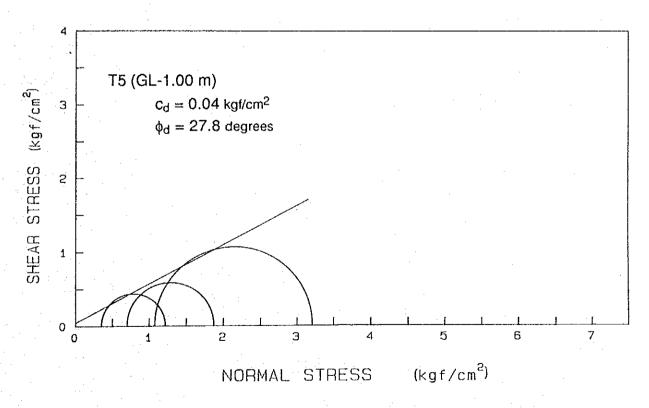


Figure A.4-4 MOHR'S CIRCLES OF MATERIALS OF TEST PIT (T5)

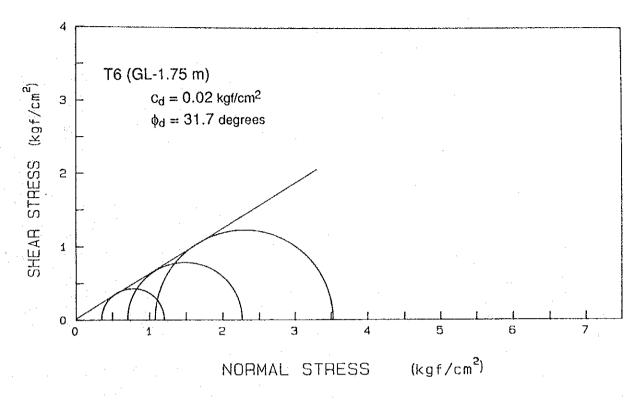


Figure A.4-5 MOHR'S CIRCLES OF MATERIALS OF TEST PIT (T6)

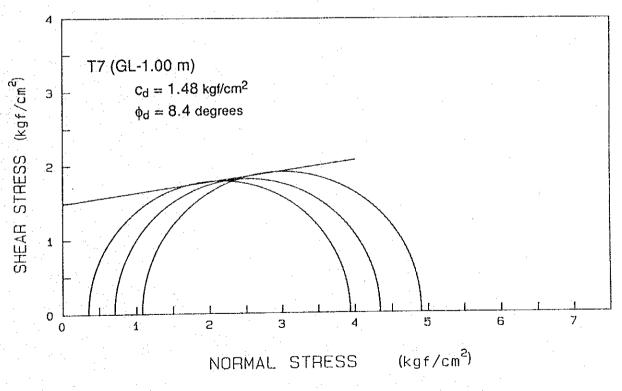


Figure A.4-6 MOHR'S CIRCLES OF MATERIALS OF TEST PIT (T7)

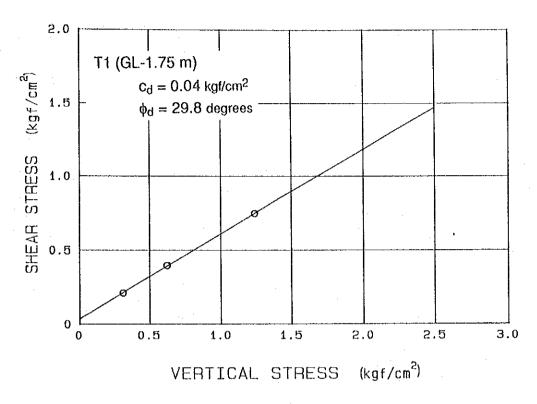


Figure A.4-7 DIRECT SHEAR TEST RESULTS (T1)

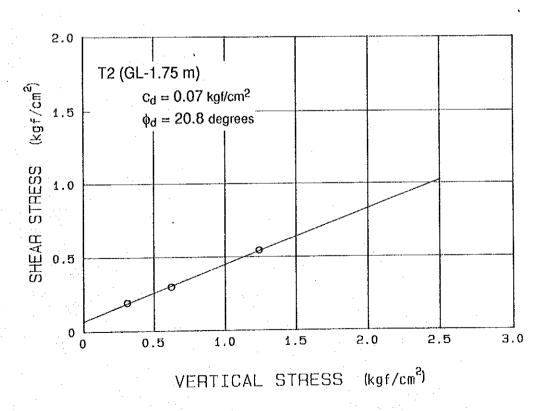


Figure A.4-8 DIRECT SHEAR TEST RESULTS (T2)

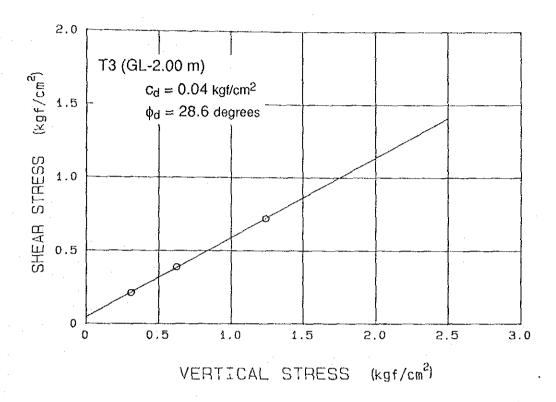


Figure A.4-9 DIRECT SHEAR TEST RESULTS (T3)

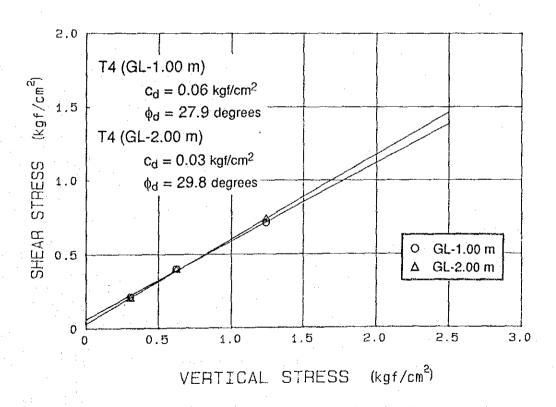


Figure A.4-10 DIRECT SHEAR TEST RESULTS (T4)

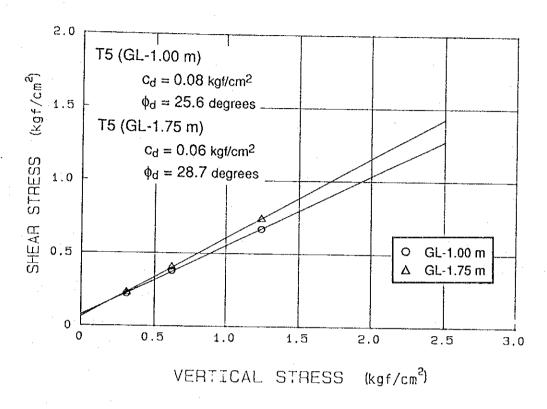


Figure A.4-11 DIRECT SHEAR TEST RESULTS (T5)

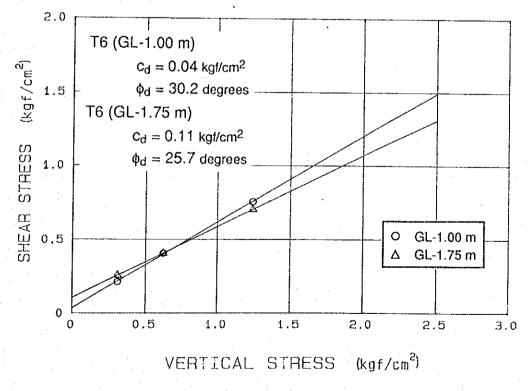


Figure A.4-12 DIRECT SHEAR TEST RESULTS (T6)

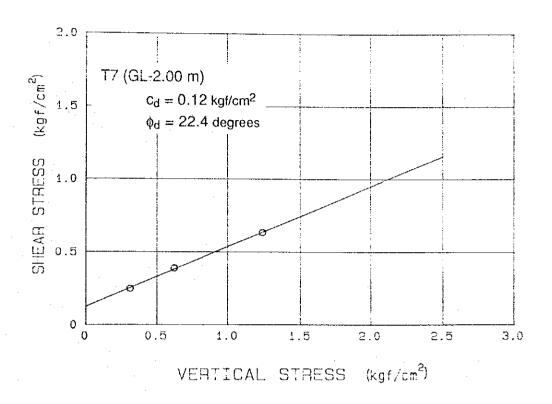


Figure A.4-13 DIRECT SHEAR TEST RESULTS (T7)

