3.0 SITE LOCATION AND GEOLOGICAL OVERVIEW

3.1 Site Location:-

The Proposed Site for the Nairobi National Vaccine Facilities is located in the Kitengela Health Centre premises in Kitengela. Kitengela is located in Mavoko Municipality of Kajiado District of the Rift Valley Province of Kenya. It is approximately 35km east of Nairobi. It is 1580m above sea level.

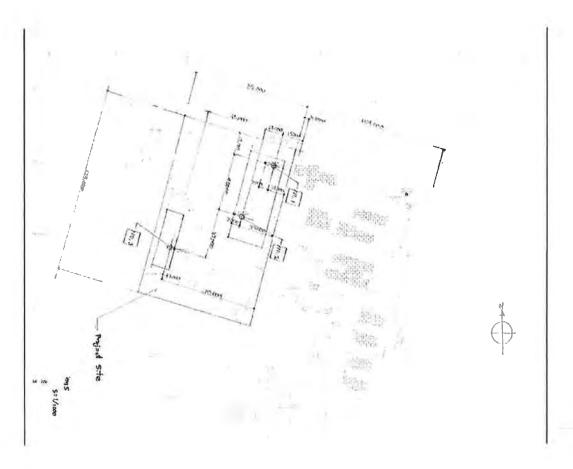


Figure I: Layout of Borehole Locations

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Observations

The site investigations have shown that the Kapiti Phonolites dominate this site. Black clay overlays the hard rocks.

7.2 Soil Bearing Capacities

The bearing capacities of the rock material and soil layers subjected to SPTs are as shown in the tables below.

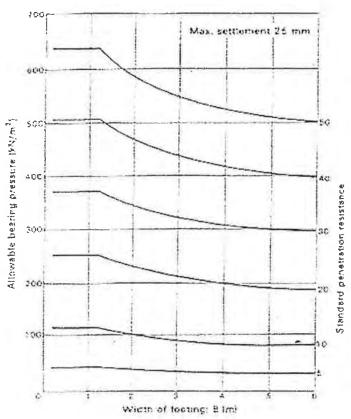


Fig. 8.8 Relationship between standard penetration resistance and allowable bearing pressure. (Reproduced from K. Torzaghi and R. B. Peck (1967) Soil Manhanies in Engineering Practice, by permission of John Wiley and Sons, Inc.)

Figure 1 Relationship between Allowable Bearing Pressure and SPTs.

ITEM	B/H No.	DEPTH(m)	N-VALUES	Safe Bearing Capacity (kN/m²)
1	1	2.45	37	375
2		3.55	95	1000
3	2	2.45	58	575

Table I. Safe Bearing Capacities from SPTs Test Results in the 3 Boreholes

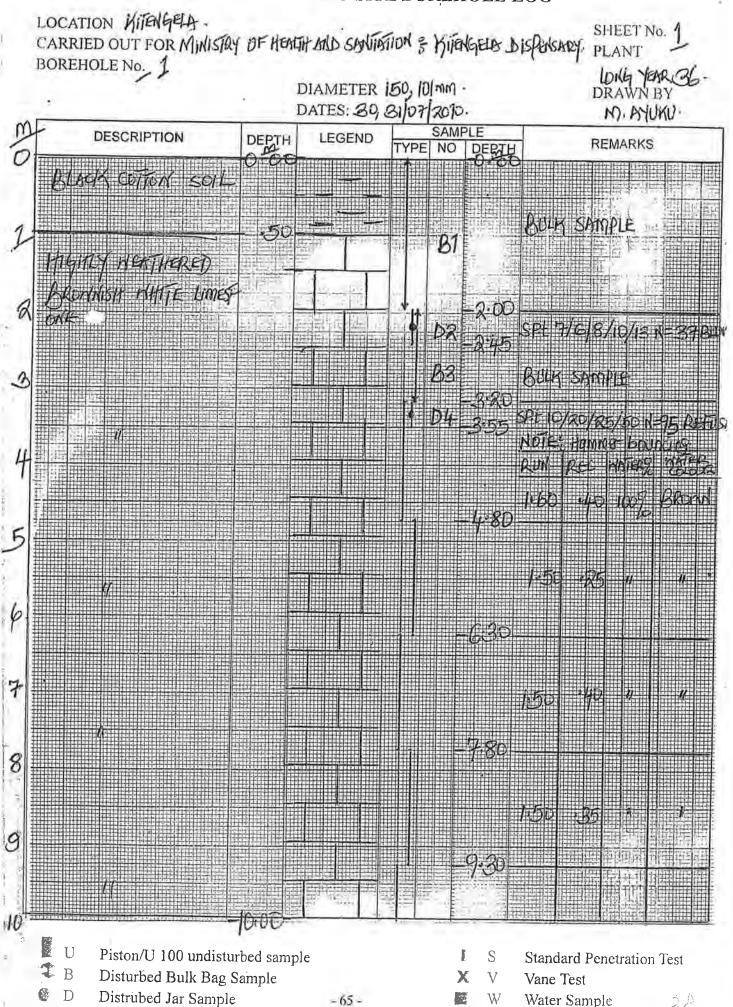
ITEM	B/H No.	DEPTH (m)	COMPRESIVE STREGNTH (N/mm²)	ALLOWABLE BEARING PRESURE (kN/m²)
1	1	2.45	-	375
2		4.00	-	375
3		6.00	•	500
4		7.50		1000
5		11.00	96.1	10,000
6		12.95	71.5	10,000
7		13.85	62.4	10,000
8		14.65	111.7	10,000
9		15.35	46.77	9,354
10		16.35	59.8	10,000
11		17.50	101.3	10,000
12		18.75	78.00	10,000
13		19.30	57.17	10,000
1	2	2.45	-	575
2	-	4.00	-	750
3		5.75	39.00	7,800
4		6.25	36.40	7,280
5		6.95	59.80	10,000
6		8.05	25.98	5,196
7		8.65	20.80	4,160
8		9.55	44.20	8,840
9		9.85	54.60	10,000
10		10.55	41.60	8,320
11		11.50	46.80	9,360
12		12.60	57.20	10,000
14		13.40	33.80	6,760
15		13.85	33.80	6,760
16		14.15	41.60	8,320
17		15.65	75.40	10,000
18		16.35	64.96	10,000
19		16.95	49.37	9,874
20		18.40	75.40	10,000
21		19.45	31.20	6,240
22		20.00	31.20	6,240

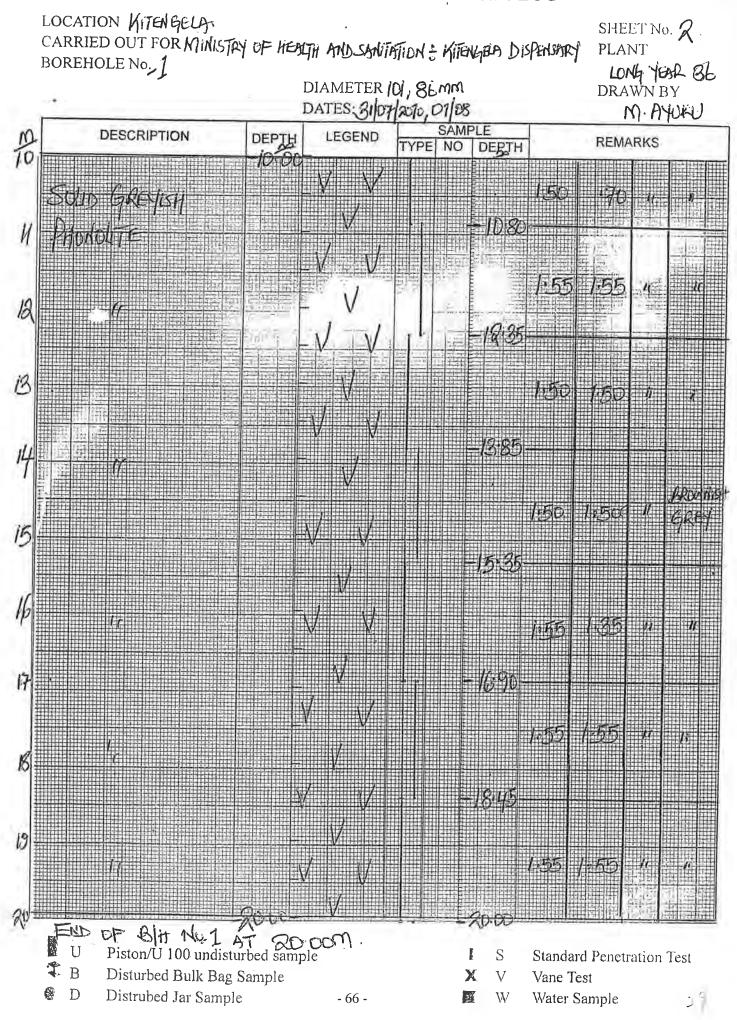
ITEM	B/H No.	DEPTH (m)	COMPRESIVE STREGNTH (N/mm²)	ALLOWABLE BEARING PRESURE (kN/m²)
1	3	2.50	104.00	10,000
2		3.90	124.00	10,000
3 .		4.40	90.90	10,000
4		5.50	101.30	10,000
5		6.75	70.20	10,000
6		7.25	62.40	10,000
7		7.50	72.80	10,000
8		7.90	62.40	10,000
9		9.00	28.60	5,720
10		9.80	62.40	10,000
11		10.85	67.40	10,000
12		14.75	88.30	10,000
13		15.95	26.00	5,200
14		16.90	52.00	10,000
15		17.40	62.40	10,000
16		18.60	78.00	10,000
17		19.80	75.40	10,000

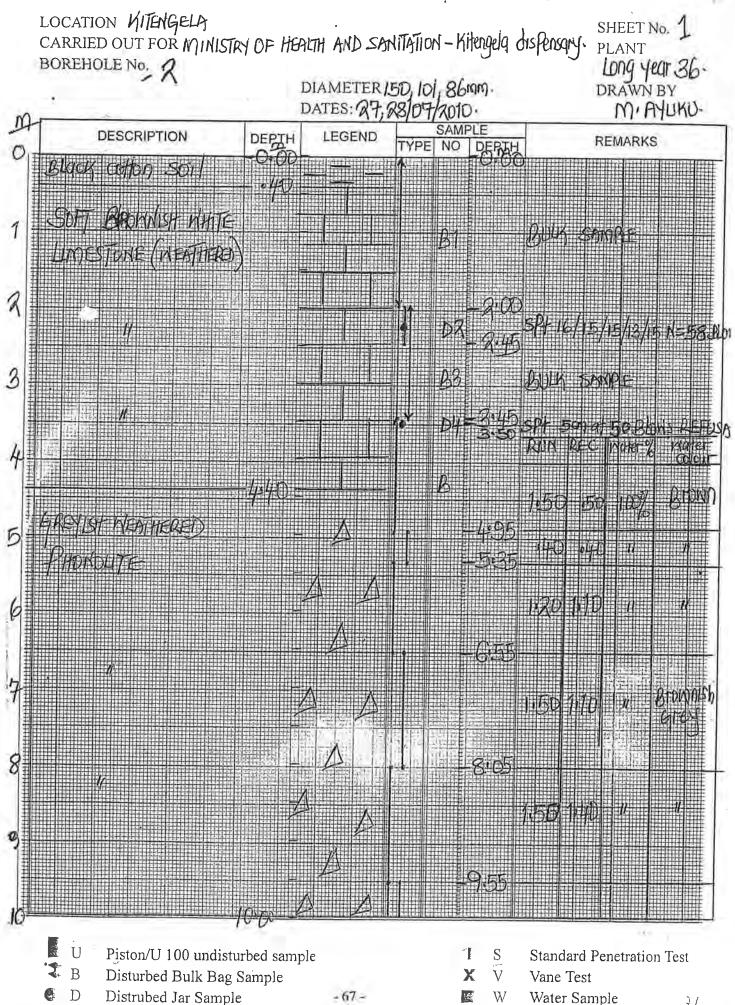
Table II:-Safe Bearing Capacities from Rock Core Compressive Strength Tests

Kitengela Health Centre is supplied with power by Kenya Power and Lighting Company which will be used in the new facility. The town is supplied with water by Mavoko Municipal.

	SHEET No. 8515/A		REMARKS															
			CALIFORNIA BEARING RATIO	Swell	*	1.1	1.2	1.2	1.1									
			RNIA BEAF	CBR	*	7	D)	2	2									
			CALIFO	Spaking	- "	4	4	4	4		1	П						
			NOL	9 9	m' Ratio	=	00	2	60			Ц	Ц				Ш	
SUMMARY OF SOIL	JLTS		COMPACTION	OMC MDD 8.G	% Mg/m³	30 1.31	19 1.39	22 1.41	14 1.59			11	IT	П		П	П	
IMARY	TEST RESULTS		0	75 mm	8								П			П		
SUN	TES S			30 es	8			H	+									
				37,5 50 mm mm	*	+	H	H	+		+	#	H			Ħ	+	
				75 3 mm mm	*	+	†	$^{+}$		117								
				61 E	zi.	1	T	T			1	11				11		
				12.7 mm	ø		П											
				9.5 III	¥					4.			П			П		
			Ð	6,35 mm	×.							П	Ш	Ш	П			
			GRADING	S mm	*	100	100	5	100									
			Ö	2 mm	_	82	12	88	72									
ğ		24/08/2010		× [62	22	8	8		T	T			71			
Operator.	FK	24/08/		009 HI	-	23	8	55	55			11		Ш				
5				425 HII	놼	7	8	83	83			11	$ \cdot $	Ш	Н		W.	
9	Checked:	Date:		300 Em	北	88	8	52	2		4							
				212 µm	y	29	8	0)	25			T					Tr.	
				150 ma	×	85	23	47	48			П				П		
		1.54		27 EFF	*	8	9	\$3	44								1	di .
	Kenya	neers, Inc.		Passing Plesticity 425 µm Modulus	*	2201	1848	1643	1590									
	acilibes in	s & Engir	RS	Linear Passing Plesticity Shrinkage 425 µm Modulus	*	7	98	53	53									
	Storage F.	Architec	RAMETE	Linear Shrinkage	×	9	14	16	14			1 1	1 1	T T				r.
SH/1008	Vaccine Storage Facilities in Kenya	Yokonawa Architects & Engineers, Inc.	ATTERBERG PARAMETERS	Plasticity Index	×	34	28	34	30	Natural Moisture Content (%)	46,2	14.2	9.2	14.0				
Project No. SH/1008	Project:	Clent:	ATTER	Liquid B	zř.	99	33	57	56	Natural Molstu Content (%)	46	7	oi.	*				
u.	ш	U		U	*	25	27	26	28	Sample Depth (m)	45	3,55	2,45	3,45				
	18641	in com		Natural Plast Molsture Limit	Content	26.2	0,	13.0	19.0	Sample (m)	2.45	8	2	6				
00509	Langata, Nairobi, Kenya Mobile: 254 773 210558/733 618641	FAX; 8890293			6	0.0-2.0	2.0-3.20	0.0-2.0	2.0-3.45	umber	+	-	2	2				
BRITECH LIMITED P O BOX 15130-00509	Langata, Nairobi, Kenya Mobile: 254 773 210558/	FAX; 8890293	LOCATION	Sample No. Sample Depth		B/H 1	B/H 1	B/H 2	B/H 2	Sample Number	B/H 1	B/H 1	B/H/2	BH2			ľ	







DIAMETER 86MM

LOCATION HITENGELA CARRIED OUT FOR MINISTRY OF HEALTH & SANITATION - WIENERS DISPOSORY BOREHOLE No. X

SHEET No. X PLANT Long year

	DATES: 28	09/2010	MAYUKU
DESCRIPTION	DEPTH LEGEND	SAMPLE TYPE NO DEPTH	REMARKS
BACYSH PHONOLIC			155 155 " " "
ij Wijter Tekus			
GREYEN FAMILIE		-//:60 	150 (BD , , ,
и	<u> </u>		
			1 <i>5</i> 55 " *
		1 = u 5	
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		1 BB	
<i>V</i>			1.50 1.50 11 1
		+ = 4:5	
K			50 A50 11 °
		18:65	
<i>ii</i>		J.	35 135 n - u

- 68 -

V

X

Vane Test

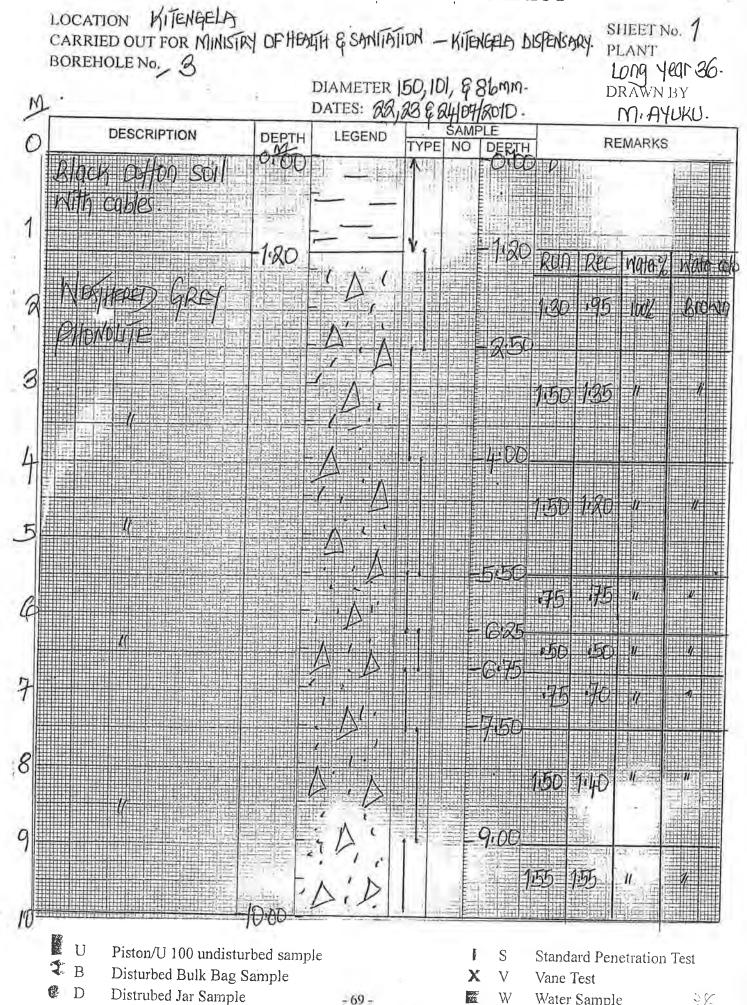
Water Sample

Disturbed Bulk Bag Sample

Distrubed Jar Sample

₽ B

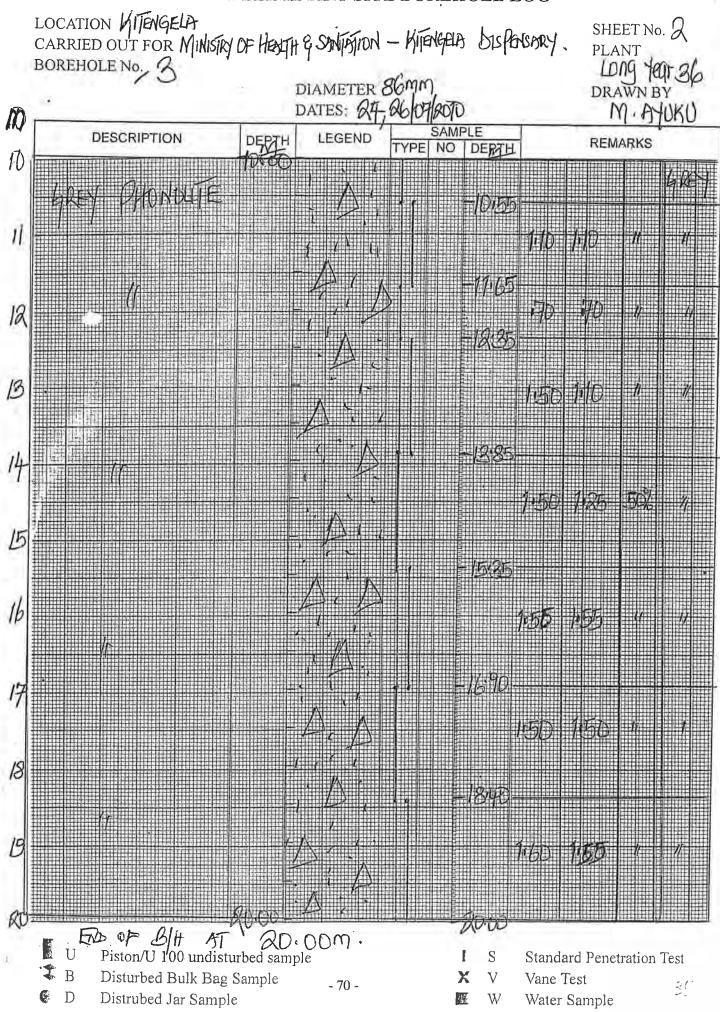
D



- 69 -

W

Water Sample



3.0 SITE LOCATION AND GEOLOGICAL OVERVIEW

3.1 Site Location

The Proposed Site for the construction of Vaccine Storage Facilities is in Kakamega Town on the compound of Kakamega General Hospital. Kakamega Town doubles as the Headquarters of Western Province, Kakamega District of Kenya. It is about 30km north of the equator and 52km north of Kisumu at 1500 metres above sea level.

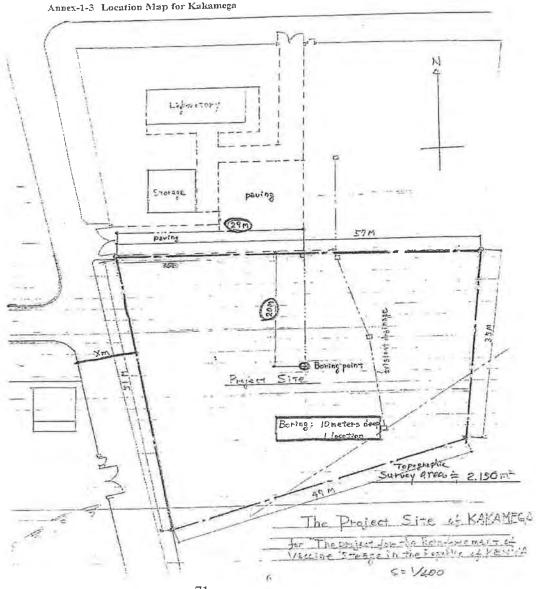


Figure 1: Project Site in Kakamega

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Observations

The site investigations have shown that clay soils dominate the site. Kakamega Hospital is supplied with power by Kenya Power and Lighting Company which will be used in the new facility. The town has a reliable water supply from the local statutory authorities.

7.2 Soil Bearing Capacities

The following allowable bearing capacities can be used by the Structural Engineer: -

TOTAL A	DEPTH	'N' Values from	Allowable Soil Bearing
ITEM	(m)	S.P.T (m)	Pressure(kN/m ²)
1	1.95	13	70
2	2.95	6	70
3	3.95	16	150
4	4.95	14	140
5	5.95	18	70
6	6.95	7	70
7	7.95	17	155
8	8.95	10	105
9	9.95	22	235
10	10.95	22	235

APPENDIX	SHEET No. 81677A		REMARKS		Red CLAY	Red CLAY	Natural Moisture Content (%)							T.
N. N.	105		CALIFORNIA BEARING RATIO	Swell	6:0	6.0	Sample Depth							
			RINA BE	CBR	9	c)	mper					П		
			ALIFO	Soaking	4	4	Samole Number			11		П		
				0 1	2.8	2.7	5		11					
O.L.			ACTIC		1.4	r.								
SUMMARY OF SOIL	TEST RESULTS		COMPACTION	OMC MDD	8	38	2			H	H		П	
MAR	TRES		Ť	75 mm			Natural Moleture Content (%)	31,0	24.2	40.4	39.4	42.5	33.6	
SUS	TES			50 63 nm mm			Gord	63			"			
				E	+		11-	H	+	+	+	H		H
				-		+++	Septh -				10	0	10	
				19 25 mm mm			Sample Depth	8.50	8,95	9.50	9.95	10.50	10.95	
				P-			S.		H				8	
				9.5 mm	e			T	\top	11	Π	\Box		
			S NG	6,35 mm			Sample	D31	D32	D35	D36	D39	D40	
			GRADING	, F	두				Ш					
				THE 3	6)	100								-
(ear)	-1	8/4/2010		1.18 mm	01	8	atria structura		И					
Operator Lab team	FKW	8/4		125 600 Im µm	10.	86 2	Natural Moisture	31.9	11,4	28.6	29.0	31.1	28.7	29,4
perator	Checked	Date		300 425 µm µm	0,	96 97	Natur		13	11			П	Н
0	0	0		Z12 3		95	£	Ħ				T	Ħ	Ħ
				150 Et 3		94	Sample Depth	4.95	5.50	5.95	6.50	6.95	7.50	7.95
				27 EH :	88	8				Ш	11	П	11	
	1748	S. Inc.		Prasticity	2697	2716	Samile Number	016	D19	020	023	DZ4	D27	D28
	lies in Ker	Engineer	S S	Passing Prasticity 425 µm Modulus	63	97	Simus	0		D				
	rade Facili	rchitects &	AMETER	Uneer Fassing Plastiony Shrinkage 425 µm Modulus	13	12								
H/1008	Vaccine Storage Facilities in Kerrya	Yokaqawa Architects & Engineers, Inc.	ATTERBERG PARAMETERS	Prasticity to	50	28	pleture 1 1961							6
Project No. SH/1008			TTERB		09	09	Natural Moisture	33.0	32.6	29.4	5.9	31.1	29.1	38.9
Pro	Project	Client		stic Liquid		32	TA COLOR				+	+		
		-		Natural Plaetic Molsture Limit Content	32	42	Sample Depth	1,50	1.95	2,50	2.95	3,50	3.95	4.50
D 9	nya	Honeson.	_					1	++	-	- 1	+	++	
BRITECH LIMITED	Langata, Nalrobl, Kenya TEL: 890861/890449	FAX: 890293	NOI	Cop Dog	3-6m	6-10m	- Montered	53	8	70	08	011	D12	015
RITECH	angata, N EL: 89086	FAX: 890293	COCATION	Sample No.	SA-1	SA-2	olome?							

PRELIMINARY SITE BOREHOLE LOG

LOCATION VACCIME STORMELLAKAMEGA

Disturbed Bulk Bag Sample

Disturbed Jar sample SDARPEDAIN

CARRIED OUT FOR:

BOREHOLE NO: 1

BRITECH

DIAMETER: 150mm

DATES: 18/03/2010

SHEET No.

PLANT:

D90 R

DRAWN BY:

T. NIL AVI

Vane Test

Water sample

					SAMPL	E	
	DESCRIPTION	All Inches and the	LEGEND	TYPE	No	DEPTH	REMARKS
	ili. National desiration of the contract of th	0,00	===	1	61	1.09	eng Lample
η R _E	DOUNCLAY				02	1.45	u/100 - 11 81 mus
	Company of the compan				D3	1.50	SP14/3/4/3 N=1
0					B 67	12.50	Egg Sample Ulloo - 34 Blows U- Shoe
n line		k			89 99 410	2.95 3.45	SP.1 2/2/2/1/11 11=10 Bag Sample U/100-21 Blows
7					D12 D13 U14	3.95 -4.00 4.45	U-Shae SPT SI4141315 H=1 Bag Sanyoli Uliop - 22 Blows
7				A	D16 D16 U18	4.95 -5.00 5.45	eag lample
)				1 8	N 22	5.95 6.00 6.45	U-Shole SPI 4 S S 3 S H=1 Bag Somple Ulios = 23 Blows U-Shole
1			Administration of the state of		D 24 B 25 U 26	7.00 7.45	S.P.1 2/1/2/2/2 7= 699 Lample U/100-34 Blows
n					D 28 D 29 U 30 D 31	8.00	U-shoe S.p.7 51414 514 M Bag Sample U 100-26 Blows
Į,	D dM	9.00			D 37 B 33 U 34	8.95 9.00	U-Shoe S:R1 2 3 2 3 3 H=1 Cag Sampu U 100-30 Blows
J.	ILEWISH CLAY	10.00			D 35 D 36 B 37		u-shoe. s.p.7 6 s 6 6 s H=

PRELIMINARY SITE BOREHOLE LOG

VACCIME STORAGE KAKAMEGA

SHEET No. 2

CARRIED OUT FOR:

LOCATION

BRITECH

DIAMETER: 150mm

BOREHOLE NO:

DATES: 15/3/2010

PLANT:

Standard Penetration Test

Vane Test

Water sample

Х

- 75 -

D90R

DRAWN BY:

							1. 40	SAVI
DESCRIPTION	DEPTH	LEGEND		SAMPLE		R	EMARK	(S
DESCRIPTION LELOWING LAY		LEGEND	TYPE	No	DEPTH		- 40 - 40 - 416	(S

Piston/U 100 undisturbed sample

Disturbed Bulk Bag Sample

Disturbed Jar sample

В

3.0 SITE LOCATION AND GEOLOGICAL OVERVIEW

3.1 Site Location

The Proposed Site for the construction of Vaccine Storage Facilities is within the premises of Meru General Hospital, in Meru Town. Meru Town is well known for the big surrounding farms of miraa (khat) and Meru its proximity to National Park.

Meru Town is the headquarters of Meru Central District in the Eastern Province of Kenya. It is located on the northeast slopes of Mt. Kenya and five miles north of the equator. It is 1600 metres above sea level.

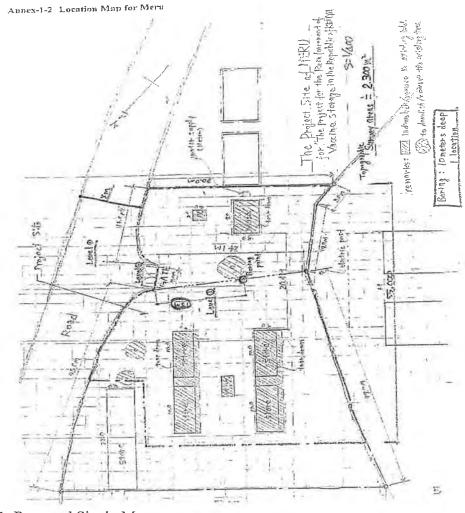


Figure 1: Proposed Site in Meru

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Observations

The site is dominated by fine grained clays. Meru General Hospital receives electricity from the Kenya Power and Lighting Company and has a reliable water supply from the Municipal Council.

7.2 Soil Bearing Capacities

The following allowable bearing capacities can be used by the Structural Engineer: -

ITEM	DEPTH (m)	'N' Values from S.P.T	Allowable Soil Bearing Pressure(kN/m²)
1	1.95	11	100
2	2.95	14	110
3	3.95	17	155
4	4.95	. 18	190
5	5.95	21	155
6	6.95	17	155
7	7.95	21	190
8	8.95	20	140
9	9.95	14	140
10	10.95	- 24	250

APPENDIX	SHEET NO. STUTUS		REMARKS		Red CLAY	Red CLAY	Natural Moisture Content (%)							
			CALIFORNIA BEARING RATIO	Swell	12	1.0	Semple Depth (m)							Site Location: Meru
			RNIA BE	CBR	8	2	umber	1						Site Lo
			ALIFO	Soeking	4	4	Sample Number							
					2.8	2.8	S							
애			ACTIO	MOD S.G	1.3	6.					7 10			
SUMMARY OF SOIL	TEST RESULTS		COMPACTION	75 OMC MOD IS.G	37	93	1							
MARY	T RES		_				aturel Moistu Content (%)	32.5	33.7	33.8	32.0	30.6	27.3	
SUM	TES			50 63 mm mm			Naturel Molsture Content (%)		"	,,,		1		
				16	+		2		-	+	-	+		
				25 37.5 m mm			- tage						10	
			١.	E	8		Sample Depth	8,50	8.95	9,50	9,95	10.50	10.95	
	-			-			- BS							
					8				T	\dagger		11		
			<u>ত</u>		*		Sample	D31	D32	D35	D36	D39	D40	
			GRADING	W E	4		0.2			100	1			
			O	, mm	8									-
E E		8/4/2010		1.18 mm	*		e na							
Lab team	FKW	8/4/			*		stural Moistu Content (%)	37.9	37.5	41.3	44.3	44.0	44.0	39.7
Operator	Checked			, =	99 100	100	Natural Moisture Content (%)							
ŏ	ច័	Date		E) 2	% 86 86	88		+	+	+	H	+	++-	H
				2.	97.9	6 26	Sample Depth	4.95	5.50	5.95	6.50	6.95	7.50	36.7
					8 29 8	98	Samp							
		ing.			3900	3800	umper	8	0	0	60	7	7	90
	in Kenya	gineers,			* 6	00	Sample Number	D16	D19	020	D23	D24	D27	028
	acillies	ts & En	ERS	8.			-	L						
	forage F	Architec	RAMET	Linear Shrinkage	* 6	11		11	11	П	T	TT		TI
SH/1008	Vaccine Storage Facilities in Kenya	Yokogawa Architects & Engineers, Inc.	ERG PA	Plasticity	# gg	88	Aolsture nt (%)	31.5	41.2	35.7	37.7	40.0	40.3	39,4
Project No SH/1008	Project 1		ATTERBERG PARAMETERS		× 22	12	Natural Moisture Content (%)	31	41	É	3	4	94	(6)
Pro	E .	Clent	-	Prestic Liquid Limit Limit	37	83		+	+		1		1	
			Hoo	Naturel Prest Moisture Limit Content	38.5	46.6	Sample Depth	1.50	1.95	2.50	2.95	3.50	3.95	4,50
0 8	B/M		LOCATION	100				H	+	+	+	+	++	1
BRITECH LIMITED	Langata, Nairobi, Kenya TEL: 890881/890449		N	Sample No. Sample Depth	2-6m	6-10m	Semilo Mimbo	9	20	2	80	110	D12	510
CH	3, Neh 90861/	FAX: 890293	LOCATION	e No.	SA-1	SA-2	ojun	63	0	, D7	0	٥	۵	٥

PRELIMINARY SITE BOREHOLE LOG

LOCATION VACCINE STORAGE MERU

CARRIED OUT FOR: BUITECH

BOREHOLE NO: 1

DIAMETER: 15077M

DATES: 22/3/2010

SHEET No. 1

PLANT:

DAOK

DRAWN BY:

				1.00		SAMPLE		A CIN. C
	DESCRIPTIO	N	DEPTH	LEGEND	TYPE	No	DEPTH	REMARKS
- 14 (r.)	· ·		0.00		1	BL	1.00	Bog Cample
Q _t	DISHCLA	1				U2 D3	1.45	ulioa =
R±	DISH CL	+				0 B U	1.95 2.00 2.45	30/12-U 1=H 5 5 5 42 2 19/22 608 2 100-13 81-00 U
Q _T	DISH CL	* 7			1	D 7 8 9 U 10	2.95 3.00 3.45	U-24000 2.9.7 444433 43 43 4 609 2000 Ulico-2000 615005
\mathbb{Q}_{t}	Pirt CT	X-7	=		*	D12314	3.95	U-190e 2.P.1 514 516 3 19=1 Bag Lample Ulob=21 6157415
Q±	DISH CL	X4			1	B17	5.45	- 24, 2-10 24 214 214 19.2 24, 22 20 20 24, 20 20 20 20 20 20 20 20 20 20 20 20 20
\mathbb{Q}_{t}	JSH CL	A				0 20 0 20 0 19	5.50 5.95 6.00	U-2400 2.P.7 6/6/6/5/4 H Bag Mmple U100-19 Blows
Į.	DISH CL	X4				D 24	6.95 _7.00 _7.45	u-Shoe S.P.7 515141513 H= Bag Canaple Ulico-21615cus
2	DISH CL	44	2.00		4	D 27 D 28 B 29 U 30	7.50 7.95 8.00 8.45	u-Shoo S.P.7 7/6/5/6/4 ME Bag Sanaple Ulico = 24 Blows U-Shoe 1.P.7 5/6/6/5/3 ME
G	7 HAK#	LAY			1	031	19.45	1/100 - 20 Blows
			0.00		Ŧ	D 35 D 36 B 37	10.00	U-Shoe S.P.1 34/2/3/5 M= Bag Sample
l l † E	Disturbeç	Hulk Fa	ğ Edmpi	e Albie		× \		lard Penetration Test Test

DRILLING & PROSPECTING INTERNATIONAL LTD PRELIMINARY SITE BOREHOLE LOG

LOCATION VACCIME STORAGE MERU

CARRIED OUT FOR: BEITECH

BOREHOLE NO: 1

DIAMETER: 150 mm

DATES: 2232010

SHEET No. 2

PLANT:

090R

DRAWN BY:

THINKYI

			مر مل	2/2011	0		J. NDA.
	DESCRIPTION	DEDTU	LEGEND		SAMPLE		
ML		DEPTH	LEGEND	TYPE	No	DEPTH	REMARKS
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15	CLAY			1	040	10.95	2.P.7 33355 F
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Piston/U 100 undisturbed sample

Disturbed Bulk Bag Sample В

Disturbed Jar sample

Standard Penetration Test

Vane Test Х

Water sample

3.0 SITE LOCATION AND GEOLOGICAL OVERVIEW

2.1 Site Location

The Proposed Site for the construction of Vaccine Storage Facilities is within the Public Health Offices compound which is 1.5km from the Garissa General Hospital. The Ministry offices are inside Garissa Town while the General Hospital is on the outskirts, along the Garissa – Wajir Road, 1.5km from the town centre.

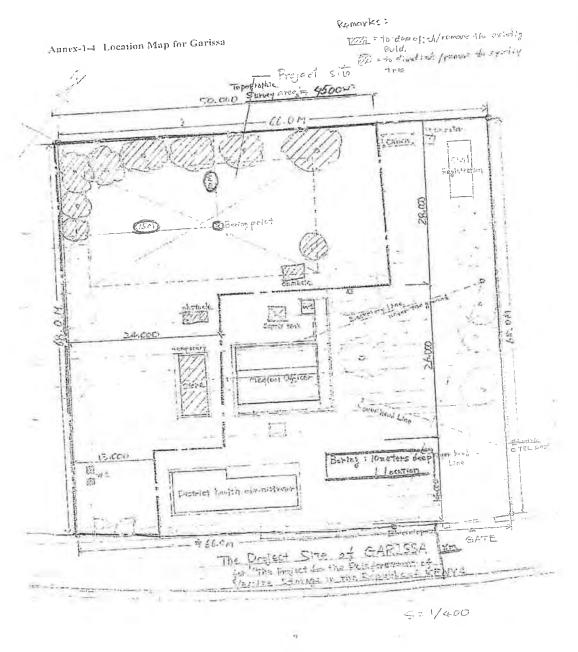


Figure 1: Proposed Site in Gar&sa

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Observations

The site is dominated by silty and sandy clays with cobbles at 7 and 8 metres below ground level. Garissa Town is supplied with electricity from the Kenya Power and Lighting Company and has a reliable water supply from the Municipal Council, pumped from the adjacent Tana River.

7.2 Soil Bearing Capacities

The following allowable bearing capacities can be used by the Structural Engineer:

ITEM	DEPTH	'N' Values from S.P.T	Allowable Soil Bearing Pressure(kN/m²)				
1	1.45	19	215				
2	2.45	16	180				
3	3.45	18	205				
4	4.45	20	213				
5	5.45	23	263				
6	6.45	19	215				
7	7.45	21	250				
8	8.45	20	213				
9	9.45	26	315				
10	10.45	35	450				

Table 2. SPT Tests in the Borehole

It is important for the foundations engineer to put in to consideration the ground water flow. Although due to the sandy nature of the soils it is unlikely to have a softening or swelling /heaving problem, considerable upthrust is expected.

APPENDIX	SHEET No 83365A		REMARKS		SANDY CLAY	SANDY CLAY	Natural Moisture Content (%)												
			CALIFORNIA BEARING RATIO	Swell	6.0	6'0	Sample Depth (m)												
		SNIA BE	CBR	9	_	nber													
			CALIFO	Soaking Period	100	4	Sample Number		Ш										
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SUMMARY OF SOIL	TEST RESULTS			=			Natural Moisture Content (%)												
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				19 25 mm mm			Semple Depth				П	Ш							
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Lab team	FKW	2/6/2010	19	600 1.17 µm mm		83	lofstur	0	0	w		П	H						
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				212 ptm	8	09	Oapth	,		10		H	H						
				150 mm	100	55	Sample Depth	8.45	9.45	10,45	10,								
			-	75 mm	14	45		-	+	+	+	+	-						
	副	Yokogawa Architecta & Engineers, Inc.		Plasticity	2697	2475	Numbe	D16	D18	D20									
	es in Ken		hitects & Engineers	hitects & Engineers	hitects & Engineers	illects & Engineers	itects & Engineers		Passing 425 µm	6	22	Sample Number	۵	0	Ö	11			
	Vaccine Storage Facilities in Kenya							METERS	Linear P Shrinkage	=	13								
908	line Stora	gawa Arc	G PARA		22 3	83	fure		П	H	П	П							
Project No. SH/1008		Yoko	ATTERBERG PARAMETERS	Praeti	H		Natural Moisture Content (%)	12.6	13.5	15.7	13.8	11.4	24.5	12.1					
Project	Project	Client	AT	Cauld	42	8	1												
	MITED 90-00509 bbi, Kenya 890449			Prastic e Umit	4 4	50	Sample Depth	1.45	2,45	3.45	4,45	5.45	6.45	2,45					
		FAX: 890293 E-mall: surtech@swiftkenys.com		Natural Prast Molsture Umit Content				1											
MITED			7		2-6m	7-10m	umber						2						
TECHL		FAX: 890293	LOCATION	Sample No. Sample Depth	GA-1	GA-2	redmbe Number	20	0.0	90	90	D10	D12	D14					



PRELIMINARY SITE BOREHOLE LOG

LOCATION VACCINE STORAGE - GARISSA

CARRIED OUT FOR: PRITECH

BOREHOLE NO: 1

DIAMETER: SOMM

DATES: 26 08 10

SHEET No. 1

PLANT: D90 E

DRAWN BY:

J. NDAVI

	DESCRIPTION	DEPTH	LEGEND		SAMPLE		REMARKS	
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DIMIL				1	100	1000	BAC SAMPLE	

X V Vane Test

E Disturbed Bulk Bag Sample

PRELIMINARY SITE BOREHOLE LOG

SHEET NO. J'CONTIA

LOCATION VACCINE STORAGE - GARISSA

PLANT: D 902

CARRIED OUT FOR: BRITECH

DIAMETER: | 50MM

BOREHOLE NO: 4

DATES: 26 03 10

DRAWN BY:

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U Piston/U 100 undisturbed sample

B Disturbed Bulk Bag Sample

S Standard Penetration Test

X V Vane Test

資料6 その他の資料・情報

ケニア国ワクチン保管施設強化計画協力準備調査

調査名

6 - 1 収集資料リスト

2008/9 年 2008/9 年 2007年 2007年 2006年 2007年 2008年 1987 年 2007年 以降版 発行年 卅 卅 卅 2009 2007 2007 Central Bureau of Statistics, Ministry of Planning and National Development 黙 獭 Ministry of Public Works Ministry of Public Works DVI, Ministry of Health 介 Ministry of Health Ministry of Health 絥 不明 不明 不明 不明 不思 不明 オリジナル オリジナル オリジナル オリジナル オリジナル オレジナブ ם ת ו ם ת ו ם ת 1 ם ת ו ם ת ו ם ת ו ם ת ו ם ת ו 地図·写真集 図書・バデオ 形態 図書 図書 图書 図書 図書 图書 國 國 國 図書 図書 図 Revised Population Projections for Kenya 2000-2010 The National Health Care Waste Management Plan Kenya Demographic and Health Survey 2008-09 The Occupational Safety and Health Act, 2007 Code No.1 \sim 68, 94 \sim 259 Building Code Catalogue of Government Publications Current Construction Costs Handbook 称 The Work Injury Benefits Act, 2007 Performance Monitoring Handbook The Labour Institutions Act, 2007 The Labour Relations Act, 2007 Code No.69 ~ 93 Fire Code The Employment Act, 2007 加 Preliminary Report **Building Code** 2008-2010 細叩 10 1 12 4 9 _ ∞ 6