## 4. LOG SHEET ALONG THE ALIGNMENT

Scinitions used in description of additional discontinuity surfaces     East     East     East       13<     Fater     -     No visible sign of vestmering     East       13     Fater     -     Discolarition on main of the earliering of creek mass     East       13     Fater     -     Discolarition on main of the earliering of creek mass     East       14     Fater     -     Discolarition on main of the earliering of creek mass     East       11     Righty     -     -     Restand     East       11     Righty     -     New Highly     East     East       11     Restand     -     Restand     East     East       11     Restand     -     -     Restand     East       12     -     -     -     -     East       12     -     -     -     East     East       13     -     -     -     -     East       13     -     -     -     East     East		Particle sizeEquivalent soil term> 60mm> 60mm2 - 60mmBoulders & Cobbles60 micron - 2mmSand2 - 60 micronSilt2 - 60 micronSilt2 - 61 micronCley	TOTAL CORE RECOVERY Total of all core recovered including fregmental material Length of core run SOLID CORE RECOVERY	Length of core recovered heving full diameter Length of core run ADCK QUALITY DESIGNATION fotal 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 intact i.e. fragmented, not full diameter. WATER REST LEVEL is the level of water within the borehole in respect to ground level. (suffix 't' before the figure indicates the level as above ground level).
CEFINITIONS USED IN DESCRIPTION OF ROCK CORES       WEATHERING GROCE       WEATHERING GROCE       M. Freeh     -       M. Moderately     -       M. Highly     -       M. Completely     -       M. Moderately     -       M. Highly     -       M. Highly     -       M. Moderately     -       M. Moderately     -       M. Moderately     -       M. Moderately     -	GAAIN SIZE	<u>Term</u> Very coerse Coarse Medium Fine Very fine	ABBREVIATIONS T.C.R. S.C.R.	ι ι Ο Ο α	ו א ע	ן ו ג איד. א צ
		Fresh - No visible sign of weethering Faint - Discolouration on major discontinuity Silgnily - Discolouration on major discont Silgnily - Penetrative weathering of rock mas but only slight weathering of rock mas how only slight weathering of rock mas highly - Weathering extends throughout but rock highly - Weathering extends throughout end rock	<ul> <li>friable.</li> <li>Completely - Rock is wholly decomposed and friable b structure and texture are still maintai.</li> <li>Rock completely converted to soil and s etc. destroyed.</li> <li>Material not significently transported.</li> </ul>	ONTINUTTY SPACING	600 mm - 2n stely wide 200 mm - 600 60 mm - 600 60 mm - 200 10s= 20 mm - 60 rely close < 20	DISCONTINUITY INCLINATION The figures quoted on the right of the "Description" column of the borehole logs are the angles in degrees of the discontinuities measured from the horizontal.

Description Reddish brown Silty CLAY.	Reduced Level		(1.00) Thickness	Depth G.L 1.00	Type	mple	s Test	Fie Recc	
Moderately weathered brownish grey pyroclastic TUFF.			1.00	1.00 1, 4 5		D2	N = 60 F.(	TCRR	QD GR/
			( <u>561</u> ) 2.95	1.45 - 2.95			2	100	20 111
Slightly weathered with widely 70°- spaced fractures brown with grey patches pyroclastic TUFF of subangular grey, altered greenish grey punice inclusions		Q Q Q Q Q	ر بر المراجع المراجع المراجع	2.95_4.45			3	100	57
upto 4cm in fine grained brown matrix. Becomes grey from 7.75m Fractures steep rough clay		0 0 0	( 5.30	4.45 _ 5.95			2	100 4	.0 11
filled/limonite coated.		0.0.0		5.95 ~ 7.45			<u>ل</u> ية	100	¥8
	•	0. V V V	8.25	7.45 8.25			0	10010	0
END OF BOREHOLE									
column	ed sam ample sample ) Tube(U length to d Penetro	ple )or core scale ition Test	Remark	s	<b>I</b>	<b>.</b>		J. Scal	ed by O. e 50

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Equip		Methods		Sheet 1		Loce	ation.	NAIR	OBI BY	PAS	SS		
		or : JAP ION	• 1		TIONAL	Grou	ind Le	۷٤ĺ	Coordir	ates	f=24443g=34-34499	Dati 18 2(	0/7/90
and the second secon	n fils an				****	7	Ţ	Le B	Sa	mples /	*	*****	Field
		Desc	ription			Reduced Level	Legend	Depth & Thickness	Depth		nple	Test	Records
DATE	TIME	DE	PTH ( CASING	(M) [W.R.L	REMARKS								
		1.00	NIL 1.00	DRY DRY		-		E					
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		· .				i		E				1	
• •							L <u></u>	<u>E</u>					
P.T: V	Where fu	ll 0.3 m po leved the	enetrati-	on has no of blows	i Sample / D Disturi			Remark	S				Logged by
<b>\$</b>	or the qu	loted pen	etration	is given	Bulk s	ample	pie						J.O.
PT HS:	Not N Ni depths	and real	iced leve	is in metri	W Water	sample P)Tube(U t length k	)or core						Scale 1:50
Ϋ́	hickness column	given in	bracket	s in depth	Standa	nd Penetro	tion Test						1.50 Fig.
R.L.V	Nater leve are given	el observat a on the las	i <mark>lons du</mark> st sheet	ning boring of log.	C Core r	icovery igity Desi	gnation	V-86					· · y.

则 Mowlem Constru	ucti	on	Co.	Ltd. s	Bore heet		: No. 01 1	BE 2			
quipment & Methods. Betary auger 150m dla. G.L-8.10m	Loco		NAIRC	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	. PA		9 8083-834-035-034-6345-0	ning ( Darr 19 min ning dar 20 min ning dar 19			
Carried out for : JAPAN INTERNATIONAL	Grou	Ground Level Coordinates Date									
OOPERATION AGENCY	1	<b>—</b>	R			/	and the second second	5_17/7/90			
Description	Reduced	Legend	Depth & Thickness	Depth	ples So Type	mple	s Test	Field Records			
۲۹۹۹ میں بین سری بین کا کار کار کا کار کار کار کار کار کار ک		× ×				NO	\$				
		× × × ×	duu	G.L 1.00		BI					
		. <u>×</u> . <u>×</u> . <u>×</u>		1.00 <u>1.45</u>		U 2 D3		U100BLOWS39			
		· <u>×</u> . × ×		1.50_1.95		D4 B5	N = 4				
Seft becoming firm and hard reddish		× × .× . × .×	F Q	2.00_2.45 2.45_2.50		U6 D7	S	U100BLOWS50			
brown SILTY CLAY,		× × × ×	E	2.50_2.95		D8 D9	N = 11 S N = 10				
		× × × ×		3.00-4.00		B10					
		× × × ×		4.00 _ 4.45		D11	S N = 32				
· · · · · · · · · · · · · · · · · · ·		× × × ×	5.00	4.00~ 5.00		B12					
		· × · · · · · · · · · · · · · · · · · ·	بابين	5.00_5.45 5.00_6.00	•	D13 B14	5 N≈39				
Herd brown slightly sandy SILTY CLAY with some fine	- 	× · × : × · ×	דרן דד (2.00)	6.00_6.45		D15					
and a gravel, the second se		<u>· · · · · · · · · · · · · · · · · · · </u>		6.00 - 7.00	Ĭ	B16					
••••• ••••• •••• •••• •••• •••• •••• ••••		× × × ×	1. 1	7.00_7.45	¥  4 	D17	S N= 4 9				
Very compact brown sandy SILT with weathered gravel. (tuff)	,	x 	(1. 45)	7.00_ 8.00		B19	_				
		× × × ×	.8. 45	8.00_ 8.45	•	D20	N = 34				
END OF BOREHOLE											
P.T: Where full 0.3 m penetration has not Sample / been achieved the number of blows for the quoted penetration is given B Bulk so (Not N value) THS:All depths and reauced levels in metres	oed sam ample	ple	Remark	(5				Logged by J.O. Scale			
column Y Yone Te	t length to rd Penetro rst covery glity Desi	tion Test						1:50 Fig.			

加加 Mowlem Constru	ucti	on	Co.		Bore		No. t	3E 3
Equipment & Methods. Notary suger 150en dis. S.L.S.000	Loca	tion.	NAIR	OBI BY_	PAS	5	ى «يىپىرىن ئىلىپىرىن ئىلىپىرىن ئىلىپىرىن ئىلىپىرىن ئىلىپىرىن بىلىپىرىن ئىلىپىرىن بىلىپىرىن بىلىپىرىن بىلىپىرىن	angrada tangkan sanan sana sana sana sana
Corried out for : JAPAN INTERNATIONAL	Grou	nd Lev		Coordine	utes	5495 <b>4</b> 683- <b>20</b> 5	Date 22/	7190
Description	Reduced Level	Legend	Depth & Thickness	San Depth		/Test mple No	s Test	Field Records
		× × × × × × × ×		G.L 1.00		B1		n Den ekonol az szkon kener a Kakis alak kanga
		× × × × × ×		1.00_1.45 1.00_2.00		83	5 N=24 S	· .
Stiff becoming hard reddlah brown SILTY CLAY,		× × ×	(5.00)	2.00_2.45 2.00_3.00 3.00_3.45		D4 85	G	• .
		× × × × × × × ×	<u>u hundun</u>	4.00_ 4.45		B7	N=28 N=50	
·		× × × × × ×	5.00	4.00 _ 5.00 5.00 _ 5.45 5.00 _ 6.00	  ↓  ↓	89 D10 B11	S N=53	
Very compact orange brown slightly sandy CLAYEY SILT (completely weathered tuff)		 	(00-8)	6.00 - 6.45 6.00 - 7.00		D12 B13	N = 50	
		·	8.00	7.00_ 8.00	*	B14		
END OF BOREHOLE								
								- <u>1</u>
column	ed sam) ample sample )Tube(U) length to d Penetra	ple )or core scole tion Test	Remart	(5				Logged by J.O. Scale 1:50 Fig.

Equipment & Methods. Notary auger 150mm dia. C.LG.00m, Rotary coring 101mm dia. 6.00m 9.15m	Loco	ation.	NAIR	DBI BY	_ P	ASS	•			
Carried out for JAPAN INTERNATIONAL	Grou	ind Le	Vel	Co or dina			Dai	) <b>(C</b>		
COOPERATION AGENCY	-	· · · · · · · · · · · · · · · · · · ·	<b></b>	T	7.,28	3/7/	90			
Description	Reduced	b S	le le	Sam	ples	Test		· · · · ·	Field	
	Red	Legend	Depth 8. Thickness	Depth	So Type	mple I No	Test	R	cord	5
		× ×		Contrast Contrast Contrast Contrast				-		-
		× ×	E	G.L 1.00		<sup>•</sup> B1				
		х и								
		. <u>×</u> . × ×		1.00 - 1.45			S N = 8			
Firm becoming hard reddish brown SILTY	1	. <u>×</u>	Fa	1.00_ 2.00		B3				
CLAY.		×××	3.50							
	]	× ×	E 🖉	2.00-2.45	1		S N = 8			
	1	. <u>×</u> . × ×		2.00-2.45			N = 8			
	-	<u> </u>	E	2.00-3.00		85				
		<u>× ×</u>	E		¥.		S			
		× ×	E	3.00_3.45	+	D6	N = 8			
IS at such to a t	1	4. 1	E 3.50	3.00_ 4.00	1	B7				
High weathered brown pyroclastic	]		E					1		
TUFF.		1.10	Ę	4.00_ 4.45		D8	5 N = 28			
			E	4.00_5.00		B9	<b>6</b> U	1		
		v. م	E							
		· À · .	E I		*		s			
		0.0	1	5.00_5.45	4		S N=50			
		: 0	E	5.00_6.00		811	*			
		<u>ې. ک</u>	<u>-</u> 6.00		<b>1</b>		F.I	TCR	RQD	GRA
		4.1				•				
Moderately weathered		.،۵.	Ē	6.00_ 7.10			0	100	63	
brown pyroclastic	-	4:4								
TUFF of angular pumice		۰.۵	2.60		1		<b> </b>	<u></u> ††		
upto 3cm; occasional		D D	11. (2.							111
lava fragments, in fine altered matrix.	.		E I	7.10 _ 8.60			3	100	26	
attereu matrix.		0 . 9	E	~ ~				00	20	
		V: V	- 8 c 0							
Moderately weathered with closely and medium spaced fractures grey		V V	09.8 (09.8		ſ			<b> </b>		
unifora fine grained TRACHYTE. 48-		V	9.10							 
Highly weathered machine broken		V V V	\$0) \$0	8.60, 9.90			3	100	26	١V
brown TRACHYTE with black		vv	- d							14
ferruginous spots.	ł	<u>_V_V</u> _	9.90		<b>_</b>					
P.T: Where full 0.3 m penetration has not Sample / 1 been achieved the number of blows D Disturb			Remark	\$				ίo	gged	by
for the quoted penetration is given D Bulk so	ample								<u>J. O</u>	1
(Not N value) W Water PTHS:All depths and resuced levels in metres Priston (	sample P)Tube(U) Tength to	orcore						Se	ale 1	<u>^</u>
	A Demotesi	How Tecti		•					1:5	U
.R.L: Water level observations during boring C Core reader given on the test sheet of log.	st xvery ality Desig							Fig	9.	

quipment & Methods. See Sheet 1	Locat		NAIRO	an a	PASS	ot 2	⋧ <b>⋗</b> ₩₩₩ <b>₩</b> ₹ <del>₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩</del>
arried out for JAPAN INTERNATIONAL	Groun	nd Levi		Coordine		Date 7,28	
Description	Reduced Level	şnd	Depth 2. Thickness	San	ples /Tes	s	Field
	Red Le de	Legend	Dep Thic	Depth	Sample Type No	Test	Records
END OF BOREHOLE				, 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199			anayor alachmaciki isayiti b
ATE TIME DEPTH (M) REMARKS							
17/90 7.00 NIL NIL NIL	- -						
18.00 7.10 5.05 1.20 17/90 7.00 7.10 5.05 2.00							
18.00 9.90 NIL 2.20							
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(a) A set of the second set of the set of							
rija (na 1996), statu kara na selektra na selektra na selektra na selektra na selektra na selektra na selektra Na selektra na s							
P.T: Where full 0.3 m penetration has not Sample /			Remark	\$	<u></u>		Logged b
for the quoted penetration is given S Bulk s		ple					J.O.
(Not N value) W Water		)or core					Scale 1.50
Divances given in wruckets in depth 1 Se Standa	nd Penetra	tion Test					1:50 Fig.
	overy gity Desi	gnation	A-90				

Equipment 6.L=8.45a	Mowlem Co B. Methods: Astary auger 150 Retary cering 101ae dias 8,45	Contraction of the local division of the loc	Statement of the local division of the local	ation.		Minuma &	Y			
1	UL IOT JAPAN INTERNA RATION AGENCY	ATIONAL	Grou	ind Le	- iteration and a state	Coording	or R. & Party States		Date	•
LOUFE	MALION AVENUY	₩₩₩¥₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	2	-	N 1			1_		3190
	Description		Reduced Level	Legend	Depth & Thickness	Depth	sa Sa Type	mple	s Test	Field Records
				× × ×						
				× ×	Ē	G. L 1.00		B1		
			1	× ×	E.		+ <sub>1</sub>		S	
	4			× . ×	E	1.00_1.45	<b>│</b>	D2	N = 12	
			ľ	× ×	E	1.45_2.00		B 3		
	an an an 111 an Anna. Taonaiste an Anna an An			× ×	E	200.015	*		, s	
. *				. <u>.x</u> <u>x</u>	E	2.00-2.45	<sub>₄</sub> ͳ	D4	N = 20	
				. <u>*</u> . * *	Ē	2.45_3.00		B5		
	Firm to steep becoming			. <u>×</u>	E	3.00_3.45		De	S N ≃ 31	
	hard reddish brown SILTY CLAY.			<u>× ×</u>	11 (2:00)			20	(1 = 31	
1.		· · · ·		× ×	Ē	3.45_4.00		B7		
. '				× × ×	E	4.00_ 4.45		D'8	S. N = 32	
				× ×	Ē	4.45 5.00		<b>D</b> 5		. ·
				× ×	Ē		<b>↓</b>	89		
· .				<u>×</u>	É	5.00_5.45	•	D10	N=32	:
	s de <sup>la</sup> sealer de la company. Sen de la company de la company			. <u>*</u> . * *	Ē	5.45_ 6.00	1	B11		· .
				. <u>×</u> . <u>× . ×</u>			+		S N=28	
				. <u>×</u> . × ×		6.00_ 6, 45	,†	012	N=28	:
				× · · · ·		6.45_7.00		В13		
	in a star and the second star a The second star and the second s			· · · ·	- 7.00	7.00 _ 7.45	1	014	S N=48	
	Hard orange brown GLAYEY SILT trace send.			·	1. 00) 1. 00)		<b>+</b> '		-1-40	
		· · ·	÷	· ×	8.00	7.45 - 8.00		B15		
·	Moderately weathered fine to			<	ن 111 (آ	8.00-8.45		DIS	N = 56	
	coarse grained TUFF,			Ä V						
	Cempletely weathered clayey TUFF as above.			4.4	 	8.45_9.15			3	100 33:
END	OF BOREHOLE									
been for th	e full 0.9 m penetration has not achieved the number of blows e quoted penetration is given	Sample / 1 O Disturb B: Bulk si	ed sam	y. ple	Remark	(\$	<u>I</u>			Logged J.O.
( Not EPT H5:All de	N value) pths and reauced levels in metres	W. Water		or cone				÷		Scale
Thick	ness given in brackets in depth nn	Se Standar V Vane Te	d Penetra st	tion Test						1:50 Fig.
V.R.L: Water are g	level observations during boring liven on the last sheet of log.	C Core rei	Dovery Dity Desig	gnation	A-91					1.19.

	CI CAV	Cti	on	Co.				No. •† 2	BE	6
ipment & Methods: Astary auger 150mm dia. 4,70m, Antary cering 101mm dia. 4,70-11,000	•	Loca	ition.	NAIR	* 1.17-2* 87*12 * *********************************	_ PA		54 34999 (1000)	***	a-aller di montre a cipare e nid g
led out for JAPAN INTERNATIONA	NL.	Grou	nd Lev	«I	Coordine	1185	**********	Date	1	*****
PERATION AGENCY			1	T		-		29_	.30/	7790
Description		eve!	Legend	Depth & Thickness	San	nples	-	5	1	ield
	å		ڐ	å Ë	Depth	Type	nple No	Test	Re	cords
			x x x x x x x x		G.L 1.00		в1 D2	5 N = 14		
Firm to stiff and stiff			×.	L ô	1.00-2.00	3	83			
reddish brown SILTY CLAY.			× . ^ . × . × ×			41		s		
	:		× × ×	F	2.00. 2.45	1 11 1		N = 15		
			<u>× ×</u>	E	2.00_3.00		B5			
			×.×.		3.00_3.45	│ ∜ │ │↑	De	5		÷
			<u>× ×</u>		3.00- 3.45		D6 B7	N≃22		
			× ×	Ē						
			VVVV VVVV VVVV		4.00_4.45		D8	N = 25		
Completely weathered orange brown TRACHYTE (as sendy clayey silt)			· · · · · · · · · · · · · · · · · · ·	(07°L)	4.00_4.70	+	89	<u>F.</u>	<u>тс</u> я 83	RQDGRA V
Highly weathered light grey fine grained TRACHYTE	0			(08.0) <sup>5</sup> 6.				3	03	20 IV
\$11ghtly weathered with widely apaced fractures grey fine grained vesicular and porphyritic TRACHYTE,			~~~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		6.20_7.70			2	100	85
Yesicles upto 2cm linear, see lined with limenite/green chieritic material, 6 5	0 0 0		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	(3.80)	<b>7.70</b> ~ 8.70			3	100	70 11
Fractures steep rough limonite/ clay lined. 70	0		V V V V V V V V V V V V V V V V		8.70-10.00			1	100	69
for the quoted penetration is given B Buil (Not N value) SAll depths and recuced levels in metres Thickness given in brackets in depth column	wrbed k samp on (P) Tu spie leng sdand Pe t Test	t Ke sample nple ube(U) gth to enetra	y. ble socie	Remark	(5	<b></b>		<u>-</u>	Sco	gged by J.O. ale 1:50

Equipment & Methode. Base Bheet 1	T	ition.	NAIRC		PA	مۇدىتىلەر بەر يەر بەر يەر بەر يەر يەر يەر يەر يەر يەر يەر يەر يەر ي	ot 2		
Carried out for JAPAN INTERNATIONAL	Grou	nd Lev	/el	Ço ordinc			Date	<b>1</b> 30/7/9	20
Description	Reduced Levei	Le gend	Depth & Thickness	Son Depth	······	/Tests		Fiel Reco	d
Gempletely weathered non intect light greenish grey fine grained TRACHYTE. Zonally reddish brewn.			A	10.00_11.00	Type	No		100 (	V (
END         OF         BOREHOLE           ATE         TIME         DEPTH (M)         REMARKS           9/7/90         7.00         NIL         NIL         DRY           18.00         10.00         3.60         2.00         0           17/90         7.00         10.00         3.60         3.00           18.00         11.00         NIL         3.10			2513 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4						
column	ed sam) ample sample ) Tube(U) length to d Penetra	ple )or cone scale tion Test	Remark:	] s		<u> </u>		Scale	0.

mum Mowlem Constru	ucti	on	Co.	Ltd.	Borehole		BE 7
quipment & Methods. Botary auger 150mm dia. ;.L.S.15a. Botary coring 191mm dia. 6.45-11.30m	Loca		NAIRC	BI BY	- PASS	5	
OFFICE OUT TOT : JAPAN INTERNATIONAL	Grou	nd Lev		Coordine	stes	Date 30,31	17190
Description	Reduced Level	egend	Depth & Thickness	San Depth	Somple Somple	s Tes!	Field Records
		× × × × × × ×		G.L 1.0(			
		× × × × × × × ×		1.00 . 1.45 1.45 . 2.00	B3	S N = 21 S	
Stiff becoming hard reddiah brown SiLTY CLAY with aparee black		× × × × × × × ×	s. 00)	2.00 _ 2.45 2.45 _ 3.00 3.00 _ 3.45	B5	S N = 53 N = 59	
ferryginous impregnation.		· <u>×</u> · <u>×</u> · <u>×</u> · <u>×</u> · <u>×</u>	*) */********	3- 45 _ 4.00 4.00 _ 4.45		S N =47	
		× × × × × ×		4.45 _ 5.00 5.00 _ 5.45 5.45 _ 6.00	010 +	S N = 58	
Completely weathered non	· · ·	×	25) (00)	6.00 _ 6.45 6.45 _ 7.20			TCR RQD GRAD
Intact grey fine grained TRACHYTE. Reddish brown SiLTY CLAY. Gompletely weathered non intact grey fine grained altered TRACHYTE			E 7. 90 E 8.20	7.20 _ 8.20		NI	100 0 <u>-</u> V
Reddish brown SILIY GLAY Completely weathered light grey fine grained vesicular and porphyritic TRACHYTE with reddish brown clay pockets.		**************************************	8. (09.1) 8. (09.1)	8.20_ 9.70		NI	93 0 V
Thickness given in brackets in depth Standar column	ed sam ample sample P)Tube(U Hength to a Penetro	ple )or core o scale ation Test		k <b>s</b>	<u>1 I I</u>		Logged by J. O. Scale 1:50 Fig.

Equipment & Methods. See Sheet 1	Loco	*****	Co.	LIA. s	heet PA	2	No. of 2		<u></u>
Corried out for JAPAN INTERNATIONAL	Grou	nd Lev	كالكواب بمواطر إفتراطيتهم إمارها بالبوا	Coording	Date 30/	7/90			
Description	Reduced	Legend	Depth 8 Thickness	Sarr Depth	ples/ Sar	nple		Field Record	**************************************
(as above) Completely weathered light grey fine grained vesicular and porphyritic TRACHYTE.			(1.30)	9.70_11.30		NO	N	100 0	v
END OF BOREHOLE		VX Y Y							<b>I</b>
	-								
			****						
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 reauced 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 sam imple sample )Tube(U length to	pie )or core )scale	Remark A-95	5. 	2019			Logged J. () Scale 1:5 Fig.	

Equipment & Methods. Rotary auger 150mmdia.	Loci	Location. NAIROBI BY_PASS							
arried out for JAPAN INTERNATIONAL	-	Ind Leve							
OOPERATION AGENCY		100 F.646	i i	Coording	ites		Date 307	7790	
	10		Depth # Thickness	Sam	Field				
Description	Reduced Level	bng		Depth		mple	Records		
<u></u>	<u> </u>		0 <u>2</u>	Ukpin	Type	No	Test		
		×.	•			ŀ			
				G.L - 1.00		B1			
			• na• • .				S		
				1.00-1.45	14	D1	N = 6		
Medium and hard		· <u>×</u> <u>× ×</u>		1 00 - 2.00		B 2			
reddish brown SILTY CLAY.	1	× ×	•						
		. <u> </u>		2.00-2.45		D 2	S N = 7		
			5.50	2.00 - 3.00		В3			
	:	× ×					S	- -	
	.  -	<u>×</u> × F		3.00 - 3,45		D3	N > 50		
an an an an Araba an an Araba an Araba. Tarang ang ang ang ang ang ang ang ang ang		×.×E		3.00 - 4.00		В4			
	1 2	× × × ×	<b>n</b>				S		
			•	4.00~ 4.45		D4	N = 32		
		. <u>×</u> . E		4,00 - 5,00		B 5			
		<u>× ×</u>	•	5.00 5.15	+	<b></b>	S		
	-		5,50	5.00 - 5.45	†Ţ	D 5	N> 50		
Completely weathered orange brown TRACHYTE.	ą.	Ň, Ě	5)	5.00 - 6.45		96			
(as sandy clayey silt)		I W E	(0.9	0.00 0,40					
			6.45		Ť				
END OF BOREHOLE		: <u>E</u>							
		E	.						
a series and the series of the									
		Ē							
		Ē			· .				
		E F						:	
.T: Where full 0.3 m penetration has not Sample /		F							
been achieved the number of blows D Distur	/Test Ke bed samj		Remark	2				Logged by	
for the quoted penetration is given B. Bulk (Not N. value) W. Water	sample			·				Scale	
	(P) Tube(U) ie length to and Penetra	scale ::						1:50	
column V Vone 1	rest ecovery uplity Desi							Fig.	

Mowlem Constru	T	ON ation.	Co.	Ltd. s	Bore		No. of 2	BE 9		
Equipment & Methods Betary auger 150mm dia. 8.L.7.45m. Botary coring 191mm dia. 7.45-13.00m	NAIROBI BY_PASS									
COOPERATION AGENCY	Ground Level			Coordinates			Date 29/ <b>7</b> /90			
Description		Reduced Level Legend		Sam	Test			Field		
		Legend	Depth 2 Thickness	Depth		mpie	Test	Reci	ords	
		<u>× ×</u>	E					+		
		× × × ×		G.L1.00		ิB1				
		× ×	Ē	1.00-1.45		DZ	'S N =6			
		<u>×</u> × ×	s l s s	1.00-2.00		в3				
		x x	È		+1		s			
		× ×	Ē	2.00 ~ 2.45 2.00 _ 3.00		D4 B5	N=16			
		×	Ē							
		×××	E	3.00_3.45		De	S N=12			
Soft to firm, firm to stiff becealing hard reddish brown SILTY GLAY.		× ×	1))(1) (2, 45)	3.00_ 4.00		87			·	
		× ×	E	4.00_4.45		D8	S N <u>=</u> 12			
		<u> </u>	E	4.00_ 5.00	i	<del>8</del> 9-				
		× ×	Ē		+		S			
		× ×		5.00 5.45			N=30			
		× . × ×	E	5.00. 6.00		811				
		× ×		6.00_ 6.45		D12	S N=48			
		× ×		6.00_7.00		B13				
		× × ×	E				د .			
		. <u>×</u> . × ×	E 7. 45	7,00_7.45			N = 54 F.I	TCRR	QDGRA	
Completely weathered non intect light gray fine grained vesicular TRACHYTE.		V V V V V V V V V V V V	7.85	7.45.7.85			NI	100 (	o v	
Beddish brown SILTY CLAY.			8.05	1						
Completely weathered erange brown			Ē	7.85_9.35			NI	96	0	
TRACHYTE (as clayey silt)		V V V V V V V V V V V V	1 I I 95)							
		~~~~	с. С						V	
		v V V V V V V V V V V V		9.35_10.85			NI	96	o 🛛	
P.T: Where full 0.3 m penetration has not Sample / been achieved the number of blows D Disturt	bed sam	I <u>V</u> V V V ∎y.	Remari	k s			L!		ged by	
for the quoted penetration is given B Bulk s (Not N value) W Water	ample sample	-						Sco	. O . le	
Incliness given in Brackets in Depth 154 Stonds	P) Tube(L e length t ed Penetr	J)or cone o scale ation Test						-	:50	
column V Vore T	est covery hality Des							Fig	•	

quipment & Methods. See Sheet 1	Loca	State of the local division of the local div		DBI BY	1999) <b>- 1995 - 1995 - 19</b> 95 <b>- 19</b> 95 <b>- 19</b> 95 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995 - 1995		<b>₩</b> ~ <b>1</b> ₩~5×4 <b>₩</b> ₩00₩₩40¢	****	
DOPERATION AGENCY	Grou	nd Len	STATE OF CHARGE STREET, ST	Coordina	t Chemian National	A T A Y A T A Y A Y A Y A Y A Y A Y A Y	Date	7/90	
Description	Reduced Level	Legend	Depth 8. Thickness	Sam Depth	ples So Type	nple		Field Records	
(as above) Completely weathered orange brown TRACHYTE (as clayey silt)			(0: 1) (0: 1)	9.35_10.85		NO		v	
Reddish brown SILTY CLAY Completely weathered non intact brown TRACHYTE.			$   \begin{bmatrix}     11.75 \\     \hline     0 \\      0 \\     \hline      0 \\      0 \\     \hline      0 \\     \hline      0 \\     \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      \hline      0 \\      0 \\      \hline      0 \\      0 \\      \hline      0 \\      \hline      0 \\  $	10,85_12.35			NI	100 0 <u>-</u>	
Reddiah brown SILTY CLAY		× × × × ×	2 12.35 6 0 13-00	12.35_13.00			NI	100 0 _	
END OF BOREHOLE							:		
			ulanlanda.						
	•	· ·	landan land						
column	ed samj ample sample )Tube(U) length to d Penetra	or cone scale tion Test	Remark	5	·			Logged by J. O. Scale 1:50 Fig.	

quipment & Methods. Belary auger 150mm dia. 1mm dia. 9.00-4.10m. Relary auger 150mm dia. 10-7.30m, Retary coring 101mm dia. 7.30-14.00m	Location. NAIROBI BYPASS ROAD									
arried out for JAPAN INTERNATIONAL	Grau	nd Lev	el	Coording	ites		Dat			
OOPERATION AGENCY	10	1	8	ſ				_26/9/	<u>'91</u>	
Description	Reduced Level	gend	Depth .E Thickness	San	iples	/Test	s T	Field		
	a J	<u> </u>	οĘ	Depth	Type		Test	Record	a <b>s</b>	
		× ×			1					
		х ж х	E	G.L 1.00		81				
		. ×.	E _							
Soft becoming stiff reddish	1	<u>×.×</u>	11 1		<b>*</b>		s		:	
brown SILTY CLAY. Dry soil.		XX	117	1.00.1.45		D2	N = 5	1		
DIY SOIL.		. <u>×</u> .	F							
			E	1.50_2.00		B3		1		
		××	F	2.00_2.45			S N = 16			
	-	*	E-2.45				'' - ' C	1		
		× · · · ·	E	2.50-3.00	†	85			:	
			E.	3.00 _ 2.15	+	1		TCR RO		
Very compact brown sandy		L. ; .	E	3.00_3.15		06	(51) R	EFUSAL	1	
CLAYEY SILT with weathered		··	<b>L</b> (0 g	3.00. 4.10			NI	100 0	V	
tuff zones and fragments and lateritic GRAVEL ( $\phi$ 0.3cm).			Eg							
(completely weathered tuff)		•••• <u>×</u>	Ē				<u>_ </u>	<u> </u> l		
Dry soil.		۱ ۲	E	4.10_ 4.55		D7	N : 2 8			
			E		4					
		<u>- : -</u>	5.05	4.55 . 5.05		B8				
Frange brown mottled black nodular		0000	- in	5.05 5. 50		09	S N = 50			
ine lateritic GRAVEL( $\phi$ 0.3cm).in clay matrix.		0000	£5.50							
		÷, ÷	F	5.50_6.00	II	810				
Hard reddish brown sandy SILTY		×·×	20 I		<b>*</b>		s			
CLAY with weathered tuff fragments.				§.00_ 6.40	1	011	(134)	REFUS	AL	
		· × ·		6.40_7.00	ΙŢ	B12				
		$\frac{\times}{\cdot}$	E 7.00		╎╷┽		5			
		h::/	E	7,00,7.35		D13		REFUS		
Highly becoming moderately weathered non intact brownish grey		し引	E				<u> </u>	TCRRQ	)GR/	
trachyte AGGLOMERATE of angular	1	(; <u>.</u>	1111 (1.75)	7,308.00			NI	100 0	١V	
compact and finely vesicular trachyte		i. i								
fragments upto 6cm and pumice in thin altered fine grained matrix.				8,008.40	ļ			100 0	- 11	
in our active the grander matter.			- 8.75			[				
	1	V V V V V V V V	드							
		VVVV	ር በ	8.40.10.00			17	100 8	11	
See Sheet 2		$\vee$	- e			1				
		$\nabla \nabla \nabla \nabla$	Ē,							
1.	1	VVVV	<u> </u>	L	L	<b>I_</b> `	L	LUgge		
P.T: Where full 0.3 m penetration has not Sample / been achieved the number of blows 0. Distur			Remari	1.3				Logge J.	-	
for the guoted penetration is given 🗦 Bulk i								J. Scale		
(Not: N value) W Water THS:All depths and reduced levels in metres Piston	sampie (P)Tube(l ie length b	I)or cont						1	50	
THERMERS GIVEN IN BRACKETS IN DEPTH SU Sland	and Percetin	ation Test						Fig.		
	f <b>est</b> ecovery uglity Des	ionation	A-99						ι.	

uipment & Hethods. See Sheet 1	Loca								
reled out for : JAPAN INTERNATIONA	Grou	برغميات وجالا المتعمينات بتناك	IROBI el	BY PA Co ordina		OAD Date	<del>~~~~~</del>		
OPERATION AGENCY		<b>T</b>		Y	1	24	267	9/9	)1
Description		egend	Depth 2 Thickness	Sam	ls	Fi	Field		
	Reduced		The Der	Depth	Sample Type No	Test	Rei	Records	
		V V V V V V V V V V V V							
a the second		V V V V V V V V							
Highly weathered with very closely		VVVV		10.00 - 11.50		12	100	7	
and closely spaced tractures partly non intact grey with green tinge fine grained		V V V V V V V V							
TRACHYTE with occasional less weathered		$\nabla \nabla \nabla \nabla$							
zone upto 15cm.		vvvv			1				
		VVVV							
		VVVV		11.50_13.00		10	100	0	1
Fractures subhorizontal		vvvv	<b>-</b>					U	1
rarely medium steep and			E						
steep rough clay filled with fracture surfaces black iron		VVVV	E	]			┞───┤		
exide coated.			E						
		vvvv		13-00_14.00		NI	100	0	ĺ
		~~~~						•	ł
	:	<u>v v v v</u>	-14.00	<u> </u>	<b></b>	┨╼╍┸╍╍╍┤	<u>                                     </u>		İ
END OF BH.									
			-						
TE TIME DEPTH (M) REMARKS									
191 18.00 4.10 3.00 0.50									
9/91 7. 00 4. 10 3. 00 DRV					-				
18.00 8.40 7.50 1.10							1		
13.15         14.00         7.50         2.50									
					ŀ				
a the state of the state of the state of the									
			-						
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	1		-						
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			-						
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		Ē							
		F				L			•
T: Where full 0.3 in penetration has not Sample / 3			Remark	15			Lo	gged	Þ
<ul> <li>been achieved the number of blows.</li> <li>D. Disturbing for the quoted penetration is given.</li> <li>B. Bulk so</li> </ul>		pie						J. O	•
(Not N value) W Water	sample	)or com					1	oie	
HS:All depths and reauced levels in metres Pieton(F somple	P)Tube(U length to	scale						1:50	0
Thickness given in brackets in depth Standan	of Denis and	Line Terril					L	-	-

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'')

而 Mowlem Constru	ucti	on	Co.	Ltd. s			No. 1 of 1	BF 1	
Equipment & Methods. Retary augar 150mm dia. 8.L-1.00m. Retary coring 101mm dia. 1.00-5.20m	Loca	tion.	NAIR	OBL BY	'_ P	ASS			
Carried out for : JAPAN INTERNATIONAL	Grou	nd Lev		Coordina	tes		Date 25 _	2617	/90
Description	Reduced Levei	Legend	Depth 2 Thickness	Sam Depth		Test:	s Test	1	eld ords
Derk grey CLAY.         Highly weathered non intact grey phonolitic AGULOMERATE of angular phonolitic fragments upto 15cm in fine grained matrix.       0*-         Moderately weathered grey with brown patches phonolitic       0*-         Moderately weathered grey with brown patches phonolitic       0*-         AGGLOMERATE of angular compact and vealcular phonolitic       0*-         AGGLOMERATE of angular compact and vealcular phonolitic       0*-         frequents upto boulder size in fine grained matrix.       0*-         Frectures subhorizontal rough clay filled.       20*-         30*-       30*-         ATE TIME DEPTH (M) HOLE CASING W.R.L.       REMARKS         5/7/90 13.00 NIL NIL DRY       18.00 3.00 1.00 1.00         18.00 5.20 NIL 2.10       10			$(00^{\circ})  (01^{\circ})	G.L 1.00 1.00 _ 1.50 1.50 _ 3.00 3.00 _ 4.40 4.40 _ 5.20		BJ	NI 3 6	100	RQD GR/ 0 1 V 33 35 III 32
5.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) PTHSAN depths and reauced levels in metres Thickness given in brackets in depth column V.R.L: Water level observations during boring Core for Core for Core for Core for Core for Core for Core for Core for Core for Core for Core for Core for Core for Core for Core for Core for Cor	bed san sample (P)Tube(l e length t and Penetn	nple J)orcore pscole	Remar	ks.	·			Sc	gged by J.O. ale 1:50 a.

mim Mowlem Constru	uctio	on	Co.				No. of 1	BF 2	
Equipment & Methods. Notary suger 150mm dis. g.L=0.50m. Notary coring 101mm dis. 0.50=5.00m	Locat	ion.	NAIR	)BI BY	PAS	55			
Carried out for JAPAN INTERNATIONAL COOPERATION AGENCY	Groun	d Lev	C	Coordina	tes		Date 25/7		**************************************
Description	Reduced Level	Legend	Depth E Thickness	Sam Depth		mple	s Test		eld ords
Dark grey CLAY	54	کین اللہ اللہ ملک واللہ اللہ اللہ اللہ اللہ اللہ اللہ الل	(0.70)	G.L 0.50	Type	No B1	EL	TCR F	
20°		<u>)</u>	C 0.70				: <u>NI</u>		
0°		];;;;[		0.50_2.00		3 .	6	100 :	29
Moderately weathered with medium spaced fractures 0° grey with brown patches phonolitic AGGLOMERATE of angular valcular and 10° compact phonolite fragments 10° upto boulder size in fine			(05.2) (4.30)	2.00_3.50			4	100	52 111
grained matrix. Fractures subhorizontal rough limonite coated.			muniture	3.50., 5.00			6	100	50
0° END OF BOREHOLE			5.00						
ATE TIME DEPTH (M) HOLE CASING W.R.L. 5/7/90 7.00 0.00 NIL DRY 18.00 5.00 NIL 2.00									
			uluuluu						
S.P.T: Where full 0.3 m penetration has not Sample / been achieved the number of blows D Disturb for the quoted penetration is given B Bulk s	ample		Remar	k S				ر	gged by . O .
(Not N value) EPTHS:All depths and resuced levels in metres Thickness given in brackets in depth column	sample P)Tube(U) length to rd Penetra	tion Test							ale :50

Description	Gro Gro Kedeced	und Le	vel	OBI BY	****		Date	ĬĊŔŎŎŎŎĊŎĊŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎŎ
Description	Reduced Level	end	8	The second s			23.2	417190
	- Sec	-	[ 눈 드	Sam	ples/		T.	field
Brock and a state		Ľ	Depth & Thickness	Depth	San Type		Test	Records
B		·	Ē					
		·	Ēa	G.L 1.00		Bl		
Hard grey CLAY			2.00)		<del> </del>  }		·s	
			Ē	1.00_1.45			N = 54	·
			E	1.00-2.00		B3		
	-		E 2.00	1		-	S N = 50	
			Ē	2.00 2.45	1 II I	D4 B5	N = 50	
			Ē					
		· · · · · ·		3.00_3.45		D6	N = 53	
Hard brown CLAY				3.00 . 4.00	1 11 1	B7		
		-	Ē					
			Ē	4.00_4.45		D8	N=29	
			È.	4.00_ 5.00		B9		
· · · · · · · · · · · · · · · · · · ·			E 5.00					
Completely weathered erange brown TUFF.		$\Delta$ $\Delta$	5.00 5.00 5.45	5.00 - 5.45		010	S N = 47	
END OF BOREHOLE								
			E					
			Ē					
			E					
and the second			E					
			E					
			E					
		1						
			Ę					
			E					
			Ē					
			E					T
been achieved the number of blows 0 Dist	e / Test - I urbed sa k sample		Remar	k S		4		Logged by J. O.

mum Mowlem Co	CONTRACTOR AND ADDRESS OF	ucti	on	Co.		Boret		No. 1 of 2	BF 4
Equipment 8. Methods. Rotary auger 150n G.L16.40m	m dia.	Locc	ition.	NAIR	OBI BY.	_ PA	SS	alman milan da stern d'alle da se	ĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ
Carried out for : JAPAN INTERNAT	IONAL	Grou	ind Lev	el	Coordina	tes	30	Date , 31/ 7.	_ 1/8/90
Description		Reduced Level	regend	Depth & Thickness	Sam Depih		Tests	T	Field Records
			× × . ×	E		Type	No	1251	//
			× × . × × ×	1.1.1	G.L 1.00		81		
			. <u>×</u> × ×		1.00 <u>1.45</u>		D2 B3	5 N = 8	
			× . × X . _X . X		2.00_2.45			S N = 7	
Soft to firm reddish			· ×		2.00_2.45		B5	iv = 7	
brewn SILTY CLAY.			<u>× ×</u> <u>× ×</u>	(00.8)	3.00_3.45 3.00_4.00		D6 B7	. 5 <sup>°</sup> N = 4	
		5 - - -	× ×					ς	
			× . ×		4.00_ 4.45 4.00_ 5.00	- EF F	D8 89	N = 4	
			× . × .×. × .×		5.00 5.45		D10	S N = 4	
			× ×	ι 	5.00, 6.00		811		
n an an Arthur an Arthur an Arthur Arthur an Arthur an Arthur Arthur an Arthur an Arthur Arthur an Arthur an Arthur					6.00 <u>-</u> 6.45 6.00 <u>-</u> 7.00		D12 B13	N = 4	
					7.00 - 7.45	+	D14	S N =15	
Completely weathered orange brown TRACHYTE.				4.00)	7.00_ 8.00		815		
(as sandy clay trace sand)					8.00 8,45 8.00 9,00		D16 B17	S N = 25	
					9. 00_ 9. 45		D18	S N = 35	
			V V V V V V V V V V		9.00_ 10.00		B19		
been achieved the number of blows	Sample / 1 D Disturb Bulk sc	ed _sam	у.	Remark	<u>1</u>	<b>T_d</b>	<b>l</b> .		Logged by J. O.
(Not N value) PTHSAU depths and reauced levels in metres Thickness given in brackets in depth	W Water Piston(F sample Standan	sample )Tube(U length to d Penetra	)or core scale ition Test						Scale 1:50
	V Vone Te	st Svery Dity Desi							Fig.

Equipment & Methods. See Sheet 1	Loça	lion.	NAIR		PASS	anga wasan ang karang karan Karang karang br>Karang karang	
Carried out for : JAPAN INTERNATIONAL	Grour	nd Lev		Co órdinate	25	Date	<b></b>
COOPERATION AGENCY				and the second	1/8/90		
Description	Reduced Level	р Ц	th fields	Samp	Field		
	L e B B	Legend	Depth & Thickness	Depth	Sample Type No	Test	Records
(RS EDOVS)		V V V V V		10.00_10,45	• D2	S N= 30	
				10.00.11.00	821		
		VVV	E				
			E	11.00_11.45	D22	S N=32	
				11.00_ 12.00	B23	1 1	
			E				
		VV.	Ē	12.00_12.45	1 D2/	S N=20	
				12.00_13.00	B25		
Completely weathered orange			Ēõ				
brown TRACHYTE.			0.9	13.00_13.45		S N=41	
(as sandy clay trace sand)		VVV	E	13.00_13.43	B27	1	•
			È	10.00210.00			
			Ë.		<b>4</b>	5 N= 39	· ·
•			E	14.00_ 14.45 14.00_ 15.00		1 1	
		VV	Ē	14.00 - 15.00	B 29	1	
				15.00_15.45		s	
			Ē	15.00_15.45	B31	1 1	
			E	1			
Hithly weathered grey	ł		ີ 16.00 ດ		1	S.	
TRACHYTE.		vvv	16.45	16.00_16.45	• D32	N = 63	
			Ē				
END OF BOREHOLE			F				
and and a second se			Ē				
		1	E				
			Ē				
			E				
			E				
			E				
S.P.T: Where full 0.3 m penetration has not Sample /	Test K	1 R.y.	Remar	ks	A		Logged by
been achieved the number of blows D Distur- for the guoted penetration is given B Bulk s		ple					J. O.
(Not N value) W Water	somple	))or core					Scale 1.50
THERNESS GIVEN IN BEACKETS IN OFFICE 1.56 Stores	(P) Tube(L e length b and Perietn	allon Test	1				1:50 Fig.
Column W.R.L: Water level observations during boring are given on the last sheet of log.	lest covery uplity Des	iopotion	A-105				[ "I <u></u> ğ.

e and a second			· • .					
Mowlem Constr	ucti	on	Co. I	Ltd.	Borel Sheel			TC 1
quipment & Methods. Pick/Shevel hend teels excavation G.L-0.80n	Loca	tion.	NAIF	ROBI E	9 <b>Υ_</b> Ρ	ASS		4-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5
Corried out for JAPAN INTERNATIONAL	Grou	nd Levi	e i	Coordin	ates		Date 25/	7/90
Description	Reduced Level	Legend	Depth 2. Thickness	Sa	mples/			Field
	α. Ω	r r	Thi De	Depth	Type	mple No	Test	Records
Reddish brown SILTY CLAY. Reddish brown motiled black concretionary lateritic GRAVEL.		. <u>×</u> •••••• ••••••	0.40 0.70					
Moderately weathored altered brown flae grained TRACHYTE.		VVVV						
END OF TRIAL PIT						1		
			luuu fu					
.P.T: Where full 0.3 m penetration has not Sample	/Test K	#¥.	Remar	ks.				Logged by
been achieved the number of blows D Distu- for the quoted penetration is given B Buik (Not N value)	rbed son sample r sample	npi¢						J. O. Scale
EPTHS:All depths and required levels in metres Fistor Thickness given in brackets in depth column	n(P) Tube(l de length t lond Penetr Test	U) or cont to scale ation lest						1:50 Fig.
W.R.L; Water level observations during boring C Core are given on the last sheet of log.	recovery suglity Des	signation	A-106	******				

加加 Mowlem Constru	Loca		Co. 1	td.	Soreho Sheel 1	ole No. of 1	
uipment & Methods- Pick/Shovel hand tools excevation Q.L=0.05m		tion.	NAIR	NOBI B	Y_ PA	SS	uner ann statut an
OPERATION AGENCY	Grou	nd Leve		<u>Co ordin</u>	ales	. Date 25/1	7/90
Description	Reduced Level	Legend	Depth & Thickness	Sar	nples/Y Samp		Field Records
	Ř.	++		Depth	Type	No Test	Records
Reddiah brown allty GLAY with lateritic gravel Orange brown mottled black fine to coarse lateritic GRAVEL . Water level Da20m		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.20				
END OF TRIAL PIT			-	i			
			t i l i				
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) W Water	bed sa sample	mpl∉	Remar	ks	_		Logged by J. (). Scale
THSAil depths and required levels in metres Priston Samp Thickness given in brackets in depth 54 Stord	(P) Tube le length and Penet	(U)or cone to scale					1:50 Fig.

mum Mowlem Constru				Borehole Sheet 1		TC 3
Equipment & Methods. Pick/Shevel hand teels excavation 6.1-0.70s	Loca	tion. NAIRO	BI BY.	PASS		
Carried out for JAPAN INTERNATIONAL COOPERATION AGENCY	Ģrour	ne Level	Coordin	ates	Date 25/	7/90
Description	Reduced Level	Legend Depth & Thickness	Sar	nples/tes	وروزموا المحادث فللت المتكالة فللت	Field
	Reduce Level		Depth	Sample Type No		Records
Orange brown/black nedular lateritic		0000 <u>0</u> 00 <u>0</u> 15				
Boderately weathered light grey agglomeratic TUFF of subangular greenish grey punice fragments upte 5cm in fine grained matrix.						
		u luu lu				
END OF TRIAL PIT						
						· .
		and th	-			
		llulu.				
		h cu la				
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					Logged J. O.
(Not N value) W Water EPTHS:All depths and reauced levels in metres Piston( sample	sample P)Tube(U r length to	)or core scale				Scale 1:50
column V Valle T	rd Penetro est covery wility Desi	1				Fig.

Equipment & Methods Pick/Shovel hand toole excavation S.L-1.20m	Loca	tion.	NAIRO	ang	Sheet PA		1949, #1949, #1949, #1949, #1949, #1949, #1949, #1949, #1949, #1949, #1949, #1949, #1949, #1949, #1949, #1949,	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
Corried out for JAPAN INTERNATIONAL	Grou		:1	and a state of the		ato de califado	Date 25/7	/90
Description	Reduced Level	Legend	Depth & Thickness	a kan dan ang si panganan kan ara	nples/	Test		Field Records
and a state of the second s	æ	Ц Х. Х	<u>م ج</u>	Depth	Type		Test	
Reddish brown SILTY CLAY with lateritic gravel.		× × × × ×	0.50					
Miderately weathered light brown/grey agglomeratic TUFF.		4	1.20					
END OF TRIAL PIT								
			liser la					
						- 		
			luulu					
S.P.T: Where full 0.3 m penetration has not Sample /	Test K	•y.	Remark	(5	1	I		Logged by
bren achieved the number of blows D Distur for the quoted penetration is given B Bulk : (Not N value)	bed san sample sample	nple				-		J. O. Scale
EPTHS:All depths and reduced levels in metres Piston Thickness given in brackets in depth Standa	(P) Tube(I ie length I and Penetr	u) or core to scale ation Test						1:50 Fig.
	iest ecovery uglity Des	ignation	A-109					

upment & Methods. Pick/Shevel hand teels excevation G.L-1.100	Loca	tion. NAIRO	BI BY PA	SS	
OPERATION AGENCY	Grour	nd Level	Coordinates	Dat 25/	e 17/90
Description	Reduced Level	Legend Depth 2. Thickness	Somples S	/Tests	Field
Reddish brown SILTY CLAY.	ά –		Depth Typ	e No Test	
As above with tuff cobbles.		$\frac{\times}{200} \times 0.60$			
Noderately weathered light brown agglemeratic TUFF.		AWAE 1.10			
END OF TRIAL PIT		i u u lu u			
					:
					:
		lt.			
<ul> <li>T: Where full 0.3 m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value)</li> <li>HS:All depths and reauced levels in metres Thickness given in brackets in depth</li> </ul>	bed sam ample sample (P)Tube(L signath b	iple i)or core o scole	5		Logged by J. O. Scale 1:50

Equipment & Methods. Plek/Shevel hand tools excevation Gel-1.70m	Loca	tion.	NAIRO	BI RV	PAS	5		
COPERATION AGENCY	Grou	nd Levi		Coordin	*****		Date 25/7	1
Description	Reduced Level	Legend	Depth 8. Thickness	Sa	mples/	-		Field
	8 7	the second second	This of	Depth	Sar Type	npl€ No	Test	Records
Top soil to 0.2m. Reddish brown SILTY CLAY.	and the second	x   x   x   x   x   x   x   x   x   x						
END OF TRIAL PIT			huib	· ·				
			uluuluulu					
			u du cultur ciltur					
			and was breach.					
			u lun ha s					
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	r sample (P)Tube(I ble length I ford Penetr	nple J)or core o scale ation Test		x 5		<b>.</b>		Logged by J. O. Scale 1:50 Fig.

guipment & Methods. Pick/Shevel hand toole excevation 6.L-2.00n	Loca	tion.	NAIRO	)BI BY	- PASS		
Corried out for JAPAN INTERNATION	AL Grou	ne Leve		Coordin		Date	
COOPERATION AGENCY			. /.		7/90		
Description	Reduced Level	Legend	Depth 2. Thickness	a a construction da la construcción a construcción da construcción da construcción da construcción da construc	mptes/Tes Sample	1	Field Records
			å£	Depth	Type No		
		<u>× ×</u> _~_					
and a state of the		× ×	14400- 2041 1444				
Top soil to 0.25m.		<u>×</u> . × _ x					
Reddish brown SILTY CLAY.		·					
		<u>× ×</u>					
		<u>× . ×</u>	2.00				
	ľ						•
END OF TRIAL PIT							
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			E				
S.P.7: Where full 0.3 m penetration has not San been achieved the number of blows 0 C	nple / Test - H Naturbed : sai	ley. mple	Remar	ks			Logged by
for the quoted penetration is given .	Bulk sample Water sample						J. O. Scale
EPTHSAN depths and reduced levels in metres	Piston(P) Tube	U) or core to scale					1:50
column	Standard Penel	ration Tes	ų				Flg.
V.R.L: Water level observations during boring C are given on the last sheet of log.	Core recovery Core recovery Anch Cuglity De ROD	signation	A-112		ana da antica a seconda de secondo de second	3728752(1)938779	

Location. NAIROBI BY_PASS							
	nates	\$			Date 25/7	/90	
ample	/ Sam	es/Test Sample	Sample			Field Records	
e No rust	Type	ype No	pe No			<u></u>	
						:	
						Logged b	
						J.O. Scale 1:50 Fig.	
antri				on fragman for	ole a tri y nanzani tripina a fazzaria	an baya kunasan kunasa	

Mowlern Constr			Co. l	td.	Boreh Sheel		No. T >1 1	C 9
quipment & Methods. Plck/Shovol hand toole excevation G.L=1.40m	Loca							
Corried out for : JAPAN INTERNATIONAL	. Grou	në Lev	¢1	ROBI BY_PASS Coordinates Dat				7/90
				Sar	Field			
Description	Reduced Level	Legend	Depth 2. Thíckness	Depth	Sam Type	nple	Test	Records
Top soil to 0.2m. Grey humic SILTY CLAY.		¥ × ×	0,40					
Addish brown SILTY CLAY with gravel.		× • × × •	1. 1. 1. 1. 1.					
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E <sup>1.10</sup>					
Brown in situ tuff QRAVEL.		$\Delta$	- 1.40 -		++			<u></u>
Highly weathered non intact brown agglemeratic TUFF.								
END OF TRIAL PIT								
								·
						i		
		* .						
been achieved the number of blows D Distu	/Test N rbed sol	iey. nple	Remari	<b>( S</b>				Logged b J. O.
(Not N value) W Wate PTHS:All depths and reduced levels in metres Pisto	sample (r sample n(P)Tube( pie length	U) or cont in scale						Scale 1:50
Thickness given in brackets in depth Stan column V R L. Water Evel observations during boring C Core	ond Penet Test	nation Tes						Fig.

and the second se

guipment & Methods. Fick/Shevel hand tools excevation 8.1-0.50a		Location. NAIROBI BY., PASS										
Corried out for JAPAN INTERNATION	AL.	Ground Level Coordinates Date 25/7							7/90			
Description			R La	Sa	Field Records							
	State of the second	а.) С	<u>د</u>	ă £	D∉pth	Type	No	Test	and the conversion of the second states of the			
Top soil to 0.1m. Light grey CLAY.	$\square$		AQ.	0.50								
Moderately weathered pyroclastic TUFF with greenish grey pumice inclusions upto 5cm.	,											
END OF TRIAL PIT												
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				والتدار								
				يسطي								
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				111								
S.D.T. Where full fig an annitation has and the	mole /	Test H		Remar	L ks	- <u> </u>	<u> </u>		Logged t			
been achieved the number of blows D for the quoted penetration is given	Disturi Bulk s	ample	nple						J. O.			
(Not: N value) W EPTHSAll depths and reduced levels in metres	Piston(	sample P)Tube( Elength	U)or con to scale	r.					scole 1:50			
Thickness given in brackets in depth column W.R.L: Water level observations during boring C	Standa Vang T	nd Penet est	ration Tes	A-115					Fig.			

juipment & Methods. Pick/Shevel hand tools excevation G.L-2.00w	Loca	-ocation. NAIROBI BY_PASS								
DOPERATION AGENCY	. Grou	ind Leve	l	Coordin	ates	Date 25	17190			
Description	duced evel	2	£ 8	\$a)	mples/Te	sts	Field			
Description	Reduced Level	Legend	Depth L Thickness	Depth	Sampl Type N		Records			
		× ×								
γ Γ		<u>× ×</u>								
Top soil to 0.2m. Reddish brown SILTY CLAY		× ×	-							
with gravel.			-							
andra an an 👻 an		<u>, x</u>					l			
		× . ×								
			2.00			-	<u></u>			
END OF TRIAL PIT	- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14		Ē			i.				
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.P.T: Where full 0.3 m penetration has not Samp	le / Test	Key.	Remar	k s	wanthest summer have		Logged by			
been achieved the number of blows 0 Dis	turbed so Ik sample						J. O.			
(Not N volue)	ter sampl	e (11)ar an in			•		Scale			
PTHS:All depths and reduced levels in metres and reduced levels in metres and reduced levels in depth sa Sh	ton(P) Tube mple length indord Pime	to scale			-		1:50			
R.L: Water kivel observations during boring C Co are given on the last sheet of log.	re Test re recovery zouglity D	a demails -	A-116				Fig.			

Equipment & Methods Pick/Shevel hand tools excavation Gol-9a70m	Lóca	ition.	NAIRO	BI BY.	PASS	*****************	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	
Carried out for JAPAN INTERNATIONAL COOPERATION AGENCY	Grou	nd Lev	el	an a constant a state of the st				
Description	Reduced Level	Legend	Depth & Thickness	San Depth	Samples / Tes		Field Records	
Top soil to 0.1m. Reddish brown SILTY CLAY. Reddish brown SILTY CLAY with gravel. END OF TRIAL PIT		$ \begin{array}{c} x \\ x $						
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 (P)Tube(L le length t and Penetn	j)or core o scale ation Test		(\$	<b>II</b>	_ <b>_</b>	Logged by J. O. Scale 1:50 Fig.	

Equipment & Methods. Pick/Shevel hand tools	Loca		Co. I				No. 01 1	TC 13			
excavation G.L.f.COm	NAIROBI BY _ PASS										
Carried out for : JAPAN INTERNATIONAL COOPERATION AGENCY	Grou	nd Lev	el	Coordine	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩						
Description	Reduced Level Legend	Depth & Thickness	San	Field Records							
	й		ŏ £	Depth	Туре	mpie No	Test	RECOIDS			
Top soil to 0.2m. Reddish brown SILTY CLAY. With black ferruginous spets in lower zone 2.20-4.00m.		x x x x x x x x x x x x x x x x x x x									
	:	× × ×	E - 4.00								
END OF TRIAL 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 W.R.L: Water level observations during boring are given on the less sheet of log.	ed samj ample sample )Tube(U) length to dPenetra	ple )or cont scale tion fest	 Remark: A-118	5	L <b>1</b>	********		Logged b J. O. Scale 1: 50 Fig.			

orehole No. T	rc 14
- PASS	ŢĸĊĸŢĊĸĊĸĸŦĔijĸĊĸĔĬĸĊĸĸĸĸĿŢ
tes Date 27/1	7790
ples/Tests Sample Type No Test	Field Record
	: · ·
<u> </u>	Logged J. () Scale 1:5( Fig.

Mowlem Constru	ucti	on Co	. Ltd.		hole No. 1 of 1	
Equipment & Methods. Pick/Shevel hand tools excevation G.L-4.00a	Loca		ROBI E	3Y_ PA	55	ana di kale talikon ne kana kana di ka
Corried out for : JAPAN INTERNATIONAL COOPERATION AGENCY	Grou	nd Level		rdinates	Dat 27	le /6/90
Description	Reduced Level	Legend Depth E	ic the	Samples 50	mole	Field Records
<u></u>	[ æ _ ]	ָם <u>ד</u> <u>× × -</u>	E Dept		No Test	
Top soil to 0.05a. Reddish brown SILTY CLAY. END OF TRIAL PIT			00			
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) B Bulk s W Water	bed san sample sample	nple	narks			Logged by J. O. Scale
column V Vane T	(P) Tube() e length t and Penetri est ecovery uplity Des	ation Test	90			1:50 Fig.

Mowlem Constru		-	Co.			le No. ot 1	TC 16	
Equipment # Methods Pick/Shevel hand tools excevation G.L=2.00m	Loce	tion.						
COPERATION AGENCY	Grou	NAIROBI BY_ PASS Ground Level Coordinates				Date 27/7/90		
Description	Reduced	Legend	Depth 2 Thickness	San Depth	nples/Te Sampl	e ]	Field Records	
Top soil to 0.3m. Reddish brown SILTY CLAY. END OF TRIAL PIT					Type N			
			u la su la su de se d					
	•							
column V Vone Te	ed sam ample sample ) Tube(U length to d Penetra	ple )or core scale tion Test	Remark				Logged by J. O. Scale 1:50 Fig.	

Mowlem Constr	ucti	on	Co.	Ltd.	Borel Sheet			TC 17		
Equipment & Methods. Pick/Shavel hand tools excevation 5.1-3.70s	Loca	tion.	NAIR	DBI BY	_ PA	55		alitään avoiten lainaan on ainaan on ainaan on ainaa ainaa kuun kuun kuun kuun kuun kuun kuun k		
Corried out for JAPAN INTERNATIONAL	Ground Level Coordinates Da 27							1e 7/7/90		
Description	Re duced Level	egend	Depth 8 Thickness		nples/	/ Test: nple	and a state of the second state	Field Records		
	~		å £	Depth	Type		Test	ACCOLOS		
Top soil to 0.3m. Reddish brown SILTY CLAY. Highly weathered altered brown filme and medium grained TUFF with subangular punice inclusions upte 2cm, rare lava upto icm.		x x x x x x x x x x x x x x x x x x x								
			wheelers							
								:		
EPTHSiAll depths and reauced levels in metres Piston( Sample Thickness given in brackets in depth column	bed sam ample sample P)Tube(U r length to od Penetro	ple )or core scale ition Test	Remark	5				Logged by J. O. Scale 1:50 Fig.		

Equipment & Methods. Pick/Shevel hand teele exception G.L-2.258	Loca	*** 3×100,200,000 000-00-0	Co.	LIU.	Sheet	1 01	1 ]	TC 18	
Carried out for : JAPAN INTERNATIONAL	Ground Level Coordinates					Date 27/5	Date 2717190		
Description	Reduced Level	egend	Depth & Thickness	Sa Depth	mples/	nole	Test	Field Records	
Top soil to 0.3a. Reddish brown SILTY CLAY. END OF TRIAL PIT		× × × × × × × × × × × ×			Τγρε	No			
column V. Vore Ti	ample sample P)Tube(U) tiength to rd Penetra	ple )or core scole (lon Test		\$			1	Logged by J. (). Scale 1:5() Fig.	

mum Mowlem Co		Contractory Contractory of the local diversion of the local diversio		Co. L	_td.	Borel Sheel			TC 19
Equipment & Methods Pick/Shovel hand excevation G.L-2	teels 10m	Loca	tion.	NAIRC	)BI BY	/_ PA	SS		
COPERATION AGENCY	TIONAL	Grou	nð Lev	e1	Coordin	ates		Date 27/	7790
Description	an a	Samples/Te Samples/Te Samples/Te Depth Samples/		Samples/Tests		Field			
		8 8 9 9	× Legend	Depth 2 Thickne	Depth	Sai Type	nple No	Test	Records
Top soil to 0.3m. Reddish brown SILTY CLAY with black spets in bottom zone.			× × × × × × × × × × × × × × × × × × ×						
END OF TRIAL PIT			x	2.10					
				dunda					
			-						
.P.T; Where full 0.3 m penetration has no been achieved the number of blows for the quoted penetration is given (Not N value)	D Disturt B Bulk s W Water	ample sample	ple	Remarks	<b>5</b>				Logged J. () Scale
PTHSAII depths and reauced levels in metre Thickness given in brackets in depth column .R.L: Water level observations during baring are given on the last sheet of log.	s Pieton( sampin Standa	P) Tube(U t length to nd Penetro							1:5 Fig.

Mowiem Const Equipment & Methods. Pick/Shevel hand teele excevation G.L-2.20m		ation.	NAIRC		_ PA:	<u>1 of 1</u>	
Corried out for JAPAN INTERNATIONAL	Grou	Ground Level Coordinates Date					
Description	Reduced Level	Legend	Depth Beth Thickness	Sar	7190 Field		
a new construction of the second second second second and the second second second second second second second	<u>ě</u>	ردة	ĎĔ	D∉pth	Sarr Type		Records
Top soil to 0.25m. Reddish brown SILTY CLAY with black ferruginous spets in bottom zone.		× × × × × × × × × × × × × ×					
		× ×	E 2. 20				
an an an an Araba an Araba an Araba. An an Araba an Araba an Araba an Araba an Araba			Ē				
END OF TRIAL PIT		:					
			E	-			
				i.			
		<b></b>					
been achieved the number of blows D Disti for the quoted penetration is given B Bulk (Not N value) W Wate	/Test Ke whed sam sample tr sample	ple	Remark	5			Logged by J.O. Scale
THS:All depths and required levels in metres Pisto Thickness given in brackets in depth Sý Stan	n(P)Tube(U ple length ti dard Penetra	))or cone o scale		·			1:50
	Test recovery Cuglity Des	ignation	X-125	·			Fig.

MUM Mowlem Constr guipment & Hethods. Pick/Shevel hand tools	1	****	Co.	Ltd.	Borel Sheet	hole 1	No. of 1	TC 21				
excavation G.L.1.90m	Location NAIROBI BY_PASS											
OUPERATION AGENCY	Grou	ind Le		Co or dir	ales		Date 27/7/90					
Description	Reduced Level	Legend	Depth 2 Thickness	Sa Depth		mple	r	Field Records				
Top soil to 0.3m. Reddish brown SILTY CLAY with black ferruginous impregnation in bottom zone.	α 	× × × × × × × ×			Туре	No	Test					
		× ×	E 1,90									
END OF TRIAL PIT							-					
			uluulu	·								
			Libral									
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	· · ·											
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column	ed sam ample sample P)Tube(U length k d Penetro	ple )or core o scale ation fest		5				Logged by J. O. Scale 1:50 Fig.				

Equipment & Methods. Pick/Shevel hand teels excevation G.L-3.50#	Loca	tion.	NAIR	OBI E	Y_P	ASS	5	yanan litiya yana ta Wesiyata ya ta ayo ta yo ka y
Corried out for : JAPAN INTERNATIONAL	Grou	27/				Date 27/	7/90	
Description	Reduced Level	Legend	Depth 8. Thickness	San Depth	pies/ Sar	nple	: Test	Field Records
Top soil to 0.4m. Reddish brown SILTY CLAY. Completely weathered light grey with green tinge altered fine grained TRACHYTE. END OF TRIAL PIT		x x x x x x x x x x x x x x x x x x x						
column V Vare 1	bed sam sample (P)Tube() ie length t ord Penetri	iple ))or core o scale ation Test						Logged by J. O. Scale 1:50 Fig.

mun Mowlem Constru	ucti	on	Co.	Ltd.	Borel Sheet		No. 1 01 ]	FC 23
Equipment & Methods. Pick/Shevel hand tools excevation G.L-2.80#	Loca	tion.	NAIR	DBI BY	1 _ P4	۹SS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
Corried out for : JAPAN INTERNATIONAL COOPERATION AGENCY	Grou	nd Lev	el	Coordi	nales		Dote 27/	7/90
Description	Reduced Level	Legend	Depth 8 Thickness	Sc Depth		mple	s Test	Field Records
Reddish brown SILTY CLAY. Gempletely 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 x			Ţype			
5.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) EPTHSAU depths and reduced levels in metres Thickness given in brackets in depth column V.R.L; Water level observations during boring are given on the test sheet of log.	ed sam ample sample P)Tube(U length to d Penetro ist	pte )or core scale ition Test	Remark A-128			<u></u>		Logged b J.O. Scole 1:50 Fig.

Equipment & Methods. Pick/Shovel hand toole excevation: G.L=2,10m	Loco	ation.	NAIR	OBI B'	/_ PA	ss		######################################		
Corried out for JAPAN INTERNATION	AL Grou							11e 7/7/90		
Description	Reduced Level	Legend	Depth & Thickness	501	nples	/Test mple		Field Records		
NEW RECTON OF THE REPORT OF THE REPORT OF THE TRANSPORT OF THE REPORT OF THE REPORT OF THE TRANSPORT OF THE TRANSPORT		3 × ×	A	Depth	Type		Test			
Top soil to 0.25m. Reddish brown SILTY CLAY.		× × × × × × × × × × × × × × × × × × ×								
		× ×	2.10			<u> </u>				
END OF TRIAL PIT										
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		- - - - -						com g Camana and a state of the		
been achieved the number of blows D Dis for the quoted penetration is given # Bu	ole / Test - Ke iturbed sam ilk sample iter sample	ple	Remark	5				Logged by J.O. Scale		

Equipment & Methods. Pick/Shevel hand tools excavation 0.1-1.20#	Loca		NAIRO	BI BY.	PASS	-		
Corried out for JAPAN INTERNATIONAL	Groui	Ground Level Coordinates Date 2772						
Description	Reduced Level	Legend	Depth 2. Thickness	San Depth	ples/Te Sompl Type N	Fi <b>e</b> ld Records		
Colluvial deposit to 0.4m. Reddish brown SILTY CLAY.		× × × ×						
		× × ×	<u> </u>					
			1111					
END OF TRIAL PIT			shuut					
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			nu du tu basala n					
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			uufu					
			luul					
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			มในม					
for the quoted penetration is given B. Buik (Not: N value) W. Water	rbed sar sample r sample	nple .	Remark	13			Logged by J.O. Scale	
THE REAL DIVERSE OF MELLIKESS IN CRUTH LAR CLUBS	(P) Tubel de length and Peneti Test recovery aughty De	- I lan Tari					1: 50 Fig.	

Mowlem Constru	ucti	on	Co.		Borehole Sheet 1		C 26
Equipment & Methods. Pick/Shevel hand toole excevation G.L-1.40m	Loca	tion.	NAIR	OBI B	Y_PAS	5	Mirindi hamadina di Sati k, qu ta matani dana Sira (kigi ki
Corried out for JAPAN INTERNATIONAL COOPERATION AGENCY		nð Lev	·	Coording	ntes	Date 27/7	/ 90
Description	Reduced Level	gend	Depth & Thickness	San	nples/Test	\$	Field
	Red F	້ອງ	Thick D	Depth	Sample Type No	Test	Records
Light brown GRAVEL of trachyte fragments in silty clay matrix (fill).		0000	E 0.20			:	
Top soil		× ×	E0.40				·
Reddish brown SILTY CLAY.		× ×	11				•
		× · · ×	E1, 40	· · · · · · · · · · · · · · · · · · ·			
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END OF TRIAL PIT							: : 
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	1		<u> </u>				
S.P.T: Where full 0.3 m penetration has not Sample ( ) been achieved the number of blows D Disturb	ed sam		Remark	5	. •		Logged by J.O.
for the quoted penetration is given. D. Bulk st (Not N value) W. Water	sample		·				Scale
Se Standar	P) Tube(U length to d Penetro	for core scale tion Test		· .			1:50
V Vone Te	st wvery glity Desi	1	<b>∆</b> -131			•	Fig.
South and the second se	10	anna ann an	er ave		287.000223400000000000000000000000000000000	Second day and a second day to another	

quipment & Methods: Pick/Shevel hand tools excavation G.L-1.ton								ŎŶġġĸĸĊĬġŔĿġĨŦĸĸĊĸĊĸŎġĊġŔĿĸĊĬĸĿĬĸĸŎĿŔĸĬĬŎĸĬŢĹ
arried out for JAPAN INTERNATIONAL	NAIROBI BY_PASS Ground Level Coordinates Da							ŎŦĊŨŧĊĬĊŦŎġŎĊĸĸĸĸĊŊĸŢĊĿŎĊĸŔĸŎŎĿŎŢĿŢ
OOPERATION AGENCY		πα - <b>6€</b> Υ	<b>u</b> t	Coordini	ates		Date 27/	: /7/90
	y z z			Sar	nples,	Test		Field
Description	Reduced	Legend	Depth E Thickness	Depth		mple		Records
Light brown GRAVEL of trachyle fragments in slity clay matrix.		100000	<u>+</u> +	Na ana amin'ny fanana	Туре	No		and the second state and the second state of t
Reddish brown with grey patches		X X	E 0.30					
SILTY CLAY with root fibres (fill).		× ×	E 0.80					:
Reddish brown SILTY CLAY.	Į.	1 ^	E 1.10					
			E		ł			
			E I					
END OF TRIAL PIT			E					
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P.T: Where full 0.3 m penetration has not Sample / been achieved the number of blows D Disturb			Remarks	• • • • •				Logged by
for the quoted penetration is given B. Bulk s	ample	pie						J.O.
THS:All depths and reduced levels in metres    Piston(	sample P)Tube(U) length to	or core						Scale
column	a Penetra	scale tion Test						1:50
	st overy gjity Desi	gnation	A-132					Fig.

Mowlem Constru		Co.	Ltd. s	Borehole heet 1	e No. of j	TC 28
Equipment & Methods. Pick/Shovel hand tools excevation 6.L-1.10m	Location.	NAIR	)BI BY.	_ PASS		
Carried out for : JAPAN INTERNATIONAL	Ground Level Coordinates			162	Doti 27/	, 7790
Description	Reduced Level Legend	Depth L Thickness	Sam Depth	ples/Test Sample Type No	s Test	Field Records
Brown gravelly SILTY CLAY, occasional trachyte cobbles. Reddish brown SILTY CLAY with some fine gravel (fill).	¥. × × *					
Reddish brown SILTY CLAY (fill).	××.	E 				
END OF TRIAL PIT		, 				
column V Vane Tes	rd sample imple iample ingth to scale ingth to scale i Penetration Test		3	. <u></u>		Logged by J. O. Scale 1:50 Fig.

Equipment & Methods: Pick/Shevel hand tools Location. excevation C.L-4.00m NAIROBI BY_PASS								
Corried out for : JAPAN INTERNATIONAL	Ground Level Coordinates			ne s	Date 277	7190		
Description	Reduced Levei	Legend	Depth L Thickness	San Depth	ts Test	Proorde		
		x   x   x   x  x   x   x   x		and - Panderspectrope, Verbeingen				
Top soil to 0.3m. Reddish brown SILTY CLAY.		× × × × × × × ×						
		× × × × × × × ×						
		. <u>×</u> . × . <del>×</del>	E 4.00					
END OF TRIAL PIT				•				
			shundara baa					
S.P.T: Where full 0.3 m penetration has not Sample / been achieved the number of blows for the quoted penetration is given B Bulk s (Not N value)	bed san sample sample	nple	Remark	5			Logged by J. O. Scale	
PTHSAII depths and reauced levels in metres Piston Thickness given in brackets in depth Sé Stando column	(P) Tube(i le length i and Penetr	U) or cone to scale ation Test					1: 50 Fig.	

quipment & Methods. Pick/Shevel hand teole excavation G.L.1.000	Location. NAIROBI BY_PASS							
Corried out for JAPAN INTERNATIONAL	Groui	Ground Level Coordinates Dat 27/						
Description	Reduced Level Level Legend Depth Thickness		Saı D∉pth	Field Records				
Top soil to 0.3m. Reddish brown SILTY CLAY.		× × · · · · · · · · · · · · · · · · · ·	999995 - 94 January III (1964) 	Type No				
END OF TRIAL PIT								
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		اعديدا						
		î culturu						
		huulu						
P.T: Where full 0.3 m penetration has not Sample	/Test Ke	Iy. Remark	ks			Logged by		
been achieved the number of blows for the quoted penetration is given (Not N value) THSAN depths and reauced levels in metres same	rbed sam sample r sample h(P)Tube(L he length b	iple i)or core o scale				J. O. Scale 1:50		
column	and Penetro	ation lest				Fig.		

Equipment & Methods. Pick/shavel hand teels excavation 2.1~2.70=	Location. NAIROBI				I BYPASS			ROAD		
Corried out for JAPAN INTERNATIONAL	AL Ground Level		Coordinates				Date 23_26/9/91			
Description	Reduced Level Legend Depth E	Samples/Tes Depth Sample			t s	Field Records				
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 late GRAVEL( $\phi$ 0.3cm). Dry soil, Dug by pickaxe.	<b></b>	× × × × × × × × × × × × × × × × × × ×	(50) (50) (50) (1,60)	1.00_ 1.30	¶ ¶ ♥	No Bì	Test	·····		
Highly weathered light brownish grey agglomeratic TUFF. Dug by pickaxe.		A A	60)	2.50, 2.70	1	BZ				
			•							

Equipment & Methods. Pick/ehovel hand teele	Loca	No. of the local division of the local divis	Co.	<u>(E.A.)</u>	Ltc	1.		hok NaTC3
excavation &.L-3.10m	or the second second		NAIR	OBI BY	PAS	S	RO.	AD
Corried out for JAPAN INTERNATIONAL	Groui	nd Lev	el	Coording	ates	1997 <del>979-1-1-1-14</del>	Date 23_	26/9/91
Description	duced evel	P	e k	5an	nples /	Test		Field
Jescrip (Ion	Reduced Level	Le gend	Depth E Thickness	Depth	Sam Type		Test	Records
		× × ×					ACTIVITIES CONTRACT	a de la calencia de l
Reddish brown SILTY CLAY with root fibres in upper zone and black ferruginous impregnation in lower zone. Dry soil, Dug by pickaxe and scooped by shovel.		× × × × ×	(07'Z)					
		. <u>×</u> . × ×	11	1.80_2.20		81		
Reddish brown mottled black nodular fine lat GRAVFL Dry soil, Dug by pickaxe.	eritic	0000	z.40 2.60					
Reddish brown SILTY CLAY with tuff gravel. Gravel is completely weathered		AX.A	(0°°0)	3.00_ 3.40		B2	-	
light brown tuff as in situ. Dry soil, Dug by pickaxe.		<u></u>	C 3. 40				· · ·	······································
			ih					
	- - -							· ·
		·						
		н.						
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 resuced levels in metres Piston(P	id samp mple iample	ile	Remark:	<u>_</u>	<u> </u>		<u> </u>	Logged by J. O. Scale
Thickness given in brackets in depth Standard column V Vane Tes	i Penetmi	ion Test	A-137					1:50 Fig. 4

Equipment & Hethods. Pick/shevel hand excevation e.L.1	teels.	Loce	ition.	,	OBI BY		is	ROA	1 ] of ] D
COOPERATION AGENCY	ATIONA	. Grou	nd Lev		Coordina			Date	*********
Description		Re duced Level	Legend	Depth & Thickness	Sam Depth	ples/ Sar	npie	s Test	Field Records
Light grey CLAY with grass roots to Crack grew, Dry soil, Dug by picks		U.	· · · · · · · · · · · · · · · · · · ·	1 1 1 1 (0, 70)	0.40 0.20	Type †	No B1		
Hightly weathered light grey pyroclastic TUFF.Becoming slightly weathered at bottom. Dug by pickaxe.			<u></u>		0.40_0.70		BŻ	Block	sample
				uluu luu					
			:	uhuuluu			-	•	
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 reauced levels in metres Thickness given in brackets in depth	Sample / Ti D Disturbe B Bulk sa W Water s B Piston (P	id samp imple iample	orcore	Remarks	8				Logged by J.O. Scale 1:50

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丽山 Mowlem Constru	Loca		Co.	(E.A.)	Lto	1.		nok Natus 1 of 1
Equipment & Methods. Pick/shovel hand toole exception 6.L-1.50a	Loca	[10].	NAIR	OBI BY	/PAS	s	R0/	٩D
Corried Out for JAPAN INTERNATIONAL	Groui	nd i.ev	el	Coordina		Date 23.	26/9/91	
	5	l p	_ į	Sam	ples /	Test		Field
Description	Reduced	Legand	Depth B Thicknes	Depth	Sar Type	mpl∉ No	Test	Records
<ul> <li>Grey CLAY with abundant root</li> <li>fibres top 20cm becoming rare</li> <li>downward.</li> <li>Crack grew, Dug by pickaxe.</li> <li>Orange mottled black nodular fine laterltic</li> <li>GRAVEL (φ0.2-0.3cm). Dug by pickaxe.</li> <li>Hightly weathered light grey</li> <li>Pyroclastic TUFF of angular</li> </ul>			(06.0) 90 (06.0) 90 (0.90) 40 (1.50)	0.20_0.50		B2.	Block	sample
dark grey pumice inclusions upto 3cm in fine grained matrix. Dug by pickaxe.								
							-	
			s va slavar lat r					
			der ísle est					
		-						
								-
micanes given in anackets in deptin   50 Standa	ample sample P)Tube(U length to	ple )or core )scale	Remark		<u>-</u>			Logged by J. O. Scale 1:50
column V Vone Te			λ-139	rana, taf saddhiit dalarrishiinta	-dalgas s-actores		Rans Gaz Malanda	Fig. 6

Equipment & Methods. Pick/shevel hand excevetion &.L-	l teels 1=30m	Loca	tion.	NAIR	OBI B	YPA	SS	RÖ	AD
COOPERATION AGENCY	ATIONAL	Groui	nd Lev	¢I	Coordina			Date	
Description	₽₽₽₽₩₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽	je je	p	Depth E Thickness	Sam	amples/Tests			Field
Description		Reduced Level	regend	Thick P	Depth	Sar Type	nple No	Test	Records
	<b>,</b> :	:	××						AND A CONTRACTOR OF THE OWNER OF
Reddish brown SILTY CLAY with root fibres in upper zone. Dry soil, Dug by pickaxe and Scooped by shovel.			× × × × × ×	(08.1) 30	1.00_1.30	1	B1		
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andra an					-				
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		L eg						-	
.P.T: Where full 0.3 m penetration has no been achieved the number of blows for the quoted penetration is given	Sample / D Disturb B Bulk s	ed sam		Remark	\$	ł	4		Logged by J. O.

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Equipment & Methods. Pick/shovel hand tools excevation \$.L+4.20m	Loca	tion.	NAI	ROBI E	BYP.	455	R	OAD
Corried out for JAPAN INTERNATIONAL	Grou	nd Lev	el	Coording	tes	*****	Date	26/9/91
Description	Samples/1 Samples/1 Depth Jane		/Test	an a	2079791 Field			
	ч у К	the second second		Depth	Sa Type	mple No	Test	Records
Reddish brown with grey humus SILTY CLAY with root fibres.		× ×	E 0, 2 0 E					· .
Reddish brown SILTY CLAY with occasional roots.		· <u>×</u> . <u>× ×</u> .	(), 50)					
Dry soil, Dug by pickaxe and Scooped by shovel.		× × × ×						
na internet and		× ×	E 1.70					
Reddish brown with black ferruginous impregnation SILTY CLAY. contain		× × ×	(0 t			-		
lateritic GRAVEL( $\phi$ 0.2~0.3cm) in 2.9~3.8m depth. Dry soil, Dug by pickaxe.		× ×	5	2.90_ 3.20	1	81		
		XX	E E 3 80					
Hightly weathered light yellowish brown pyroclastic TUFF, with black ferruginous staining.		3.: 0 	- 9	4,00_4,20	 	82		
Dug by pickaxe.								
								r
	-		-	:				
						- -		
	5							
P.T: Where full 0.3 m penetration has not been achieved the number of blows for the quoted penetration is given B Bulk sa	td samp		Remark	5	da			Logged by J. O,
(Not N value) PTHS:All depths and reduced levels in metrics Thickness given in brackets in depth Sample I Sample I	iample )Tube(U)a length lot	or core scale Ion Test		·				Scale 1:50
V Vone Tes			A-141					Fig. 8

Equipment & Methods. Pick/shovel hand tools excavation G.L =1.00m	Locat		NAIRO	DBI BY	PAS	s	ROA	D
COOPERATION AGENCY	Groun	d Lev	ei	Coordina	les	*****	Date 23_26/9/9	
Description	Reduced Level Legend Dcpth E		Samples/Test Depth Sample			ts Field Test Record		
Light grey CLAY with root fibres. crack grew, Dug by pickaxe. Orange brown mottled back nodular. fine lateritic GRAVEL( $\phi$ 0.2~0.3cm). Highly weathered light grey		0 0		0.20_0.40 0.20_0.40	11 11	No B 2		sample
Pyroclastic TUFF of dark grey pumice inclusions upto 1cm in fine grained matrix. Slightly weathered at bottem.								
		-						
								, , , , ,
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) W Water s	id samp mpte	le	Remark	5	A			Logged by J. O. Scale

Equipment & Methods. Pick/Shevel hand tecle excevation G.L-1.10m	Loca			PASS	01 ]	ĸŦĸĸĸġĸĸijĸĸĸĸġŦĸĊŦĊŔĸġţŔ <u>ĸĸţĸĸ</u> ġŔ
Carried out for : JAPAN INTERNATIONAL	Grou	nd Level	rel Coordinates			7/90
Description	Reduced Levei	Legand Depth & Thickness	Sa Depth	mples/Tes Sample	1	Field Records
Dark grey CLAY (Black cotton soil).		× × - * . * .		Type No		
Highly weathered non intact greyish brown phonolitic AGGLOMERATE.		0.70 2.1.10				· · · · · · · · · · · · · · · · · · ·
END OF TRIAL PIT						
		uluu luu				
		. Lussbarr				
		huuluu				
		li				
.P.T: Wivere full 0.3 m penetration has not been achieved the number of blows for the guoted penetration is given # Bulk is	bed sam		k S		<u> </u>	Logged by J. O.
(Not N value) W Water	sample (P)Tube(l ie length t and Penetn	J)or core o scale				Scale 1:50 Fig.

Mowlem Constr	ucti	on	Co.	Ltd.	Borel Sheet		No. ' of 1	TB2
quipment & Methods. Plok/Shevel hand tools excevation G.L1.90m	1.000	tion.	NAIR	OBI B	/ PA	SS		
arried out for : JAPAN INTERNATIONAL COOPERATION AGENCY	Grou	nd Le	vel	Coordir	ates		Date 25/	7/90
Description	Reduced Level	egend	Depth 2 Thickness	Sa Depth	mples/	/Test	S Test	Field Records
Dark grey slightly slity CLAY with rare lava fragments upto 10cm(fill)	<b>6</b> 2	×   		orbui	Туре	No		annala - Africa ar con agus a guis stant airean
Dark grey CLAY, trace gravel. (Black cotton soil).		× 0	E 1. 20					
Highly weathered vesicular grey phonelitic AGGLOMERATE.		<u> 21111</u>	1.90					
END OF TRIAL PIT								
			hunhun					
								:
			- Lindr					
			ulunt					
			huulu					
			uhuuh					
P.7: Where full 0:3 m penetration has not Sample / been achieved the number of blows D Disturb for the quoted penetration is given B Bulk s (Not N value) W Water	ed som ample sample	pl∉	Remark	3				Logged by J.O. Scale
THS:All depths and reauced levels in metres Piston( Thickness given in brackets in depth column	P) Tube(U) : length to no Penetra		A-144					1:50 Fig.

equipment & Methods. Pick/Shavel hand teals excavation 0.1.1.50m	Local	tion.	NAIRO	an fan sjûner in tier wat de sjan yn gefineryn. Dat	5heet Y_PA		( <b>4</b> ) (***********************	an a
Carried out for JAPAN INTERNATIONAL	Grour	nd Lev		Coordin	-		Date 25/	7/ 90
Description	Reduced Level	egend	Depth 2 Thickness	********	nples/	Tests		Field Records
Grey SILTY CLAY with some fine	ă, J	د ۲ ۲ ۲		Depth	Type		Test	
and medium gravel (fill). Dark grey CLAY (Black cotton soil).		· · · · · · · · · · · · · · · · · · ·	0.70					
Moderately weathered light brown agglomeratic TUFF of black subangular punice fragments upto 3cn in fine altered matrix.	-	<u>م</u>	1.50 					
END OF TRAIAL PIT								
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	· · · · ·		uluush					
	2	: 	vilua					
		11						
	•							
P.T: Where full 0:3 m penetration has not Sample / To been achieved the number of blows D Disturbe			Remarks					Logged by
for the quoted penetration is given (Not: N value) PTHS:All depths and reauced levels in metres Thickness given in brackets in depth column	umple sample )Tube(U) length to	orcone	·					J. O. Scale 1:50 Fig.

Mowlem Constru	uctic	on Co.	Ltd.	Boreho Sheel 1		TB 4
guipment & Methods. Pick/Shevel hand tools excavation Gal-1.000	Locati	ion. NAIF	OBI B	Y_ PASS		
OPERATION AGENCY		d Level	Co or d	Inates	• 17190	
Description	Reduced Levei	Legend Depth	S Depth	amples/Te	Tast	Field Records
Dark grey CLAY (Black cotton soil). flightly weathered light grey agglemeratic TUFF of angular pumice				Type No		ander af state of cardinal party and
fragaents upte 4cm in fine ashy matrix.			0			
END OF TRIAL PIT						
		L.L.L.L				
		<u>ihretter</u>				
		ılıtılıtı				
		Line line				
	а 1 - 1 - 1					
P.T: Where full 0.3 m penetration has not been achieved the number of blaws for the quoted penetration is given (Not N value) THS:All depths and recuced levels in metres Thickness given in brackets in depth Stondard	d sample mple ample ) Tube(U)o enath to se	e r core cole	rks			Logged by J.O. Scole 1:50

Mowlem Construction & Methods. Plek/Shavel hand toole excavation 9.1-1.004	UCti		Co. L	_td.	Borehol sheet 1 PASS		182
arried out for JAPAN INTERNATIONAL OOPERATION AGENCY	Grou	nd Lev		Coordin		Date 27/	7/90
Description	Reduced Level	Legend	Depth & Thickness	Sai Depth	nples/Tes Sample Type No	Tari	Field Records
Dark grey CLAY (Black cotton soil).		·	0.55	20-20-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0			
Light green in situ tuff GRAVEL. Moderately weathered applemeratic TUFF.		0000 00000 00000 00000	0.80				
END OF TRIAL PIT							
			h de la contra de con				1
	•						
59 Stonda	ed sam ample sample P)Tube(U tenath to	)orcone	Remarks	5			Logged by J. O. Scale 1:50
PTHS:All depths and reauced levels in metres Piston( Thickness given in krackets in depth column	P)Tube(U : length to	ition fest	۸-147				1

加山 Mowlem Constr		ويبيره ومستقبوه الكواف المرمعاتية ال	Co.	Ltd.			No. 01 1	TB6
quipment & Methods, Plak/Shevel hand teels excavation 0.2-0.65s	Loco	ation.	NAIRC	DBI BY.	_PAS	S		
DEPENDENT OF STATEMENT OF A CONTRACTIONAL DOPERATION AGENCY	Grou	ind Le	vel	Coordi	rdinates Da 27			7/90
Description	Reduced Level	Legend	Depth 8 Thickness	Sa Depth		mple	s Test	Field Records
Dark grey CLAY (Black cotton soil).		· · · · · ·		al Malaja Anti Indonesia (Katara Mala Anti-Antonio), a	Type	No		ning das de Entrés d'autoritation ang
Slightly weathered grey agglomeratic TUFF.	-	<u>Ά</u>	C 0.65			+		
END OF TRIAL PIT								
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na senten en el estador de la companya de la company La companya de la comp		-						
		-						
<ul> <li>T: Where full 0.3 m penetration has not been achieved the number of blows to the quoted penetration is given /li></ul>	sample	ple	Remarks	5				Logged by J.O. Scale 1:50
column L: Water level observations during boring are given on the last sheet of log.	nd Penetra Vest Roovery Sality Desi	gnation	A-148					Fig.

Mowlem Constru Equipment & Methods Pick/Shevel hand tools	uction Co. Ltd. Borehole No. TB 7 Location.									
excevetion G.L-O. 60m	NAIROBI BY_ PASS									
COPERATION AGENCY	Groui	Ground Level Coordinates Date 27171								
Description	Reduced Level	Legend	Depth 2 Thickness	Depth	Sa	Sample Type No Test		Field Records		
Dark grey CLAY (Black cotton soil).	<b>V4</b>	· · · · · ·		and the free states of the second	Type	No				
Elightly weathered grey agglemeratic TUFF.		<u>A:</u> A	E 0. 60	··		<u> </u>				
END OF TRIAL PIT										
			uu duu							
			Luui							
		-								
			الديراء							
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			1 Junit					1		
P.7: Where full 0.3 m penetration has not been achieved the number of blows for the quoted penetration is given (Not N value) THSAN depths and resuced levels in metres somple / T	ed samp imple	ot€	Remarks	<u>.</u> B				Logged J.O. Scale 1:5(		
column	d Penetrat	ion Test						Fig.		

Equipment 4. Methods. Pick/Shevel hand tools excevation Q.L.1.00m	Location. NAIROBI BY_PASS								
Carried out for JAPAN INTERNATIONAL	Ground Level Coordinates Date							7/90	
Description	Reduced Level	P	4 E	Şaı	Field				
DESCRIPTION	2 2 2	Legend	Depth L Thickness	Depth	San Type	No No	Test	Records	
Dark grey CLAY (Black cotton soil).								-	
Highly weathered brown altered agglemeratic TUFF.		A	0.65						
END OF TRIAL PLT									
				·					
				·					
	•								
			in the						
S.P.T: Where full 0.3 m penetration has not Sample / 1 been achieved the number of blows for the quoted penetration is given (Not N value) W Water	ed san ample	nple	Remark	3				Logged by J. O. Scale	
DEPTHS:All depths and reauced levels in metres Piston(I sample Thickness given in brackets in depth Standar column	P) Tube(i Vength i Nd Penetr	U) or cone to scale			τ			1:50 Fig.	

Mowlem Construction Co. Ltd. Borehole No. TB9 Sheet 1 of 1									
Equipment & Methods, Plak/Shaval hand tools excavation Q.L=0.808	Location. NAIROBI BY_PASS								
Curried out for : JAPAN INTERNATIONAL COOPERATION AGENCY	Groui	nd Lev	¢l	Co or din	Coordinates Date 27/				
Description	Reduced Level	gend	Depth & Thickness	Sai Depth	nples/	s Test	Field Records		
Dark grey SILTY CLAY (Black cotton soil). Orange brown mettled black nedular lateritic GRAVEL.		000000000000000000000000000000000000000	E 0.15		Туре	No			
Elightly weathered grey agglomeratic TUFF.		Δ <u>Δ</u>	C 0.65 0.80						
END OF TRIAL PIT			u da u						
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S.P.T; Where full 0.3 m penetration has not Sample /	Test Ke	Ry.	Remar	ks				Logged by	
been ochirved the number of blows for the quoted penetration is given (Not: N-value) EPTHS:All depths and reduced levels in metres Pieton	bed sam iample	ple						J. O. Scale 1:50	
column V Vane 1	and Percetro	ation Test	ľ	·				Fig.	

Equipment & Methods: Pick/Shovel hand toole •xcevetion 0.Ltd. Sheet 1 of 1 Location. NAIROBI BY_ PASS										
OPERATION AGENCY	AL									
Description		Level	Legend	Depth L Thickness	Sa	Field				
Land Company, and a future of processing a state of the special strategy by the first strategy of the special strategy of the			[دوع	ŏĔ	Depth	Type	mpie No	Test	Records	
Dark grey CLAY (Black cotton soil).		• • •	·							
Brown slightly sendy GLAY trace fine gravel.			·	1.00	2 .					
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END OF TRIAL PIT		· · · ·		111111						
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been achieved the number of blows D.D. for the quoted penetration is given B.R. (Not. N. value) W.Y.	nple / Te Xisturber Bulk sar Nater si Piston (P)	d san nple ample	npl∉	Remart	<b>KS</b>				Logged by J. O. Scale	
column	Piston (P) Rample H Standard Jane Test Core reco Jock (Cug)	Penetr t	ation Test						1:50 Fig.	