3. LOG SHEET ALONG THE ALIGNMENT

					٠.	
	Particle size Sounders & Cobbles 2 - 60mm Gravel 60 micron - 2mm Sand	2 - 60 micron Silt Clay	TOTAL CORE RECOVERY Total of all core recovered including fragmental material Length of core run SOLID CORE RECOVERY	Length of core recovered having full diameter Length of core run ROCK GUALITY DESIGNATION Total length of core of full diameter & length 100mm or greate	Length of core run FRACTURE INDEX is the number of natural fractures over an arbitrary length within which the fracture spacing is relatively constant.	Non intect i.e. fragmented, not full diameter. WATER REST LEVEL is the level of water within the borehole in respect to ground level. (suffix */ before the figure indicates the level as above ground level).
	8			1		2 3 6 6
GRAIW SIZE	Term Very coarse Coerse Medium	Fine Very fine ABBREVIATIONS	μ ο ο ο ο ο ο ο ο ο ο ο	ο ο α	F.I.	N.I. W.R.L.
DEFINITIONS USED IN DESCRIPTION OF ROCK CORES WEATHERING GRADE	1A Fresh - No visible sign of weethering 18 Faint - Discolouration on major discontinuity surfaces II Slightly - Penetrative weathering on open discontinuities but only slight weathering of rock mass	<pre>III Moderately - Weathering extends throughout but rock mess not friable IV Highly - Weathering extends throughout and rock mass is friable.</pre>	V Completely - Rock is wholly decomposed and friable but structure and texture are still maintained VI Residual Soil - Rock completely converted to soil and structure etc. destroyed. Material not significantly transported.	UITY SPACING	Very wide > 2m Wide 600 mm - 2n Moderately wide 200 mm - 500 mm Close 60 mm - 200 mm Very close 20 mm - 60 mm Extremely close < 20 mm	NCLINATION ted on the right of the "C re the angles in degrees ontal.
All Andrews An			A-64			
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Mowlem Cons	str	ucti	on	Co.	Ltd.	Bore Sheet	hole 1	No.	BE	}	
Equipment & Methods. Ratary auger 150mm die G.L1a50ma Ratary coring 101mm dies 1.50-8.25m			tion.	NAIR	Personal and the Control of the Cont	PA:				Ром/жүр, шүсд	
carried out for JAPAN INTERNATION	AL	Grou	nd Le	-Andrews	Coordin	-		Date			
	•	₽_	7	T B	5-		/~	- NAMES AND POST OF THE PERSON NAMES AND POST OF	_20/7/90		
Description	÷	Reduced	Legend	Depth 2. Thickness	301	nples Sa	/ lest mple	\$ }	1	ield cord:	_]
		α		o E	Depth	Type		Test	nt.	coro	
Reddish brown SILTY CLAY.				(00.1)	6.L 1.00		B1				
		:		E 5						÷	
Moderately weathered brownish grey pyroclastic TUFF.	:	:	Δ.	E	1.00 1.45	;	DZ	N = 60			
pyrooieseld logg.			Γ. Δ.	E				EL	TCR	RQD	GRAD
			4:	1.95)			:				
			4	ie S	1.45 _ 2.95			2	100	20	
			Δ,	ŧ.						ļ	
	—		4/13	F 2.95		1	:		-		-
		,	(A)	E							}
Slightly weathered with widely	70°→		4: "	E	2.95_4.45			3	100	62	
spaced fractures brown with grey patches pyroclastic TUFF			۸٠,	Ę							
of subangular grey, altered			۵, '۵	E							
greenish grey pumice inclusions			Δ.	E					`		
upto 4cm in fine grained brown			۷. ۲	.E. (0%							
natrix.			1,3	E 3	4.45 . 5.95			2	100	40	,,]
Rogaria Turn Cura II EE-	80°-	. •		E	4,45 . 5.55				100	40	"
Becomes grey from 7.75m			a (E							
Fractures steep rough clay	ᅱ			F				-			
filled/limonite coated.			4:14	E					÷		
	90°		: Δ:	E	5·95 ~ 7.45			1	100	48	ı
	4	:	8. 6	E				'	,00	40	- 1
	1			Ē							
			4	E			.				
	1		4:4	E	7.45 _ 8.25			0	1001	امم	١
		.]	. A ;	8.25			_	_	.00,		
				E '. 23					:		
END OF BOREHOLE				E							
	ı			111				l l			
	- 1			-	•		i				
<u> </u>				=							
P.T. Where full 0.3 m penetration has not Sam		est Ke		Remark	(\$				Log	gged	ьу
for the quoted penetration is given B Bi	sturbi ulk so	id samt imple	PIEK). O	
(Note Nivertine): W.W.	ater s	sample) Tube(U)	or core						1	ale	
Se Si	ample and) Tube(U) length to Penetral	scale ion lest			•		•		1:50	
Column	Te:	t P	1						Fig	}.	
are given on the lest sheet of log.	Frank school States	overy Jijy Desig A-65	ru(IOXI		*		Neobosens)	-		CONTRACT	***************************************

Mowlem Constru			Co.	Ltd.	Boreholo Sheet 2		3E 1
Equipment & Methods. See Sheet 1	Loca	tion.	NAIR	ОВІ ВУ	_PASS		
Corried out for JAPAN INTERNATIONAL	Groun	nd Lev	rel	Coʻordin	ates	Date	
COOPERATION AGENCY	2		T is		<i>'</i>	1820	
Description	Reduced Level	Legend	Depth & Thickness	Sa	nples/Yes	ts	Field
	. R	3	å Ë	Depth	Sample Type No	Test	Records
DATE TIME DEPTH (M) HOLE CASING W.R.L REMARKS			E				· .
1817/90 18.00 1.00 NIL DRY			E				:
201719 0 18. 00 8. 25 1.00 2.00			E.				
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			11.1				
	Ì		E				
S.P.T: Where full 0.3 m penetration has not Sample /	Test Ka	ν.	Remari	:\$	11_	11	Logged by
been achieved the number of blows D Disturb for the quoted penetration is given B Bulk s	ed sam						J. O.
(Not N value) W Water	sample	or cons		•			Scale
EPTHS:All depths and reduced levels in metres Thickness given in brackets in depth \$ Standar	P) Tube(U) length to d Penetra	scale tion Test			•		1:50
Thickness given in brackets in depth column vane Te C Core re are given on the last sheet of log.	st wery glily besi	gnation					fig.

Mowlem Constr			Co.	Ltd. s	30re heet		No.	BE 2
Equipment & Methods. Retary auger 150mm dla. G.L-3,10m	Loca	tion.	NAIRO	DBI BY	. PA	SS	ergene Lementike 3 pl. e. Colorie iz	A - Lawrency Met. et al. 18 May 1-1920 - Make and Capital AS CET of Supple
corried out for : JAPAN INTERNATIONAL COOPERATION AGENCY		nd Lev	/el	Coordina	tes		Date	5_17/7/90
Description	Reduced	Legend	Depth 8. Thickness	Sam Depth		Test		Field Records
		× × × × × × × × × × × × × × × × × × ×		G.L 1.00 1.00 _ 1. 45 1.45 _ 1.50 1.50 _ 1.95 1.00 _ 2.00 2.00 _ 2.45		B1 U2 D3 D4 B5 U6	S N = 4	U100BLOWS 3 9
Seft becoming firm and hard reddish brown Silty CLAY.		× × × × × × × × × × × × × × × × × × ×	(5.0	2.45_2.50 2.50_2.95 3.00_3.45 3.00_4.00 4.00_4.45		D7 D8 D9 B10	5 N = 11 S N = 10 N = 32	UIOO BLOW 3 30
Herd brown alightly sandy SILIY CLAY with some fine gravel. Very compact brown sandy SILT with weathered gravel. (tuff)		* * * * * * * * * * * * * * * * * * *	(2.00)	5.00_5.45 5.00_6.00 6.00_6.45 6.00_7.00 7.00_7.45 7.00_8.00		D15 B16 D17 B19	\$39 N=39 N=38 N=38 N=49 N=49 N=34	
S.P.T: Where full 0:3 m penetration has not been achieved the number of blows for the quoted penetration is given B Bulk s	oed samj ample		Remark	:\$				Logged by J.O.
Column	P) Tube(U) : length to rd Penetral	lion lest		d bin collection — турке анд такуруна деятергі індер	COS ASSESS CONTRACTOR	· The residence of the second	ekkonpus samblus sil saabus	Scale 1:50 Fig.

Mowlem Constru	ucti	on	Co.	Ltd.	Bore Sheet		No. 8	BE 3
Equipment & Methods: Retary auger 150mm die. G.L5.00m	Loca	tion.	NAIR	OBI BY	_ PAS	S	D. Marie A. C. Berg de mair en 1840	and the same of th
COOPERATION AGENCY	Grou	id Lev	·el	Coordi		CH Wastermitz	Date 22/	7/ 90
Description	Reduced Level	egend	Depth & Thickness	Se	mples	/Test	-	Field
	α	××	o £	Depth		No	Test	Records
		· <u>*</u> . <u>*</u>		G.L 1.00		81		·
		. <u>*</u> * <u>*</u>			1		·e	
		 		1.00 1. 4	- 1 - 11	D2 83	N=24	
		<u>× . ×</u>					_	
Stiff becoming hard reddish brown SILTY		<u>× . x</u> × x	5.00)	2.00_2.41	1 11/	D4 B5	N= 49	
GLAY.		, <u>×</u> ,	(S)	:				
		× ×	E	3.00_3. 4 3.00_4.00	1 11	D6	S N=28	:
w Hart Lewis Lab.		<u>* </u>	E	3.0024.00		5/		
		<u>×. x</u> . x x		4.00_ 4.4 4.00 _ 5. 0	- f H	D8	N = 50	:
	·	×	5.00			69		
			1	5.00_5.4 5.00_6.00	1 11	D10	N=53	
		· — · — ·	1111	5-00_6.00	'			
Very compact erange brown elightly sandy CLAYEY SILT (completely weathered tuff)	:	<u>×</u> .		6.00 ₋ 6.4 6.00 ₋ 7.00		D12	N # 50	
Andrew State Communication (Communication Communication Co		×		0.002710				
		<u>×</u>		7.00_ 8.00		B14		
	' \	×	8.00				i.	
			1111					
END OF BOREHOLE								
			-					
S.P.T. Where full 0.3 m penetration has not been achieved the number of blows for the guoted penetration is given B Bulk so	ed samp		Remark	:\$				Logged by
(Not: N. value). W. Water : Piston(FPTHS:All depths and reduced levels in metres	• .	or cont					•	Scale 1:50
column Se Standan	d Penetral st	ion lest						Fig.
are given on the last sheet of log.	plify Desig	p == (1\1)		A STATE OF THE STA	a la ferrancia de mare	Edelan prove	W00-F	1

Mowlem Constru	ucti	on	Co.		oret			2	ΕZ	*	
Equipment & Methods. Notary auger 150mm dla. 0.1.5.00m. Rotary cering 101mm dia. 6.00. 9.15m	Loca		NAIRO	ВІ ву	_ P/	4 SS		-	*******		
carried out for : JAPAN INTERNATIONAL	Groui	id Lev	el	Co ordina	tes		D	a te	TEMPER SE		***************************************
COOPERATION AGENCY					٠	2	7 7	287	7/9	·	
	5	ď	K	5.4		,		Ť			
Description	Reduced	Legend	Depth & Thickness	oun.	ples/	mple	У	_		æld	
	α	ů	ă Ē	Depth	Type		Tes	۱	M & C	cords	
		× . ×	_						· Comment		***************************************
		×.	Ξ	<i>5</i> . 400							1
		· ×	_	G.L 1.00		81		- 1			
		××	<u>E</u> .								
		. <u>×</u> .	-	1.00 . 1.45		DS	S N =				- 1
Firm becoming hard		<u>*</u> . <u>*</u>	E _	1.00 - 2.00	Ĭ	B3	14 =	٩l			. [
reddish brown SILTY		<u> </u>	. 50)	7.002 2.00		ι					
CLAY.		. <u>×</u> .	- 3		,,			1			
		_ <u>`</u>	E	2.00_2.45	•	D4	N S	8			
* · · · · · · · · · · · · · · · · · · ·		`	<u> </u>	2.00_3.00		B5		-			.]
			E					1			į
		<u>* . </u>		:	+,	İ	s	Ì			
		., <u>.</u> .	E	3.00_3.45	+	DS	Νz	8			
		2.5	3.50	3.00_ 4.00		B7 ·					
High weathered		, , V	=								
brown pyroclastic		Δ.,	-		A)		,				
TUFF.		4.4	-	4.00_ 4.45	•	08	N =	28			
		:4	E i	4.00 - 5.00		В9	•				
·		9:4	E								
		٠۵.	-		*		S				
			E	5.00_5.45	1	D10	NE!	50			
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	_	5.00_6.00	'	вп		ı			
		, , , d	E 6.00				1	EL	าตา	RQD	GD AC
		7	E 8.00								21.5
		9 V	È	,		·					
		::4:	E	6.00_7.10				0	100	63	.
Moderately weathered		4:4	_			ļ					
brown pyroclastic		:4.	(0		1						
TUFF of angular pumice upto 3cm; occasional		4.14	(2,60								111
lava fragments, in fine		Α.	E								·
altered natrix.	•	7 3	Ē	7.10_8.60				3	100	26	· ·
4200.00 200.200		. 0.									
		4:4	8 60			;					
Moderately weathered with closely		VV	8 (0ç.)10 9.111								11
and medium spaced fractures grey ouniform fine grained TRACHYTE		٧	<u> </u>								11
Highly weathered machine broken		V V	80)	8.60_9.90				3	100	26	
brown TRACHYTE with black		V V V	L . :			1.					37
ferruginous spots.		V	0.00							·	
	Tank V-		Remar	<u> </u>	·	l			10	09986	l ku
S.P.T; Where full 0.3 m penetration has not Sample / been achieved the number of blows 0 Disturb			CI CINUS	~ ~					'		
for the quoted penetration is given B Bulk s	ample								=	J. (/ ·
(Not N value) W Water EPTHS:All depths and reduced levels in metres ample sample	sample P)Tube(U length to)or core							"	1:5	<u>.</u>
mickness given in arackets in orbiti 154 Stands	nd Penetro	scale itlon:Test		. •			ų.		ينا		
column y yone h	rst .	- [•						ig.	
are given on the last sheet of log.	Dity Des	gnation			CHURCHEN CO.	unione de la cons					

Mowlem Constru	uctio	on	Co. I	_td.	Boreho Sheel 2	ole No. 1	BE 4
Equipment & Methods. See Sheet 1	Locat	ion.	NAIRO	BI BY	_ PASS		ok haratis Suare Barret e e e Electrica de la Companio de Audio de Companio de La Companio de La Companio de L La Companio de Companio de La Compa
COLUMN TOT JAPAN INTERNATIONAL COOPERATION AGENCY	Ground Level Coordinates Date 27,28/7.		77.90				
Description	Reduced Level	puaban	Depth & Thickness		mples/T	ests	Field
	Re	3	o t	Depth	Type		Records
DATE TIME DEPTH (M) REMARKS							
0ATE 11 ME HOLE CASING W.R.L. REMARKS 27/7/190 7.00 NIL NIL NIL 18.00 7.10 5.05 1.20							
28/7/90 7.00 7.10 5.05 2.00 18.00 9. 90 NIL 2.20							
			1 1 1 1				
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			Linui				
and the second s			E				
inickness given in arackets in cepth 1 ca climbs	bed sam iample sample (P) Tube(l r length b	iple))orcom oscale ation les	4	ks.		•	J.O. Scale 1:50 Fig.

pment & Methods. Retary auger 150em dia. 5,45m. Retary cering 101mm dia. 8,45-9,15m		Location. NAIROBI BY PASS							
16d OUT FOR JAPAN INTERNATIONAL	Grou	nd Level	Co ordinates		nte 18190				
Description	Reduced	g	Samples	Tests	Field				
A STATE OF THE STA	Reduce	Legend Depth 8, Thickness		ample Tes	Records				
		x x - x - x	G. L 1.00	Bi					
		× × × = × × × = × × × × = × × × = × × × = × × × = × × × = × × × × = ×	1.00_ 1.45	D2 N=					
		× ×	1. 45 2.00		5				
		. <u>×</u> .£	2.45_3.00	D4 N:	= 20				
Firm to steep becoming hard reddish brown		× × × (00.00 × × × × × × × × × × × × × × × × ×	3.00 _ 3.45	DS N =	31				
SILTY CLAY.		* . x = 5	3.45 _ 4.00 4.00 _ 4.45	B7	S = 32				
		×.×E	4.45_5.00	89					
		×	5.00_5.45 5.45_6.00	D10 N =	32				
		× . × . = . × = . × = .	6.00_ 6.45	D12 N	28				
		× × 7.00	1 1	B13	s				
Hard orange brown CLAYEY SILT trace sand.		(1.80)	7.45 8.00	D14 N	≚48				
Moderately weathered fine to		8.00 4.4 4.5 4.7	8.00_8,45	DIEN	S = 56 FITCR RQD GR				
Completely weathered clayey TUFS as above.	_	A V = 9.15	8.45_9.15		3 100 33				
END OF BOREHOLE									
been achieved the number of blows D Distu for the quoted penetration is given B Bulk	/Test K ribed sar sample or sample n(P) Tube(ple length	nple	rk\$. ,	Logged b J.O. Scale 1:50				

Mowlem Constru	ucti		Co.	Ltd, s	loreh		No. [3E 6	ng maglang andrice, gither bang		
Gil-to70m, Retary coming 101mm dia. 4.70-11.00m			NAIR	DBI BY,	_PAS	SS					
corried out for JAPAN INTERNATIONAL COOPERATION AGENCY	Grou	nd Lev	el	Coordina	tes		Date	301715))		
Description	Reduced	Reduced Level Legend Depth		Reduced Level Legend		Sam	ples/		1	Field Recor	3
	œ ,	x x	o f	Depth	Type		Test	RECOI	O »		
		× × × × ×	ليساس	G.L 1.00		81					
er e		. <u>×</u> . × . ×		1.00 - 1.45			N = 14				
Firm to stiff and stiff reddish brown SILTY CLAY.		× . × .	4.00)	1.00_ 2.00		B3	s				
		^ · × · × × ×)	2.00 ₊ 2.45 2.00 ₋ 3.00		D4 B5	N =15				
		× . × . × .	Lith	3.00_ 3.45		D6	S N=22				
		<u>× ×</u> . <u>×</u> .		3.00_ 4.00	1 11 1	B7	NEZZ				
		× × × × × × × × × × × × × ×	- 4.00 E	4.00_4.45		D8	N 5 2 5		÷		
Completely weathered orange brown TRACHYTE (as sandy clayey silt)		VVVV VVVV VVVV	(07.1	4.00_ 4.70		B9	हा	TCRRG	DGRA		
		>>>> >>>>	5.40	4,70_ 6.20				00 00	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Highly weathered light grey fine grained TRACHYIE		>>>>> >>>>>> >>>>>>	(08.0) S				3	83 20) IV		
90 [®] Slightly weathered with widely		>>>> >>>> >>>> >>>> >>>>		6.20 7.7 0			2	100 8	<u>.</u>		
spaced fractures grey fine grained vesicular and porphyritic TRACHYTE.		>>>> >>>> >>>>	1	0.2027.70			2.				
Vesicles upto 2cm linear, some lined with limonite/green chleritic material.		>	(3.80)	7.70~ 8.70			3	100 7	0 11		
Fractures steep rough limonite/ clay lined.		>>>> >>>> >>>> >>>>>									
70**		**** **** ****		8.70_10.00			1	100 6	9		
P.T. Where full 0.3 m penetration has not Sample / been achieved the number of blows 0 Disturi	bed sam		Remar	ks					jed by		
(Not N value) PTHS:All depths and reduced levels in metres Thickness given in brackets in depth Stando	The state of the s			Scal	Scale 1:50						
column V Yang T	est covery rality Des			-rhon. Little Fall M. S. and Recognision on Market	an line and the target			Fig.			

Mowlem Construction Co. Ltd. Borehole No. BE 6										
Equipment & Methods.	Local		AIRO	BI BY.	PA:	SS		,		
COOPERATION AGENCY	Grour	d Level	The second section of the sect	Coordina	tes	**************************************	Date 29_3	0/7/9	0	
Description	Reduced Level	T T T T T T T T T T T T T T T T T T T		1	Fiel Reco	j				
Completely weathered non intact light greenlah grey fine grained TRACHYTE. Zonally reddish brown.			5	10.00_11.00			NI	100 0	V	
END OF BOREHOLE										
DATE TIME DEPTH (M) REMARKS 19/7/90 7.00 NIL NIL DRY 18.00 10.00 3.60 2.00			•							
30/7/90 7.00 10.00 3.60 3.00 18.00 11.00 N(L 3.10										
									•	
				1						
been achieved the number of blows or the quoted penetration is given B Bulk		y. ple	Remar	ks		J		1.	ged by	
(Not N value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth	r sample (P) Tube(L) le length b ard Penetro Test recovery luglity Des	nion kest				n.v	,	1	:50	

uipment & Methods. Retary auger 150mm dia. L-6,45m. Retary cering 131mm dia. 6,45-11,30m	Loca		NAIRO	AND THE PARTY IN THE AMERICAN PARTY OF THE P	PASS	A Liber was not the hand have a company of the notice polyter of the Sales Sales			
oried out for : JAPAN INTERNATIONAL	Gray	nd Lev		· And Annual Property of the Annual Property	\$\rightarrow\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
OPERATION AGENCY	Q. 50	IIG EEV	K 1	Co ordinat		31/7/90			
	8 =	g	£ \$	Sami	oles /Tests	Field			
Description	Reduced	cgend	Depth & Thickness	Denth	Sample	Percede			
		××	-		Type No				
		X X		G.L 1, 00	Bı				
t vojske varejskih se vajski Postova se varenskih seko			Ē						
The affect of the American				1.00 _ 1.45	D2 N =	21			
		<u>× . ×</u>	E	1.002 1, 45	A	21			
enter de la companya br>La companya de la co		* . <u>*</u>	E	1.45 _ 2.00	B3				
		××	E	2.00 _ 2.45	D4 N =	53			
		× ×	-		+				
		× ×	E	2.45_3.00	B5				
Stiff becoming hard reddish brown SILTY		, × ,	6.00)	3.00_3.45	D6 N=	5 9			
CLAY with sparse black ferruginous impregnation.		<u>X</u> _	် မ		† '				
		1. ×	E	3. 45 _ 4.00	₩ 87				
			Ē	4.00_4.45	D8 N=	47			
		<u>*</u> ×	E	4.45 _ 5.00	↑ ′ _{B9}				
		×.×	-	4.43 . 3.00	1				
		× . × . ×	Ē	5.00 _ 5.45	• เกาก เ	58			
		. <u>×</u> . ×. ×	Ē	5.45 _ 6.00	811				
		×	600	600 6 (5		5			
		4446	Æ·	6.00 _ 6.45		F.I TCR ROD GRA			
		V V V V	·}~	6.45 _ 7.20		NIDOO O V			
Completely weathered non intact grey fine grained		777	~ ~	0.43 2 7.20		,			
TRACHYTE.		VVVV	E						
Reddish brown SILTY CLAY.		VVV	1.70 2.90	7.20 - 8.20		NIIIOO =			
Gompletely weathered non intact grey fine grained altered TRACHYTE		\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	E 8.20	1		<u> </u>			
Reddish brown SILTY CLAY	-	VVVV	H-						
Completely weathered light		VVV\	E						
grey fine grained vesicular and porphyritic TRAGHYTE		VVVV VVVV	1.60 1.60	8.20~ 9.70		NI 93 0 V			
with reddish brown clay pockets.		VVV	E						
		<u>`````</u>	<u> </u>						
	/Test K		Remai	ks		Logged by			
for the quoted penetration is given B Bulk	sample r sample	· !		•		J. O. Scale			
THS:All depths and reduced levels in metres Pistor	n(P) Tube(U)or cont to scale				1:50			
column IV Van	land Penetr Tiret	ution ies	١			Fig.			
R.L.: Water level observations during boring C Core are given on the last sheet of log.	A-74	signation	dagenative springer	and the state of t		Contraction of the Contraction o			

Mowlem Construction Co. Ltd. Borehole No. BE 7 Wignerst & Methods. Location.											
See Sheet 1	Loca		NAIRC	BI BY	_ PA	SS	-				
COPERATION AGENCY	Grour	id Leve	:	Coordin	ates	de all their services, annu	Date 30/	7/90	O .		
Description	Reduced	Legend	Depth. 8. Thickness	Samples / Depth Sam			Test	Field Records			
(as above)		~~~~ ~~~~ ~~~~~	···		Type	No					
Completely weathered light grey fine grained vesicular and porphyritic TRACHYTE.		V V V V V V V V V V V V V V V V V V V	(1.3C	9.70_11.3	0		. NI	100	0 V		
END OF BOREHOLE		×××××	is limit on the colored and th								
column V Vane 1	bed san sample sample (P) Tube(I e length t ard Penetr	nple J)orcore pscale ation Test						S	ogged by J.O. cale 1:50		

Mowlem Consti	Loca	-		<u> </u>	Sheet	<u></u>	of]		per la company de la company d
Rotary auger 150mmdia.			NAIRO	BI BY	_ PAS	35			
ried out for :JAPAN INTERNATIONAL	Grou	nd Leve				A) myelmeşteliğ			
OPERATION AGENCY							30/7/90		
	\$	φ.	T #1 51/7-		Samples / Tests			Field	******
Description	Reduced	Legend	Depth & Thickness	T Samule T			Record	r.	
	e	 	ŏ £	Depth	Type	No	Test		-
		<u> </u>			1		:		
		× ×	•	G.L - 1.00		B1			
		×.							
		×	,			:	s		
		<u>x , x</u>		1.00 - 1.45	1	D1	N=6		
Madeum and bond		x x		100 - 2.00		B 2			
Medium and hard reddish brown SILTY CLAY.		x							
redutor promit prost opin.		<u> </u>	111	2.00 – 2.45	∳ ↓ [▼]	D 2	S		
		<u>X</u>	- (N = 7		
	-[<u>x</u> .	5.50	200 3.00		В3			
		<u> </u>	F ~				_		:
e Para di kacamatan		<u>x</u> .x	<u> </u>	3.00 - 3.45	114	D3	S N>50		
n die State (1905 – 1905). Die George March, daren der State (1905).	.1	×,	E			В4	-		:
		<u> </u>	Ė	3.00 -4.00					
		<u>x</u> . x	F	4.00 - 4.45	41	D4	S		
•		. X .	Ē.	4.00 4.43		04	N = 32	. •	
		X .	E	4,00 - 5,00		В5			
		X., X	_	,,,,,,					
		· ^ · x	E	5.00 - 5.45	1	05	S N > 50		:
	-	VVV	5,50		'	B6			
Completely weathered orange		I V V	95)	5.00 - 6.45	5				
brown TRACHYTE. (as sandy clayey silt)		1,000	F 🦉						
(25 Belluf Stafe) 51207	_	<u> </u>	6.45		*				
			E						
END OF BOREHOLE									
			E				ļ		1,
 To the Architecture with the decision of the Architecture of the Architec			Ē						::
and the property of and a			E						
			E .						
en er en er en			E						
en la companya di Amerika di Salah di S			E		:				
			<u> </u>			1			. :
			E			1			
			F					. :	
tari da karangan da karang Karangan da karangan da ka		1	E						
: Where full 0.3 m penetration has not Sample	/Test K	ФУ.	Remar	ks				L 099	
been achieved the number of blows D. Dist	urbed sar c sample	nple							<u>0.</u>
w was	ee comple	t (1)~~~~~						Scale	
HS:All depths and reduced levels in metres Past	on (P) Tube(opie length	to scale							50
column	ndard Peneti Prest	ration ies	1			i		Fig.	
L: Water level observations during boring C cor are given on the last sheet of log.	Cuplify De	signation							· ·

pment & Methods, Retary auger 150am dia. 7,45m. Retary cerling 131am dia. 7,45-13,00m	Loca	Parone in Lorenzes	NAIR(DBI BY.	. PA	SS	***	220A# - 84F	**************************************
ied out for : JAPAN INTERNATIONAL OPERATION AGENCY	Grou	nd Lev	ei	Coordina	les		Date		`
JECKNIION AUCINCI	-	*******	io		· · · · ·	1		7/90)
Description	Reduced	regend	Depth & Thickness	Sam Depth	Sample Test				ield cords
		× ×			Type	No			
and the second of the second o	1	, _×	E						
en e	1.	<u>* . </u>	E	G.L 1.00		B1			•
and the control of th		× . ×	E		 \				
		· <u> </u>	Ė	1.00_ 1.45		DZ	S N = 6		
we had be father to be				1.00_2.00		B3	:		
].	×. ×	E						
AN Arthur Garage (All Colors of Colo		× ×	-		†]		S		
	1	. <u>×</u> .	E	2.00_2.45			พะ16		
and the second second	1	<u>×</u> . ×	E	2.00_3.00		B5			
		××	E		1				·
		× .	Ė	3.00_3.45	•	D6	S N ≃12		
Soft to firm, firm to stiff becoming hard	1	<u> </u>	(S7	3.00_ 4.00		B7		 -	
reddish brown SILTY GLAY.		<u>× . ×</u>	5.5						
		, <u>×</u> .	F		∤ [₹]		S		
		×.	E	4.00_4.45		D8	N =1 S		
		× . ×	<u>.</u>	4.00_5.00		89			
		x x	Ē		4		٠.		
		. <u>×</u>	_	5.00_ 5.45	Į.	סום	S N=30		
		× . ~		5.00_ 6.00		B11			
		× . ×	Ē						
		· × ×	-	6.00 <u>.</u> 6. 45	1	012	S N=48		
		. <u>×</u> .	E			012	14 = 40		
	, •	×. <u>×</u>	E	6.00 _ 7.00		B13			
		×. ×	<u> </u>	·	1				
		. <u>×</u> .	E	7.00 _ 7. 45			N = 54	200	nones.
	-	× × ×	2, 45	1			EL		RODGR
Gompletely weathered non intact light grey fine grained vesicular TRACHYTE.]	VVVV	- - 7.85	7.45_7.85	Ļ		N	100	
Reddish brown SILTY CLAY.	4	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8.05			ĺ			-
		V V V V	=						
Completely weathered srange brown	1	V V V V	F	7.85 _ 9.35				96	0
TRACHYTE (as clayey silt)		VVVV	95)						l l _v
		VVVV	ξ. 3.		1				
	1.	V V V V	-						
		V V V V	E	9,35_10.85			INI	96	0
there full 0.3 m penetration has not Sample	Test K	V V	Remar	<u> </u>				1.	ogged by
been achieved the number of blows D Distur	bed som								J: O.
for the quoted penetration is given B Bulk (Note N Value) W Water	sample		1					s	cale
All depths and reduced levels in metres Piston	(P) Tube(l le length t	l)or core							1:50
column	and Penetri Test	ation less				٠		F	ig.
Water level observations during boring C Core are given on the last sheet of log.	rcovery ug)ify Des	ignation	1.		•				

Mowlem Construction Co. Ltd. Borehole No. BE 9										
Equipment & Methods. See Sheet 1	Local		NAIR	DBI BY	_ PASS	orange , as ma nje <u>ga mejanasi</u> n				
COOPERATION AGENCY	Grour	id Lev	ei	Coordina	ites	Date 20	77/90			
Description	Reduced	Legend	Depth & Thickness	Sam	ples/Test		Field			
	8 3	دور <>>>	This	Depth	Sample Type No	Test	Records			
(as above) Gempletely weathered erange brown TRACHYTE (as clayey milt)		**** **** **** **** ****	Ξ	9.35_10.85			v			
Reddish brown SILTY CLAY			13.(67) F	10,85_12.35		NI	100 O _			
Completely weathered non intact brown TRACHYTE.		**** **** ****	11.75 (09) 12.35				V.			
Reddish brown SILTY GLAY			— જિ	12.35_13.00		NI	100 0			
END OF BOREHOLE										
 H. Jingsom from particular and action of the second control of the second contr										
column	ample sample P) Tube(U length to rd Penetro	ple)or core scale ition l'est	Remar	k s		•	Logged by J. O. Scale 1:50 Fig.			

Mowlem Constr	ucti	on	Co.	(E.A.)	Lt	đ.	Bore			
Equipment & Methods. Retary auger 150am dia- tolas dia- 9.00-4.10s. Retary auger 150nm dia- 11.10-7.30s; Retary coring 10tss dia- 7.30-14.00s	Loca		AIROE	I BYPA	\SS	DG.) A D			
Corried out for : JAPAN INTERNATIONAL	Grou	nd Lev		Coordi		, , , , , , , , , , , , , , , , , , ,	Date	A COLUMN AND	- Tart dress	
COOPERATION AGENCY				4- 2. 3,1				.267	9/9)1
	200	ğ	- X	50	mples	/Test	\$	F	ield	
Description	e duced Level	egend	Depth E. Thickness			mple	1	1	cords	.
The second secon	<u> </u>		0 =	Depth	Турс	No	Test			
		<u>, , , , , , , , , , , , , , , , , , , </u>	E							
		<u> </u>	F	G.L. 1.0	0	B1		1		l
Soft becoming stiff reddish		,,,	E 2							ĺ
brown SILTY CLAY.	1	, <u>×</u>	77.77 2.45)	1.00-1.4	5	D2	S N = 5			į
Dry soil.		-××	E		1					1
	.}	×××	E	1,50_2.0		В3				
		. × .	E		1		S			
·		_ <u> </u>	E 2. 45	2.00_2.6	5	04	N = 16			
		× · ·	E	2.50_3.0	1	B 5	:			İ
		× · · ×	E		₩	1	s <u>F.i</u>			GRA
Very compact brown sandy			E	3.00 _ 3.1	5	, De	(51) R	EFU S	AL	1
CLAYEY SILT with weathered		<u>;:</u>	F-(0)	3.00_ 4.1	0		NI	100	0	V
tuff zones and fragments and lateritic GRAVEL (ϕ 0.3cm).			[2.							
(completely weathered tuff)	1	<u>×</u>	E		ı		s			
Dry soil.	:	×	E	4.10_4.5	5	D7				
			Ē	4,55 _ 5.0	. 1					
		-:-	<u>-</u> 5.05	4,35 _ 3.0	5	B 8	c			İ
Orange brown mottled black nodular fine lateritic GRAVEL(ϕ 0.3cm).in clay matrix		0000	57-1	5.05 _ 5.5	0	09	N = 50			ł
Time lacel tota distribut por Jenny. In Clay matrix	1	× : ×	5.50	l	<u>,</u>					
		. <u>×</u> :	Ė "	5.50_6.0		B10	1		•	
Hard reddish brown sandy SILTY	1	×·×	(1.50)	6.00_6.4	0	וום	(134)	REF	USA	۲ ا
CLAY with weathered tuff fragments.		×××			. '↑					ı
		×	E	6.40 7.0	<u>۱</u>	B12	1.			
	1	XX	E 7,00	7.00_7.3	s i	013	(162)	REF	USA	ii
Highly becoming moderately	1		E		11		FI	TCR	RQD	GRAD
weathered non intact brownish grey trachyte ACGLOMERATE of angular			11111 (1.75)	7,30_8.0	0		NI	100	0	IV.
compact and finely vesicular trachyte			<u> </u>		, l					
fragments upto 6cm and pumice	1	1):(E	8,008.4			N	100	0	111
in thin altered fine grained matrix.			<u>├</u> - 8.75			1				
		7777	T							
		2222	F 6	8.40_10.0	0		17	100	8.	17
See Sheet 2		2000	F							'
		2222	Ε.							
S.P.T: Where full 0.3 m penetration has not Sample	/Test Ki		Remar	ks				Į,	9966	1-by
been achieved the number of blows D Distu	rbed sam								J. ().
	r sample	N-c						S	cale	
DEPTHS:All depths and reduced levels in metres Pistor	(P) Tube(l le length t	C PCTRE	j						1:5	
column y yone	and Penetri Test		1					F	ig. 2	•
W.R.L.: Water level observations during boring C Core are given on the last sheet of log.	uplily Des	ignation								·
The state of the s	A-79									

Mowlem Con aulpment & Methods.	Local	*****				• 	Shee	20		(
See Sheet 1		NA	ROBI	BYPA	SS	RO	DAD		÷	
Torgled out for JAPAN INTERNAT	TIONAL Groun	and the law of the law		Coordina			Date			
COOPERATION AGENCY		,	***************************************				24	267	9/9)1
Description	educed	end.	Depth & Thickness	San	ples	Test:	·····	Field		
Septify the	Re de	7607	Oracid.	Depth		mple	Test	Re	cord	5
		V V V V V			Type	No				-
		V V V V								
Highly weathered with very closely		V V V V	=	10.00_11.50			12	100	7	
and closely spaced tractures partly no		V V V V								
intact grey with green tinge fine grain TRACHYTE with occasional less weathered		V V V V								
zone upto 15cm.	1	VVVV	<u> </u>		1					
en en graf i francisco en en en esta en en el en en en en en en el en en en en en en en en en en en en en		VVVV	ㅡ 약			·				
		VVVV	2	11.50_13.00			10	100	Ó	17
Fractures subhorizontal rarely medium steep and	į.	V V V V		·		·				
steep rough clay filled with	.*	V V V V								
fracture surfaces black iron exide coated.		V V V V	נננ							
exide coaceq.		VVVV	. <u>1</u>	13.00_14.00	x		N	100	0	
		7777	-14.00							
		V V V	-14.00 -						<u> </u>	•
END OF BIH.	,		11	-						
		1								
DEPTH (M)	1546			:		:				
HOLE CASING W.R.L	ARKS		11							
15/9/91 7, 00 4, 10 3, 00 DRY			111							
18.00 8, 40 7, 50 1,10 16/9/91 7-30 8, 40 7, 50 2,50			r 11				·	}		
13.15 14.00 7.50 2.10			111	l I				1:		
			-				ă.		•	
			=							
			1 1				'			
	1	<u> </u>	111							
		-	1 1							
		:	-							
			Ē							
	Total K		Remar	ks.		ــــــــــــــــــــــــــــــــــــــ	.1	٦,	. ogge	d by
been achieved the number of blows	Sample / Test K Disturbed san	nple		· •					j. (
	Bulk sample Water sample							3	Scale	
EPTHS:All depths and reduced levels in metres	Piston (P) Tube(U) or cont to scale							1:5	50
COLUMN	S∯ Standard Peneti / Vone Yest	วยเดก เธรน						Γ	Fig.	2
W.R.L. Water level observations during boring or given on the last sheet of log.	Core recovery	signation		ga a a a sa sa sa sa sa sa sa sa sa sa sa s		THE CONTROL OF A 1	. :			-

Mowlem Construction Co. Ltd. Borehole No. BF 1											
Equipment & Methods. Retary auger 150mm dia. 1,L1,00m. Retary coring 101mm dia. 1,00-5,20m	Loca	-	NAIR	OBI BY	_ P/	 222	maa dad ahaa ahaa say aarab ee	ni kidinan kikanji. Banyana Temat di yan			
COPERATION AGENCY	Groun	id Lev	21	Coordina	les		Date	26/7/90			
Description	Reduced	regend	Depth 8. Thickness		ples/	Test	\$	Field Records	1		
	α.	3	<u>م</u> ج	Depth	Type	-	Test	RECOID	· · · · · ·		
Dark grey CLAY.		**************************************	(00.0)	G.L 1.00		в1					
			1.00	1.00 _ 1.50	4	:		TCR RQD	GRAC		
Highly weathered non intact grey 0° phonolitic AGGLOMERATE of angular phonolite fragments upto 15cm in fine grained matrix. Fractures 0° black clay filled.			(01.1) 10		ľ		NI		1 V		
0°~- Moderately weathered grey with) (1.50_3.00			3	100 33			
brewn patches phonolitic 0a AGGLOMERATE of angular compact and vericular phonolite fragments upto boulder size in fine grained matrix.) /	3.10)								
Fractures subhorizontal rough 20°-				3.00_ 4.40			6	100 35	111		
30°—				4.40_5.20			3	100 32			
		23.511	5.20	<u> </u>		· · · · · ·					
END OF BOREHOLE											
DATE TIME DEPTH (M) REMARKS						:					
25/7/90 13:00 NIL NIL DRY 18:00 3:00 1:00 1:10								,	·		
26/7/90 7.00 3.00 1.00 1.00 18.00 5.20 NIL 2.10			E	-	ļ ļ						
									•		
S.P.T: Where full 0.3 m penetration has not Sample /			Remar	ks	L	L	1	Logge			
been achieved the number of blows of the quoted penetration is given to the quoted penetration to the quoted penetration to the quoted penetration is given to the quoted penetration	sample sample						-	J. (Scale			
column V Vare T	(P) Tube(Le length band Penetro lest ecovery uglity Des	ation iest	·	2. Standard		:		Fig.	J U		

	truction Co. Ltd. Borehole No. BF 2								
Equipment & Methods. Setary auger 150mm dis- tile 0.50m. Sotary coring 101mm dis-0.50~5.00m	Loca	tion.	NAIRO	DBI BY_	PASS		Organica con part antibility. W	-	
COOPERATION AGENCY	Groun	id Lev	. E. [Coordina	tes	Date 25/7			
Description	Reduced Level	egend	Depth 2 Thickness		ples/Tes	ts	Fi	€ld	ючеська
	œ	- 1		Depth	Type No	und Taiart	7.60	ords	
Dark grey CLAY			0.70	G.L 0.50	B1	F.I.	TCR	RQD	GRAC
200	,								
o°-				0.50_2.00		6	100	29	
Moderately weathered with medium spaced fractures								_	
grey with brewn patches phonolitic AGGLOMERATE of angular vesicular and			4.30)	2.00 3.50		4	100	52	111
compact phonolite fragments 10°- upto boulder size in fine grained matrix.									
Fractures subherizontal 0° rough limonite coated.	:							-	
				3.50_ 5.00		6	100	50	
o°			5.00						
END OF BOREHOLE		. :		1.		:			
DЕРТН (M)			T-LL		: :				.
DATE TIME HOLE CASING W.R.L. REMARKS 25/1/90 7.00 0.00 NIL DRY									
118.00 5.00 NIL 2.00									
		•							
	;	٠	.11.				7		
	 		.1						
			11111						
S.P.T: Where full 0.3 m penetration has not Sample / been achieved the number of blows D Disturb	ed sam		Remari	(\$;			1 .	99ed J. () .	
(Not N value) W Water	ample sample P) Tube(U) length to	or core					Sc	ale 1:50	
Column Solven in Brackets in Geptin Solvento	nd Pernetra	tion rest		e.			ــــــــــــــــــــــــــــــــــــــ	g.	

Mowlem Construction Co. Ltd. Borehole No. BF3											
Equipment & Methods. Retary auger 150mm di-	١.	Locat		NAIR	OBI BY	_ PASS					
COOPERATION AGENCY	NAL	Groun	d Leve	1	Co ordina	les	Date 23_2	4/7/90			
Description		Reduced Level	Legend	Depth & Thickness	Sam Depth	ples /Te	sts	Field Records			
and the second s		α		0 5	OEPIN	Type No	Test	·			
Hard grey GLAY		:		(2.00)	G.L 1.00	В					
				(2	1.00 <u>-</u> 1. 4 5 1.00 <u>-</u> 2.00	D B	2 N = 54 3				
			••	2.00	2.00	1 11 1	S N = 50				
Hard brown CLAY				(00)	3.00_3.45	1 11 1	6 N=53				
HELD OLONI CENT		: 	. — .	E)	3.00_4.00		7				
					4.00 ₋ 4.45 4.00 ₋ 5.00	1 1 1	8 N = 29				
Completely weathered erange brown TUFF.			Δ, Δ Δ, Δ	5.00 5.(<u>6</u> 7),45	5.00 _ 5. 45	D	10 N = 47				
END OF BOREHOLE	. :							: -1			
	:			Herek							
								. :			
	:			أسيرا	and the second						
		:									
								. :			
been achieved the number of blows D for the quoted penetration is given B	Disturi Bulk s	comple	hple	Rema	rks	, , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , 	J. O. Scale			
Thickness given in brackets in depth column W.R. L. Water level observations during boring are given on the last sheet of log.	Stands Vane T	nd Penetr est	to scale ation less signation					Fig.			

Mowlem Cons	struction Co. Ltd. Borehole No. BF 4									
Equipment & Methods. Rotary auger 150mm di	۱۸.	ocation.	NAIR	OBI BY	PA	SS		alebate de merejak jerin, moje dan pering		
COOPERATION AGENCY	NAL 6	round Lev	el	Coordinat	2.5	30.	Date 31/7.	1/8/90		
Description	Reduced	Leyel	Depth & Thickness	Sam D¢pth	oles/ Sam	Tests		Field Records		
Soft to firm reddish brown SILTY CLAY.		X X X X X X X X X X X X X X X X X X X	(6.00)	6.L 1.00 1.00 _ 1.45 1.00 _ 2.00 2.00 _ 2.45 2.00 _ 3.00 3.00 _ 3.45 3.00 _ 4.00 4.00 _ 4.45 4.00 _ 5.00		B1 D2 : B3 D4 : B5	S 8 8 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9			
		× . × . × . × . × . × . × . × . × . × .	6.00 6.00	5.00_ 5.45 5.00_ 6.00 6.00_ 6.45 6.00_ 7.00	41	D10 B11 D12 B13	S			
Conpletely weathered orange brown TRACHYTE. (as sandy olay trace sand)		>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	الديرالييرالييرالي	7.00 _ 7.45 7.00 _ 8.00 8.00 _ 8.45 8.00 _ 9.00 9.00 _ 9.45 9.00 _ 10.00		B15 D16 B17	S 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5			
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Mowlem Construction Co. Ltd. Borehole No. BF 4											
Equipment & Methods. See Sheet 1		ition.	NAIR	ЮВІ ВУ	'_ P	ASS	,				
COOPERATION AGENCY		nd Lev	el	Coording	ites	3 (Date 0,31/7	_ 1/8 /	90		
Description	Reduced	regend	Depth 2 Thickness	San Depth		mple	s Test	Field Record			
Completely weathered orange brown TRACHYTE. (as sandy clay trace sand)		<pre>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>></pre>	(6.00)	10.00_10,45 10.00_11,00 11.00_11,45 11.00_12.45 12.00_13.45 12.00_13.45 13.00_14.00 14.00_14.45 14.00_15.00		D22 B23 D24 B25 D26 B27	\$ N=30 N=32				
Hithly weathered grey TRACHYTE.			16.00 63 16.45	16.00_16.45		D32	S N= 63		-		
END OF BOREHOLE											
column S Standard	ed samp imple sample Tube(U) length to d Fenetral	or core scale ion lest	Remark			en de servicio de la constante	and the state of t	Logge J. (Scale 1:5).		

Mowlem Construction Co. Ltd. Borehole No. TC 1											
Equipment & Methods: Pick/Shavel hand tools excavation G.L-0.80a	Local	ilon.	NAIR	OBI B'	Y_ P/	ASS		eggyegganinning annihi (annihinnihi) kin periodi (annihinnihinnihi) kin periodi (annihinnihinnihinnihinnihinnihinnihinni			
COOPERATION AGENCY	Grour	d Leve		Co ordina	tes		Date 25/7	7790			
Description	Samples/Te						Test	Field Records			
Reddish brown SILTY CLAY. Reddish brown mettled black concretionary lateritic GRAVEL.		4.,2	0.40		(7)PC	NO					
Koderately weathered altered brown fine grained TRACHYTE.		VV.V.V.	- ŏ. ŝŏ								
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Column V Vane	bed san sample (P) Tube(le length and Peneti Test uplity De	nple U)or core to scale atlon Test		k s	an'embana panya	manufacturi que		Logged by J. O. Scale 1:50 Fig.			

In near no	struction Co. Ltd. Borehole No. TC 2								→ ~·
Equipment & Methods. Pick/shovel hand too exeavation G.L-0.85	•1: n	Locat	ion.	NAIF	RÓBI B	Y., PA	\SS	4 <u>4 20 - 14 14 14 14 14 14 14 14 14 14 14 14 14 </u>	and the second s
COOPERATION AGENCY	NAL	Groun	d Lev		Coordin	ates		Date 25/7/	/90
Description		Reduced	pussa	Depth & Thickness	Sa Depth	mples/ Sam	iple _	est	Field Records
Reddish brown slity CLAY with lateritie	,		¥ x	-0.20		Type	NO		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Orange brown mettled black fine to coar lateritic GRAYEL . Water level 0.20m	<i></i> / :	!	000	0.85					
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for the quoted penetration is given (Not. N. value)	ample / T Disturbi Bulk so / Water 1 Piston(P	ed samp imple sample	ole	Remari	K 5				J. O. Scale
EPTHS:All depths and reduced levels in metres Thickness given in brackets in depth column W.R.L: Water level observations during boring are given on the last sheet of log.	Core rec	d Penetrol	lion Hest		CHARLES TO SECURITY OF THE SEC	·	*******************************	oorogojojo stavo	1:50 Fig.

Mowlem Constr	uctio	on Co.	Ltd.	Borehol Sheet 1		rc 3
Equipment & Methods. Pick/Shevel hand teels excavation G.L.C.70m	Locat	ion. NAIR	OBI BY	_PASS		
COOPERATION AGENCY	Groun	d Level	Coord	Inates	Date 257	77.90
Description	Reduced Level	Legend Depth	S Depth	amples/Tes	7	Field Records
Orango brown/black nodular lateritic	1 - 1	0,0,0 A	5	Type No	, rest	:
GRAYEL. Boderately weathered light grey agglomeratic TUFF of subangular greenish grey punice fragments upto 5cm in fine grained matrix.	:	0.7	0			
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been achieved the number of blows D Disturber to the quoted penetration is given B Bulk	somole	ple :	arks			J. O. Scale
column of Albania Brackets in orbin 128 Stone	(P) Tube(U le length to ard Penetra Test ecovery uglily Desi	IION HEST				1:50 Fig.
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Mowlem Constru	uctio	on	Co. I	Ltd.	Boret Sheet		No. of 1	TC 4
Equipment & Methods: Pick/Shevel hand tools excavation Gal-1,20m	Locat		NAIRC	BI B	Y PA	SS	Pija (14) kad panda si ing	er in et auszar ett monten kalkuszak kina ett in 1904 (1904)
COOPERATION AGENCY		d Lev		Coordi	nates		Date 25/	7/90
Description	Reduced Level	Legend	Depth 4. Thickness	Sc Depth	San Type	mple	Test	Field Records
Reddish brown SILTY CLAY with lateritic gravel.		*	0.50	-Pich-minelinching comm	1770	-	-	
Mederately weathered light brown/grey agglomeratic TUFF.		À : <	1, 20					
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column V Vane Te	ed sam ample sample P)Tube(U length to rd Penetro	ple) or core) scale ition Test	Remar	k S				Logged by J. O. Scale 1:50 Fig.

Mowlem Consti	ructi	on	Co.	Ltd.	Bore Sheet		No. of 1	TC 5
Equipment & Methods. Pick/Shevel hand tools excavation G.L-1.10a	Loca	tion.	NAIRC	BI B	Y_ PAS	55		
COOPERATION AGENCY	Grou	nd Lev	el	Coordi	nates	irec a Brown a per anna a	Date 25/	7/90
Description	Reduced	egend	Depth & Thickness		amples Sa	Test		Field Records
Reddish brown SILTY CLAY.	α	X . x	1	Depth		No	Test	
As above with tuff cobbles.		200 00	0.60					
Mederately weathered light brown agglemeratic TUFF.	-	9:::4	E1.10					
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been achieved the number of blows for the quoted penetration is given (Not N value) EPTHS:All depths and reduced levels in metres Thickness given in brackets in depth column	r sample n(P)Tube(V) ple length to have Penetra	ple)or core scale tion Test	Remark	*******************************		OV TVAPNOSTICO TO		Logged by J. O. Scale 1:50 Fig.

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Description Descr	excavation G.L-1.70m	Local	lion.	NAIRO	DBI BY	_ PAS	S	ماند دو دو دو دو دو دو دو دو دو دو دو دو دو	may may action in the section of the
S.P.T. Where full 0:3 m penetration has not been achieved the number of blows for the quoted penetration is given for the quoted penetration is given (Not N value) SETINSAII depths and resourced levels in meters. S.P.T. Where full 0:3 m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value) SETINSAII depths and resourced levels in meters. S.P.T. Where full 0:3 m penetration has not been achieved the number of blows for the quoted penetration is given whether sample were sample. Wester sample were sample were sample achieved as the penetration of the penetration		***************************************	id Lev		Coord	nates			90
S.P.T. Where full 0:3 m penetration has not been achieved the number of blows for the quoted penetration is given been achieved the number of blows for the quoted penetration is given (Not N value) SETINSAII depths and resouced levels in metra: **X	Description	Reduced	egend	Jepth & hickness		Sai	nple		
S.P.T.: Where full 0.3 m penetration has not been achieved the number of blows for the quoted penetration is given for the quoted penetration is given (Not N value) SEPTHSAIL depths and resourced levels in metrics Sample Test Ksy Disturbed sample W Water sample W Water sample Scale Petano(Pil/Stable depths and resourced levels in metrics Petano(Pil/Stable depths and resou			<u> </u>			Туре	No		
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S.P.T: Where full 0.3 m penetration has not been achieved the number of blows for the quoted penetration is given by the sample of the property of the sample of the property of the sample of the property of the sample of the property of t			× × ×	1. 70					
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Piston (P) Tube(U) or core Piston (P) Tube(U) or core 1:50	been achieved the number of blows or the quoted penetration is given B Bulk s	bed sam cample	ly. ple	Remar	ks		•	<u> </u>	
Thickness given in brackets in depth column V vane Test V vane Test Core recovery are given on the last sheet of log. Thickness given in brackets in depth spend of the property of the p	Piston Sample Thickness given in brackets in depth. S. Stando Column	(P) Tube(U e length to vol Penetro	ation fest						1:50

Equipment & Methods Pick/Shavel hand tests Securetian \$1.02,000 Corried out for :JAPAN INTERNATIONAL COOPERATION AGENCY Description Page Securetian Securetian Page Page P	Mowlem Constru	ucti	on (Co. l	_td.	Borehole Sheet 1	2 No. T	C 7.
Description Descr	Equipment & Methods. Pick/Shevel hand tools excavation G.L-2.00m	L.oca		NAIRC	BI BY	_PASS	ing katalana kan maga mananan garabada	A. accomorphism (A. A.
Top soil to 0.25m. Reddish brown SILTY CLAY. X X X X X X X X X X X X X X X X X X X	COOPERATION AGENCY		NA	· .	Coordin	iates		77 90
Top soil to 0.25m. Reddish brown SILTY CLAY. X X X X X X X X X X X X X X X X X X X	Daniel Min	D	٦	٦ ج	\$o	mples /Tes	ts	Field
Top soil to 0.25m. Reddish brown SILTY CLAY. X X X X X X X X X X X X X X X X X X X	DESCRIPTION	Re dy	•	Thick	Depth			Records
Reddish brown SILTY CLAY. X X X X X X X X X X X X X X X X X X X			· è	-				
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been achieved the number of blows for the quoted penetration is given (Not N value) D Disturbed sample B Bulk sample W Water sample W Water sample	been achieved the number of blows D Distu for the quoted penetration is given B Bulk	rbed sample	nple		ks			J. O. Scale 1:50
DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth column W.R.L: Water level observations during boring are given on the lest sheet of log. DEPTHS:All depths and reduced levels in metres sample length to scale sample length to scale So Standard Penetration Test V Vane Test Core recovery Core recovery ROD A-92	column Y Vane	Test recovery Ougliy De	signation	1			national Makes Sealey (1888)	····

Mowlem Constr	uctio	on Co.	Ltd. Bo	rehole No.	
Equipment & Methods. pick/Shevel hand teels excavation G.L-0.70m	Loca	Marie Control of the Party of t	ada _{se} tima di Pari Angeles Angeles mandada ang panggang dan ang dan ang dan ang manggang ang dan ang dan ang ma :	PASS	rdycared in math following ARAD 1844 (In Phillips 1944)
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COOPERATION AGENCY					77790
Description	2 - E	ס ב	Sampl	es /Tests	Field
Description	Reduced	Legend Depth L	Donath	Sample Test	Records
Top soil to 0.15m. Grey SILTY CLAY.					
Mederately weathered light grey with dark grey punice inclusions agglementatic TUFF.		Ø: 4.3 ⟨ E 0.70 E			
END OF TRIAL PIT					
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been achieved the number of blows for the quoted penetration is given (Not N value) DEPTHS:All depths and reduced levels in metres	/Test Marbed sail sample or sample on(P)Tube(ple length	npie U)or core to scale	irks		Logged by J.O. Scale 1:50
Inickness given in brackets in deptil 50 Stan	dand Penet	ration ies	or an a security a security and a security control		Fig.

Mowlem Constru	uctio	on	Co. l	_td.	Boret Sheet		No. T	C 9
Equipment & Methods. Pick/Shevel hand teels excevation G.L. 1.40m	Local	lion.	NAIR	OBL	BY P	Δ S S		144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 14
COLLIEG OUT TOT : JAPAN INTERNATIONAL COOPERATION AGENCY	Grour	nd Lev	- Polithic Annua	Coordin		<u> </u>	Date	7/90
Description	Reduced Level	egend	Depth & Thickness		mples/	Tests		Field Records
Top soil to 0.2m. Grey humic SILTY CLAY.	ď	× ×		Depth	Type		Tesi	
Reddish brown SILTY CLAY with gravel.		× ° ×	0.40					
Brown in situ tuff GRAVEL.	,	\$ 600 \$ 400 \$ 400 \$ 100 \$ 100	- 1.10 - 1.40					
Highly weathered non-intect brown agglemeratic TUFF.								
END OF TRIAL PIT	:							
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S.P.T: Where full 0.3 m penetration has not been achieved the number of blows to the quoted penetration is given B Bulk in (Not N value)	bed son sample	aple	Remar	ks				J. O. Scale
DEPTHS:All depths and reduced levels in metres Piston sample Thickness given in brackets in depth Standon column	(P)Tube(t le_length t and Peneth	J) or core to scale ation Tes	1					1:50 Fig.

Mowlem Con	stru	ıcti	วท	Co. I	_td.	Boret Sheet		No. T	C 10
Equipment & Methods. Pick/Shevel hand tool excavation 6.1.00.50m	15	Local	ion.	VAIRO!		.PAS	***************************************		and the same of th
Carried out for JAPAN INTERNATION COOPERATION AGENCY	NAL.	Groun	id Levi	tl Coordinates Date					7/90
Description		Reduced Level	egend	Depth & Thickness	Şa	Samples/Tests			Field
		, , ,	5a7	D E	Depth	Sa Type	mple No	Test	Records
Top soil to 0.1m. Light grey CLAY.		·		0.50				·	
Moderately weathered pyroclastic TUFF with greenish grey pumice inclusions upto 5cm.									
END OF TRIAL PIT									
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been achieved the number of blows for the quoted penetration is given (Not N value) DEPTHS:All depths and reduced levels in metres	Disturt Bulk s Water Piston(sample Stondo Vane Te	sample P) Tube(U length to rd Penetro	ple Dorcore Secule Ition Test	Remar	k S				Logged by J. O. Scale 1:50 Fig.

Mowlem Constru	uctio	on	Co. I	Ltd. s	oret heel		No. 7	C 11
Equipment & Methods. Fick/Shavel hand tools excavation G.L-2.Com	Loca	tion.	NAIR	OBI BY	/ P/	488	n, n mar i Johnson e g	
COUPERATION AGENCY		id Lev		Co ordina	17190			
Description	Reduced	Reduced Level Legend Depth L			ples/	· · · · · · · · · · · · · · · · · · ·	5	Field
	2 3			Depth	Sai Type		Test	Records
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Top soil to 0.2m.		×., ×						
Reddish brown SILTY CLAY with gravel.	•	× . ×						
		<u>× . ×</u>	E					
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S.P.T: Where full 0.3 m penetration has not been achieved the number of blows 0 Distur	Test K	ey. iple	Remar	ks				Logged by
for the quoted penetration is given B Bulk	sample sample	,	:					Scale
DEPTHS:All depths and reduced levels in metres samp Thickness given in brackets in depth	(P) Tube(l le length t and Penetr	ujor core o scale ation Tesi	-		• •		*	1:50 Fig.
Column V Vone	lest ecovery uplify Des							rig.

Mowlem Constru	uctio	on (Co. l	_td. s	3oreh iheet		No. T 1 1	C 12
Equipment & Methods Pick/Shevel hand teels excavation Gol-3-70m	Loca		V AIRO	BI BY.	. PAS	S	FC-1	Per Carlo Free Procedure manufacture de Carlo VIII de Carlo Manufacture de Carlo VIII
COOPERATION AGENCY	Grour	d Leve	1	Coordina	ntes	carechala Autoper su	Date 25/7	/90
Description	Reduced	ğ	2	San	nples	Tests		Field
	Reduce	Legend	Depth & Thickness	Depth	San Type	nple No	Test	Records
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Top soil to 0.1m.		. <u>``</u> .			1			
Reddish brown SILTY CLAY.		<u>×</u> .	-					1
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Reddish brown SILTY CLAY		X 0 X 0	3.20					
with gravel.	}	X 0 X C	3.70				1	
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S.P.T: Where full 0.3 m penetration has not been achieved the number of blows D Distur	bed san	ey. nple	Remar	k S				Logged by J. O.
for the quoted penetration is given B Bulk	- samale	(2)						Scale
DEPTHS:All depths and reduced levels in metres Piston Samp Thickness given in brackets in depth 56 Stand	(P) Tube(i le length	ujor core to scule ation lect					•	1:50
column IV Vane	rest rest recovery uglify De:						•	Fig.
W.R.L. Water level observations during boring C fore are given on the last sheet of log.	A-97	CONTRACTOR OF THE REAL PROPERTY.		***				

Mowlem Constru	ucti	on	Co.		Borel Sheet			TC 13
Equipment & Methods Pick/Shevel hand tools excavation G.L. 1.00s	Loca		NAIRC	BI BY	ΡΔ	55	ion and an annual contract of the	nder vallet der German von State Date in der der der Vergen ung vergen der der der Vergen und vergen der der d
corried out for : JAPAN INTERNATIONAL COOPERATION AGENCY	Grou	nd Lev	el	Co ordinates Date				7/90
Description	Reduced Level	Legend	Depth & Thickness	Sa	mples		5	Field
	8 3	روع	o F	Depth	Sa Type	mple No	Test	Records
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		<u>× . ×</u>						
		<u>× . ×</u>						
Top soil to 0.2m.	· ·	<u>×</u> × <u>×</u> .						
Reddish brown SILTY CLAY. With black ferruginous spets		××	E.				:	
in lower zone 2.20-4.00m.	:	<u>× . ×</u>	E					:
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S.P.T: Where full 0.3 m penetration has not Sample /	Tare W-		Remar		<u> </u>	<u>L</u>		Logged by
S.P.T: Where full 0.3 m penetration has not Sample!/ been achieved the number of blows for the quoted penetration is given Bobuk's	oed sam		·	* >				J. O.
/ Nat N)or core						Scale
Column V Vone To	nd Penetro est∶	ition iest					•	1:50 Fig.
	wyery gily Desi	ignation			Ohui ir ariakir			

been achieved the number of blows for the quoted penetration is given (Not N value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth column	Mowlem Construction Co. Ltd. Borehole No. TC 14										
Carried out for: JAPAN INTERNATIONAL COOPERATION AGENCY Description Type No Test Records Field Records Field Records Field Records Field Records Description Descripti	Equipment & Methods. Pick/Shevel hand teels excavation G.L.C.70m	Local	tion.	NAIR	108I B	Y., PA	155	***************************************			
Description Page P		Grour	od Leve	el	· · · · · · · · · · · · · · · · · · ·				7790		
Top soil to 0.05n. Grey SILTY CLAY (Black cotton soil). Orange brown/black lateritic SRAYEL. END OF TRIAL. PIT S.P.T. Where full 02m prinetration has not been achieved the number of blows for the quoted penetration is given been soft to the sound of		leduced Levei	egend	Jepth E hickness		Sai	mple		Field		
S.P.T. Where full D2m penetration has not been achieved (he number of blows for the quoted penetration is given by the concellers in maps in Petator (Not 1) would be the concellers in maps in Petator (Not 1) would be the concellers in maps in Petator (Not 1) would be the concellers in maps in Petator (Not 1) would be the concellers in maps in Petator (Not 1) would be the concellers in maps in Petator (Not 1) would be the concellers in maps in Petator (Not 1) would be the concellers in the p	Top soil to 0.05m. Grev SILTY CLAY (Black cotton soil).		×	-		Type	No	1631			
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column	been achieved the number of blows tor the quoted penetration is given B Bulk s	bed sam iample sample	pl€	Remar	ks				Scale		
W.R.L.: Water level observations during boring C core recovery are given on the last sheet of log. A-99	column V Vone 7	est covery polity des	I ION HESU		entropper of the state of the s	namento de descripción de la constanta de la c			<u></u>		

Mowlem Constru	The second secon	Day of the last of	ò. 1	Ltd.	Borel Sheet			TC 15
Equipment & Methods. Pick/Shevel hand tools excevation G.L-1.00s	Locati		IAIRC	BI BY	'_ PAS	SS		
COURTER OUT TOT : JAPAN INTERNATIONAL COOPERATION AGENCY		Level		Coord			Date 27/6	3790
Description	Reduced	Legend	Oeptn & Thickness	S Depth	amples Sa Type	mple	i Test	Field Records
Top soil to 0.05m. Reddish brown SILTY CLAY.	×	× × × × × × × × × × × × × × × × × × ×		and an an an an an an an an an an an an an		NO		
	2	× .	4.00					
END OF TRIAL PIT S.P.T: Where full 0.3 m penetration has not Sample /	Test Key		Remar	(\$				Logged by
been achieved the number of blows for the quoted penetration is given (Not N value) EPTHS:All depths and reduced levels in metres Thickness given in brackets in depth	oed sampl ample	or core	Remar)	(\$	· ·	ферсови <u>нер</u> фски	H.MaydyondacevsAc	Logged by J. O. Scale 1:50 Fig.

uipment & Methods: Pick/Shevel hand tools excavation G.L-2,00m	Loca	1	-	ві ву	PAS	5		الكالمان والمستوان والمان المستواد
OPERATION AGENCY		nd Leve		Coordin	ates		Date 27/7	790
Description	Reduced Leyel Legend Depth Depth Same		mples/	Tests		Field		
	Reduce	regend	O T	Depth	San Type		est	Records
		<u>X. X</u>						
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Top soil to 0.3m.								
Reddish brown SILTY CLAY.		^ ·	Ī 1.1				.	
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		<u>×</u> × ×						
	_	×	2.00					
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heen achieved the number of blows D DISTU	/Test h	mple		*** *				J. O
for the quoted penetration is given B Bulk	sample				÷			Scale
PTHS:All depths and reduced levels in metres Pisto	n(P)Tubel ole length	(U) or core to scale						1.5
column V Vone	test	ration res	٦					Fig.
R.L. Water level observations during boring C Core are given on the last sheet of log.	recovery	signation						1

Mowlem Constr	ucti	on	Co.	Ltd.	Borei Sheet			TC 17
Equipment & Methods. Pick/Shevel hand teels excavation G.L-3-70s	Loca	tion.	NAIR	OBI BY	L PA	SS	· · · · · · · · · · · · · · · · · · ·	
COOPERATION AGENCY	Groui	nd Lev	el	Coordin	***************************************		Date 27/7	7790
Description	Reduced	egend.	Depth 8. Thickness	5a	mples	Tests		Field
	Red		Thic	Depth	Sa: Type	mple No	Test	Records
Reddish brown SILTY CLAY. Highly weathered altered brown fine and medium grained TUFF with subangular punice inclusions upto 2cm, rare lava upto 1cm. END OF TRIAL PIT		X	000 3.3.3. 3.3.70					
been achieved the number of blows for the quoted penetration is given (Not N value) EPTHS:All depths and reduced levels in metres Piston sample Thickness given in brackets in depth column	sample (P) Tube(U e length to vd Penetra	ple) or core) scale ition Test	Remari	15				J.O. Scale 1:50

Mowlem Constru	uctio	on (Co. 1	_td. s		ole No. 1	TC 18
Equipment & Methods. Pick/Shevel hand tools excevation G.L-2,250	Loca		NAIRÓ	BI BY_	PASS)	
COOPERATION AGENCY	Groun	nd Leve		Coordin	otes	0ate 271	7/90
Description	Reduced	Legend	Depth 8. Thickness	Samples Tests Depth Sample			Field Records
Top soil to 0.3m. Reddish brown SILTY CLAY.		x x x x x x x x x x x x x x x x x x x	2.25		Туре	No Test	
END OF TRIAL PIT		-		. *			
			periodicipal perio				
been achieved the number of blows for the quoted penetration is given (Not N value) DEPTHS:All depths and reduced levels in metres amp Thickness given in brackets in depth of the column.	unlify Des	nple U)or core io scale ation l'est	Remar	k S	പര ഇവ്യമാവ	gwydd Erlyngwyd agailoc a	J. O. Scale 1:50 Fig.

Mowlem Constru	uctio	on i	Co. l		oreho	ole No.	C 19·
Equipment & Methods. Pick/Shovel hand tools excavation 6.L-2.10m	Local		NAIRC	BI BY.	_ PAS	Š	ummus tuuri A.OPOPAM (A.A.A.D.C.C.A.A.C.S.C.A.
Corried out for : JAPAN INTERNATIONAL COOPERATION AGENCY	Grour	d Leve	el	Coordina	tes	Date 27/	7/90
Description	Reduced Lavel	gud	Depth & Thickness	Sam	Samples /Tests F		Field
	प्तक्त एक	Legend	Thic	Depth	Samp Type I		Records
Top soil to 0.3m. Reddish brown SILTY CLAY with black spets in bottom zone.		× × × × × × × × × × × × × × × × × × ×	2.10			,	
END OF TRIAL PIT				7			
			111111111111111111111111111111111111111				
S.P.T: Where full D'3m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value) DEPTHS:All depths and reduced levels in metres thickness given in brackets in depth column W.R.L: Water level observations during boring are given on the lest sheet of log.	bed san sample sample (P)Tube(I le length I ard Penetn	iple J)orcore oscale atlon l'est	Remar	k\$			Logged by J.O. Scale 1:50 Fig.

Mowlem Constru	uctio	on (Co. L		Boreh heet			C 20
Equipment & Methods: Pick/Shevel hand:tools excevation G.L-2.20m	Local		NAIRO	Bl BY.	- PAS	SS		
COOPERATION AGENCY	Grour	d Leve		Coording	ites		Date 27/7	7790
Description	Reduced Level	Legend	Depth & Thickness	********	ples/ San			Field Records
	œ		ŏ £	Depth	Туре		Test	
Top soil to 0.25m. Reddish brown SILTY CLAY with black ferruginous spets in bottom zone.		× , × , × , × , × , × , × , × , × , × ,						
		× . × × .	2. 20	· · · · · · · · · · · · · · · · · · ·		:		
END OF TRIAL PIT				·				
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			l the state of	;				
			dini					
					:			
	17		Remar	**				Logged by
been achieved the number of blows 0 Distur- tor, the quoted penetration is given 8 Bulk (Not N value) W Water DEPTHS:All depths and reduced levels in metres	r sample (P) Tube(I de lenath I	nple U)orcore		79 a			·	J.O. Scale 1:50
column V. Vane	band Penetr	ation itse	:	s. Newsterstaterstates of the Sephelic September 1.		TPATALOG		Fig.

Mowlem Constru	uctio	on	Co. 1	_td.	Boret Sheet		No. T	C 21
Equipment & Methods. Pick/Shevel hand tools excavation 6.1-1-90m	Loca	tion.	NAIRC	BI BY	_ PAS	 5S	i oʻra <u>- no siqueti paringi da er sa</u> gi	Andreas and Andreas and Andreas and Andreas Andreas Andreas Andreas Andreas Andreas Andreas Andreas Andreas An
COOPERATION AGENCY	Gr our	nd Lev		Coordir	ates	noforebroads (pt 4) Libr	Date 27/7	7790
Description	Reduced	g	Depth & Thickness	\$a	mples	/Test	,	Field
	8 3	Legend	Dep g Thic	Depth	Sa Type	mple No	Test	Records
		× ×						
Top soil to 0.3n.		<u>* . x</u>	Ε					
Reddish brown SILTY CLAY with black ferruginous		× ×	<u> </u>					
impregnation in bottom zone.		. <u>×</u> .						
		. * ;	E					
			1.90	· · · · · · · · · · · · · · · · · · ·				
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END OF TRIAL PIT			E	i				
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S.P.T. Where full 0:3 m penetration has not been achieved the number of blows D Distur			Remar	ks				Logged by
for the quoted penetration is given B Bulk	sampie នៃសាកាស្រី	,						Scale
DEPTHS:All depths and reduced levels in metres Piston	(P) lubel le senath	n) or core			٠.			1:50
Thickness given in brackets in depth Stand	ard Penetr Test	ration less				•		Fig.
W.R.L. Water level observations during boring C Core are given on the last sheet of log.	nolily De	signation				_		

Mowlem Constru	uctio	on	Co.	Ltd.		ole No.] 1 of 1	C 22
Equipment & Methods. Pick/Shevel hand teels excevation G.L-3.50m	Locat	ion.	NAIR	OBI	BY_P	455	Ald Simmed Principped State Andread on Company Comp
COOPERATION AGENCY		d Lev) -13-100	Coordi	nates	Date 27/7	7790
Description	Reduced Level	Legend	Depth 8. Thickness	S: Depth	Sam Type	ple	Field Records
Top soil to Օ.Կո. Reddish brown SILTY CLAY.		× × × × × × × × × × × × × × × × × × ×	The second secon				
	-	× × × × × × × × × × × × × × × × × × ×	ulmalnih				
Completely weathered light grey with green tinge altered fine grained TRACHYTE.	·	V V V V V V	3.70			-	
END OF TRIAL PIT							
			بيواليريال				
	,						
			uluuluulu				
column Y Vane Te	ed sample sample P) Tube (U) tength to	ple)or core scale tion Test	Remar	k \$			Logged by J. O. Scale 1:50 Fig.

Mowlem Constru	uctio	on	Co.	Ltd.	Borel Sheet		No. 1	C 23
Equipment & Methods. Piek/Shevel hand teele excevation G.L2.80a	Local	tion.	NAIR	OBI B	Y _ P/	SS	<u> </u>	and an extendion and a state of the state of
COOPERATION AGENCY	***************************************	id Lev		Coord	Inates		Date 27/	7/90
Description	Reduced	Legend	Depth & Thickness	S Depth		mple	Test	Field Records
Completely weathered light grey fine grained perphyritic TRACHYTE. END OF TRIAL PIT		X X X X X X X X X X X X X X X X X X X			Туре	No		
column V Vane To	ced sam cample sample (P) Tube(U clength to ad Penetra	ple)or core scale tion l'est gnation	Remar	k S	CONCURT PROPRIAGEOUS CO	97 788 J ankiniskyl	o de la constantina della cons	Logged by J.O. Scale 1:50 Fig.

Mowlem Constru	uctio	on	Co. I	Ltd.	Borei Sheet		No. T	C 24
Equipment & Methods. Pick/Shevel hand tools excevation G.L-2.10s	Loca	lion.	NAIR	OBI BY	/_ PA	SS		
COOPERATION AGENCY	Groun	nd Lev		Coordin	ates		Date 27/7	7/90
Description	Reduced	Legend	Depth & Thickness	Sa	Samples / Tests			Field
	# J	××	Thi	Depth	Type		Test	Records
		^ . ^ × ×						
Top soil to 0.25m. Reddish brown SILTY CLAY.		. × . ×						
		<u> </u>						
		. <u>×</u> .	2.10					
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END OF TRIAL PIT								
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arta '. Maria da			<u> </u>					
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S.P.T: Where full 0.3 m penetration has not been achieved the number of blows for the quoted penetration is given B Bulk s	bed sam		R∉mar	K S			•	Logged by J.O.
while mislantes W Water		i)or cort					•	Scale 1:50
column brackets in depth 54 Standa	rd Penetro est	ation less						Fig.
W.R.L. Water level observations during boring C Core in are given on the last sheet of log.	polity Des	ignation	A A HE SERVICE AND A SERVICE A					

Mowlem Const	ructi	on C	O.	Ltd.	3orel		No.	TC 25
Equipment & Methods. Pick/Shevel hand tools excevation G.L.1.20x	Loca	tion.	AIRC	and the second s	- PAS	er-tra-fination	CONTRACTOR OF THE PARTY OF THE	NARYALAH ARAMANAN PERBANASAN PERB
Carried out for :JAPAN INTERNATIONA	L Grou	nd Level	******	Cojordina		33	Date	en azalan en ez es errenten z aegasa
COOPERATION AGENCY	**				******** ****************************		27/	7/90
Description	Reduced	egend	& Thickness	San	nples		5	Field
	, y	وي ا	Thic	Depth	Sai Type	nple No	Test	Records
Colluvial deposit to 0.4m. Reddish brown SILTY CLAY.		×.×. ×.×.						
		× × ×	1.20					
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END OF TRIAL PIT		1						!
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		L_E				:	<u> </u>	
been achieved the number of blows. D Dist for the quoted penetration is given. B But	e/Test Ke turbed som k sample		(emar	¢ š				J.O.
(Not N value) EPTHS:All depths and reduced levels in metres Pist san	ter sample on (P) Tube(U nple length to ndard Penetro))or core						1:50
Thickness given in brackets in depth So Star column V. Van W.R. I. Water level observations duding boring C. Cor	ndand Penetro e Test e recovery k Ouglity Des	ation Testi						Fig.
W.R.L: Water level observations during boring C Cor- are given on the lest sheet of log.	k Ouglity Des	ignation						

Equipment & Methods - Pick/Baved hard tasts secretarian factorism full-time for the global part of the globa	Mowlem Constru	uctio	on	Co. I		Boret Sheet		No. 1	C 26
COPERATION AGENCY Description	Equipment & Methods. Pick/Shevel hand tools excavation Gulatofon	Locat	ion.	NAIR	OBI E	3Y _ P	ASS	**************************************	The second second second second second second second second second second second second second second second se
Description Body Second		an Company of the Company	d Lev					Date	7 90
Lipsk brown of SUTY CLAY Control of CLUT CLAY Control of CLUT CLAY Control of Clut CLAY Control of Clut Clay	Description	Reduced Level	Legend	Depth E Thickness		Sar	nple		
S.P.T.: Where full 0.3 m penetrallon has not been achieved the number of blowe for the quoted penetration is given for Not N value) SEPTHSAIL depths and recovered tweste in meters of thickness given in brackets in depth column Thickness given in brackets in depth column	Light brown GHAVEL of trachyte fragments in silty clay matrix (fill). Top soil		0.000	0.20					
S.P.T.: Where full D-3 m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value) EPTHS.All depths and recoved levels in metres whichness given in brackets in depth column	Reddish brown SILTY CLAY.		^ . ^ . <u>*</u> . * . *						
S.P.T.: Where full 0:3m penetration has not been achieved the number of blows for the quoted penetration is given (Not: N value) DEPTHSAII depths and reaced levels in metre? Fig. Stondard Penetration less year. Youn Test Fig. Fig. Logged by Disturbed sample B Bulk sample Weter sample Scale Fig. Scale 1:50 Fig.		_	хх	[1. 40]					
been achieved the number of blows for the quoted penetration is given. (Not. N. value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth cotumn DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Cotumn Disturbed sample Bulk sample Water sample Piston(P) Tube(U) or core sample length to scale So Standard Penetration Test Vane Test Fig.	END OF TRIAL PIT							·	
been achieved the number of blows for the quoted penetration is given. (Not. N. value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth cotumn DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Cotumn Disturbed sample Bulk sample Water sample Piston(P) Tube(U) or core sample length to scale So Standard Penetration Test Vane Test Fig.				11111					
been achieved the number of blows for the quoted penetration is given. (Not. N. value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth cotumn DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Cotumn Disturbed sample Bulk sample Water sample Piston(P) Tube(U) or core sample length to scale So Standard Penetration Test Vane Test Fig.				دايدان					
been achieved the number of blows for the quoted penetration is given. (Not. N. value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth cotumn DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Cotumn Disturbed sample Bulk sample Water sample Piston(P) Tube(U) or core sample length to scale So Standard Penetration Test Vane Test Fig.									
been achieved the number of blows for the quoted penetration is given. (Not. N. value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth cotumn DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Cotumn Disturbed sample Bulk sample Water sample Piston(P) Tube(U) or core sample length to scale So Standard Penetration Test Vane Test Fig.									
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been achieved the number of blows for the quoted penetration is given. (Not. N. value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth cotumn DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Cotumn Disturbed sample Bulk sample Water sample Piston(P) Tube(U) or core sample length to scale So Standard Penetration Test Vane Test Fig.		:							
been achieved the number of blows for the quoted penetration is given. (Not. N. value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth cotumn DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Cotumn Disturbed sample Bulk sample Water sample Piston(P) Tube(U) or core sample length to scale So Standard Penetration Test Vane Test Fig.			:						
been achieved the number of blows for the quoted penetration is given. (Not. N. value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth cotumn DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Cotumn Disturbed sample Bulk sample Water sample Piston(P) Tube(U) or core sample length to scale So Standard Penetration Test Vane Test Fig.									
been achieved the number of blows for the quoted penetration is given. (Not. N. value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth cotumn DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Cotumn Disturbed sample Bulk sample Water sample Piston(P) Tube(U) or core sample length to scale So Standard Penetration Test Vane Test Fig.									
	been achieved the number of blows for the quoted penetration is given. (Not: N value) DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Column	oed sample sample P) Tube(U) Length to vd Penetra est	ple)or core scale tion Test		x5		• .		J.O. Scale 1:50

Mowlem Constru	uctio	on (Co. l	_td.	Boret Sheet		Vo. TC	27
Equipment & Methods: Plek/Shavel hand tools excevation Gal-1.10a	Local		NAIR	DBI E	Y_ PA	SS		
COOPERATION AGENCY	Grour	d Leve		Coordi	nates		Date 2717.	190
Description	Reduced	Legend	Depth & Thickness	Septh.	amples /	est	Field Records	
In silty clay matrix. Reddish brown with grey patches SILTY CLAY with root fibres (fill). Reddish brown SILTY CLAY.		× × × × × × × × × × × × × × × × × × ×	0.30 0.80		Type	No		
END OF TRIAL PIT			ender ender					
			,					
								·
(Not N value) W Water DEPTHS:All depths and reduced levels in metres Samp Thickness given in brackets in depth Section Samp	bed san sample sample (P) Tube(I le length I ord Penetr	u) or core to scale ation Test	Remar	k s	samen programme and the same and			Logged by J. O. Scale 1:50 Fig.

Mowlem Constru	uctio	ón	Co. I	_td. s	Borel Theet		No. T	C 28
Equipment & Methods. Pick/Shevel hand tools excevation 6.1-1.10m	Local	ion.	NAIRC	BI BY	_ PA	SS	A	PORTUGUES SAME A PROPERTY CONTRACTOR AND CONTRACTOR CON
Carried out for : JAPAN INTERNATIONAL COOPERATION AGENCY	Groun	d Leve		Coording	ates	7/90		
Description	Reduced Level	Legend	Depth 8. Thickness	San		Test:	5	Field Records
Brown gravelly SILTY CLAY, occasional trachyte cobbles. Reddish brown SILTY CLAY with some	Re	X X	0.30 -0.50	Depth	Type		Yest	
fine gravel (fill). Reddish brown SILTY CLAY (fill).	· :	× . × .					:	·
			1, 10					
END OF TRIAL PIT		·	1 1 1 1 1 1				÷	
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	:	,						
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S.P.T: Where full 0.3 m penetration has not Sample / Description to the number of blows for the quoted penetration is given Bulk s	ed sam	ry. ple	Remarl	k S	<u>l'</u>	<u> </u>	<u>1</u>	Logged by J. O.
(Not N value) W Water Piston(Samole Samo	e a male	or core	•					1:50
I Columb IV Vant II	est covery igjily Des	ignation	NAME OF THE OWNER, WHEN	wich likt Gragolik de weit februar	TO SEE SE SE SE SE SE SE SE SE SE SE SE SE	manacanastrija če	The second second second second second second second second second second second second second second second se	Fig.

Mowlem Constru	ucti	on	Co.	Ltd.	3orel	nole 1	No. o1 1	TC 29
Equipment & Hethods. Pick/Shevel hand tools excavation GoL-6.00m	Loca	tion.	NAIR	OBI BY	/_ PA	SS	T de la Contaction de la Contaction de la Cont e	nte discount de l'ambignime partir, ce a suivaire que le que en manie
COOPERATION AGENCY	Grou	id Lev	et	Coording	3tes		Date 27/	7/90
Description	Reduced	Legend	Death g Thickness	San	nples		5	Field
	å	×	οĘ	Depth	Type	nple No	Test	Records
		^ . <u>^</u> . . <u>*</u> .						
		<u>× .×</u> . × .						
Top soil to 0.3m. Reddish brown SILTY CLAY.		<u>*.*</u> . <u>*</u> . *.*						
		×. × . × ×						
		<u>×</u> × <u>×</u> .					:	
	·	×. × ×. × ×. ×						
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END OF TRIAL PIT								
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S.P.T: Where full 0:3 m penetration has not Sample / 1	est Ke	,	Remark	(S				Logged by
been achieved the number of blows or the quoted penetration is given B Bulk so	ed samp imple sample	ole						J. O. Scale
EPTHS:All depths and reduced levels in metres sample. Thickness given in brackets in depth column	st	ion less					*.	1: 50 Fig.
W.R.L. Water level observations during boring C Core rec are given on the last sheet of log.	overy plity Desig	nation						

Mowlem Constru	uctio	on (Co. 1	_td. s	oret heet	ole 1	No.	rc 30
Equipment & Methods Pick/Shevel hand tools excevation S.L-1.00m	Loca	tion.	NAIRO		. PAS			
COOPERATION AGENCY	Groui	id Leve	de transcriptor no.	Co ordino	ites		Date 271	7 / 90
Description	Reduced Level	Legend	Depth & Thickness	Son	pies/	Test		Field
	Red	6 J	T D	Depth	Sai Type	nple No	Test	Records
Top soil to 0.3m. Reddish brown SILTY CLAY.		× × × × × × × × × × × × × × × × × × ×				1		
END OF TRIAL PIT			1.00				-	
			leculatu					
	,							
been achieved the number of blows for the quoted penetration is given (Not N value) DEPTHS:All depths and reduced levels in metres amportant the property of the penetration is given by the penetrat	r sample (P) Tube(He length bird Peneti	nple U)or core to scale ration Test	1	ks				Logged by J. O. Scale 1:50 Fig.

MUM Mowlem Constru	uctio	on	Co. ((E.A.) Lt	d.		1 of 1
Equipment & Methods. Pick/shevel hand teels excavation 2.1-2.70a	Local	tion.	NAIR	OBI	ВУРА	ss	RÓA	,D
COOPERATION AGENCY	Grour	nd Levi	el	Coord	Inates		Dote 23_2	26/9/91
Description	Reduced Level	egend	Depth g Thickness		amples S	/Test		Field .
	α	× ×	0 £	Depth		e No	Yes!	
Reddish brown SILTY CLAY with root fibres in upper zone. Dry soil, Dug by pickaxe and scooped by shovel. Reddish brown mottled black nodular fine lat GRAVEL(\$\phi\$0.3cm). Dry soil, Dug by pickaxe. Highly weathered light brownish grey		× × × × × × × × × × × × × × × × × × ×	(0) (1) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0		\$0	81		
agglomeratic TUFF. Dug by pickaxe.		4 4	. v	2.50., 2.	70 ‡	B 2		
The state of the purple of the first of the			لبيبيا					
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	<u></u>	<u> </u>	<u> </u>	<u> </u>		ــــــــــــــــــــــــــــــــــــــ	1	Logged by
been achieved the number of blows for the quoted penetration is given B Bulk	e eamnie	npte -	. Remar	X S				J.O. Scale
Thickness given in brackets in depth S& Stand column V Vane water level observations during boring C Core	HOUSELY	ation ies	٩				•	1:50 Fig. 3
are given on the last sheet of log. Rah	A-11		<u> </u>					

Mowlem Construition & Methods Pick/shovel hand tests excavation & L-9.40m	Loca	tion.	NAIR		/PAS			1 1 of 1.
arried out for JAPAN INTERNATIONAL	Grou	nd Lev	-			2	RO,	والمتعادية والمتعادة المتعادية والمتعادة والمت
OOPERATION AGENCY	Ground Level Coordinates							26/9/91
Description	ورو	2	ر X	San	ples	/Test	····	Field
	Reduced	regend	Depth f. Pickness	Depth	Sa	mple	Test	Records
		хх			Туре	No	1831	on the same of the
		, <u>x</u> ,						
Reddish brown SILTY CLAY with root fibres in upper		<u>×</u>	E					
zone and black ferruginous		<u> </u>	77. 2. 40)					
impregnation in lower zone. Dry soil, Dug by pickaxe and		<u>~</u> ^	Ē					
scooped by shovel.		<u>× ×</u>			١,			
		×. ×	-	1.80_2.20		В1		
Reddish brown mottled black nodular fine lat	eritic	0000	2.40 2.60					
GRAVEL Dry soil, Dug by pickaxe. Reddish brown SILTY CLAY with		4,4	7. (08					
tuff gravel. Gravel is completely weathered		13.7	Εġ	3.00_3.40	1	B2		
light brown tuff as in situ.	:	7	3,40		<u> </u>		• .	<u> </u>
Dry soil, Dug by pickaxe.								
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P.T: Where full 0:3 m penetration has not Sample /.T	est Ke	y	Remark	.s:	LJ		J	Logged by
been achieved the number of blows D. Disturbe for the quoted penetration is given B. Bulk so	ed sams							J. O.
/ Not North Nation		orcore						Scale 1:50
inickness given in prockets in depth 54 Standan	d Penetral	scale Ion Test			•		•	Fig. 4
Column R.L.; Water level observations during baring are given on the last sheet of log. V Vane Termon to the last sheet of log.	overy Digy Desig	gnation					1	1

Mull Mowlem Constru	ICTIO	on	Co. (E.A.)	Ltd.	Sheet	1 01 1
Equipment & Methods. Pick/shevel hand tools excavation 6,1-1,00s	Local		NAIR	obi by	PASS	ROA	D
COOPERATION AGENCY	Groun	d Leve	21	Co ordina	les	0ate 23	26/9/91
Description	Reduced	pussan	Depth 2. Thickness		ples/Te	~T	Field Records
Light grey CLAY with grass roots top 0.30m. Crack grew, Dry soil, Dug by pickaxe.	X		. 70)	0.40_0.70 0.40_0.70	Type N	0 1851	
Hightly weathered light grey pyroclastic TUFF.Becoming slightly weathered at bottom. Dug by pickaxe.		A	7.00	0.80_1.00	\$ 83		
DEPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Sal Standard Vane	bed san sample sample (P) Yube(I le length I ard Penetr	aple Jorcore a scale atlantest		ks.			Logged by J.O. Scale 1:50 Fig. 5

Mowlem Cons	tructio	n Co.	(E.A.)	Ltd.		nok natuja 1 ot 1
Equipment & Methods. Pick/shevel hand tools excavation 6.L-1.50m	Locati			YPASS	***************************************	THE RESERVE OF THE PROPERTY OF
COPERATION AGENCY	NAL Ground		Coording		ROA Date	26/9/91
	8_	v _ E	Ç	nles /7		**************************************
Description	Reduced	Legend Depth Thickness	Depth	Sample Type No	Test	Field Records
Grey CLAY with abundant root fibres top 20cm becoming rare downward. Crack grew, Dug by pickaxe.		0.90	0,20, 0,50			sampte
Orange mottled black nodular fine later CRAVEL (ϕ 0.2~0.3cm). Dug by pickaxe.	tic 0	0 0 1 1 4 (
Hightly weathered light grey Pyroclastic TUFF of angular dark grey pumice inclusions upto 3cm in fine grained matrix. Dug by pickaxe.		1.50				·
and oil browning.		T T				
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been achieved the number of blows D Dis for the quoted penetration is given B Bul	le / Test Key. turbed sample ik sample ter sample ton(P) Tube(U)or mple length tosc		ks			Logged by J. O. Scale 1:50
column V Van	ngse sengti was ndard Penetratio se Test e recovery s Cuality Design	∩ lest				Fig. 6

	pment & Methods. Pick/shavel hand tools excevation 6.1-1030m		Loca	tion.	NAIR	: .	ВУРА			1 or 1
	DERATION AGENCY	1AL		nd Le		Coordi	nates	Mary de de la companya de la company	Date	
	Description		Reduced Level	Legend	Depth 4 Thickness		mples I So	/Test	T	Field Records
<u> </u>		•	Œ	× >		Depth		No	Test	Kecoras
I I	Reddish brown SILTY CLAY with oot fibres in upper zone. Dry soil, Dug by pickaxe and			× × ×	ក្រាក់ក្រា (0.30)	1.00_1,30		81		
S	scooped by shovel.	П			-E1.30	1.002 1,30	1	Bı		
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T:	been achieved the number of blows D Dist for the quoted penetration is given B Bull	turbe k sa			Remarks	3	· · ·		.	Logged I
HS	(Not N value) W Wat All depths and reduced levels in metres son	on (P	iample)Tube(U) length to:	or core				٠.,	•	Scale 1:5(
L	column Se Stor	neend e Tes	i Penetrat	lon Hest					•	Fig. 7

MUM Mowlem Construence Methods. Pick/shovel hand tools excavation 6.L-4.20s	Loca				YPA	************		1 of 1 DAD
OOPERATION AGENCY	Groui	nd Lev		Coordina	tes	- 	Date	26/9/91
Description	Reduced	Legend	Depth & Thickness	5am Depth	ples/		Test	Field Records
Reddish brown with grey humus	CC .	¥	0.20	DEDIN	Type	No	1621	- Reference - April 1920
Reddish brown SILTY CLAY with occasional roots. Dry soil, Dug by pickaxe and Scooped by shovel. Reddish brown with black ferruginous impregnation SILTY CLAY. contain lateritic GRAVEL(\$\phi 0.2 \sigma 0.3cm)) (05't) ? (0t	•				
in 2.9~3.8m depth. Dry soil, Dug by pickaxe. Hightly weathered light yellowish brown pyroclastic TUFF, with black			11.13.80 0.00	2.90_3·20 4.00_4.20		B1		
ferruginous staining. Dug by pickaxe.	,		14, CV			•		
				· ·				
P.T: Where full 0.3 m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value) THS:All depths and reduced levels in metres Thickness given in brackets in depth column R.L: Water level observations during boring are given on the last sheet of log.	ed sample sample) Tube(U iength to d Panetra st	or core scale tion Test	Remark	\$				J. O. Scale 1:50 Fig. 8

Mowlem Construed Methods Pick/shovel hand tools excavetion C.L -1.000	Loca	UII			.) l	_t(<u> </u>		hole NaTC 11 of 1		
carried out for : JAPAN INTERNATIONAL		The state of the same and the s						ROA	ROAD		
COOPERATION AGENCY		id Lev		Coor	dinate	ts		Date 23	26/9/91		
Description	Reduced	Som Som Som Som Som Som Som Som Som Som			ples / Tests		Field Records				
Light grey CLAY with root fibres.	α		- 3 - 3	1		Tuna	No	Test			
crack grew, Dug by pickaxe. Orange brown mottled back nodular. fine lateritic GRAVEL(φ0.2~0.3cm).		0000	10053 10053	0.20_0	.40	7 8	BZ	Block	sample		
Highly weathered light grey Pyroclastic TUFF of dark grey pumice inclusions upto 1cm in fine grained matrix. Slightly weathered at bottem.		: A ব ব ব	0.90 1.00								
			بإيداياليدو					<u>-</u>			
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			dualos								
P.T: Where full 0.3 m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value) PTHS:All depths and reduced levels in metres Thickness given in brackets in depth column R.L: Water level observations during boring C Core ret.	ed sample sample) Tube(U length to d Penetra st	or core scale tion Test	Remark	¢\$					Logged b J.O. Scale 7:50 Fig. 9		

Mowlem Constru	actio	on (Co. l	_td.	Bor		No.	TB1		
Equipment & Methods Pick/Shovel hand tools excavation G.L-1.10a	Locat	tion.	IAIRO		Y_ P/	155				
COOPERATION AGENCY	Groun	nd Leve			linates	camples and representation	Date 25/	ie 5/7/90		
Description	Reduced Level	Legend	Depth & Thickness	S	ample	s/Tes	ts .	Field	Fi¢id	
	Red	, reg	7 g	Depth		sample pe No		Records		
Dark grey CLAY (Black cotton soil).		× ×	0.70							
Highly weathered non intact graylah brown phonolitic AGGLONERATE.		2.(1.10							
			-						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
END OF TRIAL PIT				•			1			
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			-			:			:	
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	:		-				:			
S.P.T: Where full 0.3 m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value)	oed sam ample sample	iple	Remar	K\$		1	<u> </u>	J. O. Scale		
Thickness given in brackets in depth Se Stonda	P) Tube(Use length in red Penetro retovery logity Des	ation ies			- · .			1: 50 Fig.)	

Mowlem Construinment & Methods Plok/Shevel hand tools excevation G.L-1-90m	Loca	tion.	NAIR	en en er men en Sheet Y_PA	· · · · · · · · · · · · · · · · · · ·	of]	an marayang A _r man ng mga Palayan (Malayan Launan ya Casabay ya	
TILL OUT TOT JAPAN INTERNATIONAL DOPERATION AGENCY	Groui	nd Leve	:1	Coordi	nates		Date 251	7 /90
Description	3 _ 3 ~ 3 ~ 3					mple.	Test	Field Records
Dark grey slightly slity CLAY with rare lava fragments upte 10cm(fill) Dark grey CLAY, trace gravel. (Black cotton soil). Highly weathered vesicular grey phonelitic AGGLOMERATE.		x 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1. 20		Type			
Thickness given in brackets in GEPTI I & Stand	bed san sample sample (P) Tube(le length	nple U) or core to scale ration Test signation	!	k ś				Logged by J.O. Scale 1:50 Fig.

Mowlem Constru	ıcti	on	Co.	Ltd.	Bore Sheet		No.	TB 3
Equipment & Methods. Pick/shavel hand tools excevation 9.1-1.50m	Loca	tion.	NAIR	OBI !	3Y P.£	\ \SS	·	America de America de Campando de Campando de Campando de Campando de Campando de Campando de Campando de Campa
COOPERATION AGENCY	Groun	id Lei	·é1	Coord		, est 4, est, est, est, est, est, est, est, est	Date 25/	7/ 90
Description	e duced Level	egend	Depth 2. Thickness	ļ	amples	/Test	\$	Field
Grey SILTY CLAY with some fine and medium gravel (fill).	<u> </u>	, × ,	e £	Depth		No	Test	Records
Dark grey CLAY (Black cotton soil).		·	0.70					
Moderately weathered light brown agglomeratic TUFF of black subangular punice fragments upto 3cm in fine altered matrix.		4	1.50					
END OF TRAIAL PIT								•
				:				
S.P.T: Where full 0:3 m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value) EPTHS:All depths and reduced levels in metres Thickness given in brackets in depth column Y.R.L: Water level observations during boring are given on the lest sheet of log.	ed samp mple cample) Tube(U) ength to I Penetral	or core scale ion lest mation	Remark	TO SERVICE STREET, SERVICE STR		O GARAGE		Logged by J. O. Scale 1:50 Fig.

Mowlem Constru		*	Co. L	td.		ole No. 1 ol 1	TB 4	
Equipment & Methods. Pick/Shevel hand teels excavation G.L-1.00m	Loca	tion.	NAIRÓ	ві ву	_ PAS	S		
COPERATION AGENCY	Grou	nd Lev	ei	Coording	otes	7/90		
Description	Reduced	Legend	Depth & Thickness	Samples / Tests			Field Records	
Dark grey CLAY (Black cotton soil).	œ		- +	Depth	Type	warmed Years 4		
Slightly weathered light grey agglemeratic TUFF of angular publice fragments upto 4cm in fine ashy matrix.		Δ Δ Δ	0.50					
END OF TRIAL PIT			1.00					
							·	
			uluudu					
P.T: Where full 0.3 m penetration has not Sample / been achieved the number of blows D Disturb			Remarks	<u> </u>			Logged I	
for the quoted penetration is given B Bulk s	ample sample P)Tube(U length to) or core scale				• ** • * *	3.0. Scale 1:50	
column V Vans Te	ra raine iro covery kojity Desi			•		٠	Fig.	

Mowlem Constru	uctio	on	Co.	Ltd.	Bore!		No. of 1	TB5		
Equipment & Methods. Pick/Shavel hand tools excevation Q.L-1.00m	l. ocat		NAIR	DBI BY.	. PAS	S	**************************************			
COUPERATION AGENCY	Groun	d Lev	el	Co ordir	nates		Date 27/	nte 717190		
Description	Reduced Level	puada	Depth E. Thickmess	Sa	mples	Test	5	Field		
	Red	2	Tie C	Depth	Sa Type	mple No	Test	Records		
Dark grey CLAY (Black cotton soil).		,					·			
Light green in situ tuff QRAYEL. Mederately weathered agglemeratic TUFF.		V V	0.55 0.80 1.00							
END OF TRIAL PIT										
			الساسياني							
	•									
column V Vane Te	ed samp ample sample P) Tube (U): length tot d Penetral	or core scale ion Test mation	Remark	(\$		iliotinposas e-mans		Logged by J. O. Scale 1:50 Fig.		

Mowlem Constru	ucti Loca		Co. I	_td.	Bore Sheet	hole 1	No.	TB6
excavation G.L-C.65a			NAIRO	BI BY	.PAS	5		
OPERATION AGENCY		nd Lev		Coordir	ates	Date 27/	7/90	
Description	Reduced Level	Legend Depth L			mples	/Pests	5	Field Records
D	ă d		å £	Depth	Type		Test	Records
Dark grey CLAY (Black cotton soil). Slightly weathered grey agglomeratic		Δ	0.65					
TUFF.								
END OF TRIAL PIT							i	
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T: Where full 0.3 m penetration has not Sample / D Disturb	ed sami		Remark	5	-	*		Logged J. O
for the quoted penetration is given B Bulk s (Not N value) W Water	sample	OF COM						Scale
inickness given in brackets in depth 56 Stondor	P) Tube(U) length to rd Penetro	scale tion lest				. •		1: 50 Fig.
Column I V Vone Te	rst covery gjily Desi			÷				^{riy,}

Mowlem Constru	uctio	n	Co.		Bore!		No.	TB 7
Equipment & Methods: Pick/Shevel hand tools excavation G.L-C.60n	Locat	ion.	NAIR	OBI BY	/_ PA	SS	nikrie temakanapae Pa	and the second s
Corried out for : JAPAN INTERNATIONAL COOPERATION AGENCY	Groun	d Lev	el	Coordir	***************************************	Placedonica <u>i</u>g	Date 27/	7/90
Description	Reduced Level	egend	Depth & Thickness	Sa	mples		-	Field
	Re	<u>.</u>	P E	Depth	Type	mple No	Test	Records
Dark grey CLAY (Black cotton soil).		• •	0.60					
Slightly weathered prey agglomeratic TUFF.		Δ <u>(</u> Δ	; ;				·	
END OF TRIAL PIT								
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			11.5		 - -			
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	, ,				: :		,	
S.P.Y: Where full 0:3 m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value) Sample / D Sample / D Disturb B Bulk so W Water	ed samp ample sample	ļe	Remark	\$				J.O. Scale
EPTHS:All depths and reduced levels in metres Thickness given in brackets in depth Column	P) Tube(U): length to: d Penetral et	ion Hesq	:	$\mu = \frac{1}{2} \frac{1}{4} \frac{1}{4}$				1:50 Fig.
R.L. Water level observations during boring C fore ret are given on the lest sheet of log.	A-129				Marikanyanyanya		eles n'altres de la compositation de la compos	

Mowlem Constr		and the second	Co.	Ltd.	Bore Sheet		No. 7	В 8		
Equipment & Methods. Pick/Shovel hand tools excevation G.L-1.Com	Loca	tion.	NAIRC	BI BY	_ PAS	SS		an shakaring a shakaring sa da shakaring sa shakaring da shakaring da shakaring da shakaring da shakaring da s		
COOPERATION AGENCY	Grou	nd Lev	el	Coordi	nates		Date 27/	77/90		
Description	Reduced	Legend	Depth & Thickness	Şo	mples	s	Field			
	α -	د	g t	Depth	Туре	mple No	Test	Records		
Dark grey CLAY (Black cotton soil). Highly weethered brown altered		 	0.65	· ·						
agglemeratic TUFF.	-	Δ	E 1. 00							
END OF TRIAL PIT	:		استاسا							
			min							
			ոլույր							
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P.T: Where full 0.3 m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value) PTHS:All depths and reduced levels in metres sample / Stando	bed sam; sample sample (P) Tube(U) e length to	or core	Remark	\$				Logged by J. O. Scale 1:50		
Column V Vone T	va Penetra est rcovery Lollity Desi A-13	gnation	فالمناذ بالمرافع والماليان والماد ورسيون والماد			all-discharge and a		Fig.		

Mowlem Constru	uctio	on	Co.	Ltd.	Borel Sheet		No. T	B 9
Equipment & Methods Pick/Shevel hand tools excavation G.L-G.80s	Loca	tion.	NAIRC	BI BY	_ PAS	S		
COOPERATION AGENCY	Grou	nd Levi		Co ordi	nates		Date 27/	7/90
Description	Reduced	Legend	Depth & Thickness		mples	Tests		Field Records
Dark grey SILTY CLAY (Black cotton soil).	<u> </u>	XK		Depth	Type		Test	wecold?
Orange brown mettled black nedular lateritic GRAYEL,		000000	0.15					
Slightly weathered grey agglomeratic TUFF.		A 13 150	0.80		 			
END OF TRIAL PIT			1111					
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S.P.T: Where full 0:3 m penetration has not been achieved the number of blows D Disturbed	bed sam	∎y. nple	Remar	ks				Logged by J. O.
for the quoted penetration is given (Not N value) DEPTHS:All depths and reduced levels in metres same		J)or core		·				Scale 1:50
thickness given in brackets in Septi Se Stonds	ad Penetri Jest	ation less						Fig.
W.R.L: Water level observations during boring C core of are given on the lest sheet of log.	Lightly Des A-1	- NAME OF THE PARTY OF THE PART						

Mowlem Constr	ucti	on (Co. I		Boret Sheet		No. 1	B10		
Equipment & Methods Pick/Shevel hand teels excavation G.L-1.50a	Loca	tion.	VAIROI		. PA	The state of the s		المستعدد الم		
COPERATION AGENCY	. G roui	nd Leve	1	Coordin	ates	-	Date 25/7	Date 25/7/90		
Description	Reduced	Legend	Depth 8. Thickness	Sa Depth	mples/	Test		Field Records		
Dark grey CLAY (Black cotton soil).	C			O E D (II	Туре	No	143(fall-coursepaphysethyle file, fall-coursepaphy		
Brewn slightly sandy CLAY trace fine gravel.			1.00							
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END OF TRIAL PIT										
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been achieved the number of blows for the quoted penetration is given (Not N value) EPTHS: All denths and repused levels in thetres	e / Test M urbed sai k sample er sample on(P) Tube(ople length soud Penet	mpl€ t U)orcone toscole	Remar	ks				J. O. Scale 1:50		
column I V Vom	Condity De	100		والمعارضة والمعارضة والمعارضة والمعارضة والمعارضة والمعارضة والمعارضة والمعارضة والمعارضة والمعارضة والمعارضة		· variable de la constante de		Fig.		