

RIDER HUNT TEROTECH 31.5.2006 Date started:

Borehole No.

Project No:

Sheet

BH6

CH1613/1

3 of 4

31.5.2006 Principal: Date completed:

Во	reho	le L	oca	ation	REF	ER TO	FIC	GUR	Ξ1			С	hecked	by:	
1				untino	g:P120 TF	RUCK				•	533262.034 slope:			R.L	. Surface: 1.75
_	e diar rillin			mati	ion			1			5744033.133 bearin substance	g:		datı	um: AHD
method	1 2 penetration			5	notes samples, ests, etc	well details	RL	depth metres	aphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	characteristics, r components.	moisture condition	consistency/ density index	structure and additional observations
MB MB					SPT 23,R,- N*=R SPT 21,R,- N*=R SPT 18,32,R,- N*=R SPT 6,10,13 N*=23 SPT 6,9,11 N*=20		15	17 18 19 20 21 22 23 24			SAND: fine to medium grained, b	rown (continued)	W	MD	SPT 30 blows for 125mm penetration. SPT 30 blows for 125mm penetration. SPT 32 blows for 150mm penetration. SPT 34 blows for 150mm penetration.
AS AD RR W CT DT B V T	X t show	n by	aug rolle was cabl diati blar V bi TC I	er drill er/trico hbore le tool ube uk bit t bit ex	one	→ on → wa	ation 4 no i rang refu	N ni resistance ging to usal water leve shown	el	notes, s U ₅₀ D N N* NC P BS R E PIID WS PZ ALT	asamples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	classification syn soil description based on unified c system moisture D dry M moist W wet Wp plastic limit W_L liquid limit			consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



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Principal: Date completed: 31.5.2006

				n: REF) FI	GURI		time. I	222222 024 plane: 000	Checked	-	0 (
	modei diame			ing:P120 T	NOON					33262.034 slope: -90° 3744033.133 bearing:			Surface: 1.75
				ation						5744033.133 bearing: substance		datu	m: AHD
method	2 penetration	upport		notes samples, tests, etc	well details	RL	depth metres	aphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	structure and additional observations
WB		M		SPT 5,8,9			- - - 2 <u>5</u>			SAND: fine to medium grained, brown (continued)	W	MD	
				N*=17	0.0	24	2 <u>6</u>	<u> </u>		End BH6 at 25.45m due to limit of required investigation. Borehole terminated at 25.45m			
						25	- - 2 <u>7</u> -						
						26	- - 2 <u>8</u> -						
						27	- - 2 <u>9</u>						
						28	3 <u>0</u>						
						29	- 3 <u>1</u> -						
	nod				suppo		32			amples, tests classification		d	consistency/density index
AS AD RR V CT OT B		a ro d d b V T	uger o bller/tr rashbo able to iatube lank b bit C bit	ore		no rar ref	N ni resistance nging to usal water leveshown	el	U ₅₀ D N N* Nc P Bs R E PID	undisturbed sample 50mm diameter disturbed sample 50mm diameter baradard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement soil descriptio based on unifie system moisture moisture D dry M moist W wet Wy plastic lir	d classificati	on	VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose
ΓBX bit s e.g.	shown	by su	ubex uffix .DT		► wa	ater inf			WS PZ ALT	water sample	t		MD medium dense D dense VD very dense



Client: RIDER HUNT TEROTECH Date started: 29.5.2006

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Principal: Date completed: **30.5.2006**

					n: REF) FI	GURI					Checked	l by:		
				untir	ng:P120 TI	RUCK				•	533049.973 slope:	-90°		R.L	. Surface: 1.56	
_	e diam				4ian						6744153.418 bearing	j :		dat	um: AHD	
ar	illing	_	TOI	rma	tion				ma	1	substance				T	
method	5 penetration		support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and minor	characteristics,	moisture condition	consistency/ density index	structure and additional observations	
ADV		I	N							SP	SAND: fine to coarse grained, da	rk brown	М	L/MD?	ALLUVIAL SOIL	_
WB AD			. · · · · · · · · · · · · · · · · · · ·		D D SPT 3,4,7 N*=11 D D SPT 8,14,16 N*=30 D SPT 9,14,25 N*=39 SPT 25,R,- N*=R			1			Colour change to pale grey/pale b	rown at 0.8m.	W	MD/D D/VD	SPT 24 blows fro 60mm penetration.	-
AS AD RR W CT DT B V T	thod (aug rolle was cab diat blan V b TC	ger dr er/tric shbor ble too tube nk bit it bit pex	re ol	- on	ration 4 no ran	resistance aging to usal water leve shown	•	notes, s U ₅₀ D N N* Nc P Bs R E PID WS	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample	classification sy soil description based on unified system moisture D dry M moist W wet Wp plastic limi W _L liquid limit	classificati		consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense	



CH1613/1 Project No: RIDER HUNT TEROTECH 29.5.2006 Date started:

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30.5.2006 Principal: Date completed:

			on: <i>REF</i>		FIG	URE					cked	by:	
			ting:P120 T	RUCK				•	533049.973 slope:	-90°			. Surface: 1.56
hole dia drillin			ation						3744153.418 bearing substance	<u>:</u>		datı	um: AHD
method 1	Delle la	support	notes samples, tests, etc	well details	RL r	depth metres	graphic log	classification symbol	material soil type: plasticity or particle of colour, secondary and minor	characteristics, components.	moisture condition	consistency/ density index	structure and additional observations
WB	N	М	SPT 16,R,- N*=R		7	9		SP	SAND: fine to coarse grained, dar (continued) Thin layer of fine grained gravel at 8.5m.		W	VD	SPT 30 blows for 130mm penetration.
			SPT R,-,- N*=R		8	10							SPT 30 blows for 110mm penetration.
			SPT R,-,- N*=R		10	12							SPT 30 blows for 115mm penetration.
			SPT R,-,- N*=R		11	1 <u>3</u>							SPT 30 blows for 120mm penetration.
			SPT 30,R,- N*=R		13	1 <u>5</u>							SPT 30 blows for 150mm penetration
method AS AD RR W CT DT B V T TBX *bit show	vn by :	auger roller/t washb cable diatub blank V bit TC bit Tubex	ore tool e bit	support C casin penetra 1 2 3 water 1 10/ water water water water	ng 4 no re rangi refus	ater level nown ow	ı	notes, s U ₅₀ D N N* Nc P Bs R E PID WS PZ	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	classification symbo soil description based on unified class system moisture D dry M moist W wet Wp plastic limit W_L liquid limit			consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



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Principal: Date completed: **30.5.2006**

rill m	odel	& m	ounti	ng:P120 TI	RUCK			Eas	sting: {	533049.973 slope:	-90°	R	.L. Surface: 1.56
ole d	iame	ter:						Noi	rthing: 6	6744153.418 bearing	g:		atum: AHD
			rma	ition						substance	-		
ը	ດ penetration	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	characteristics, r components.	condition consistency/	structure and additional observations
OM OM		M		SPT 17,R,- N*=R SPT 17,28,R N*=R SPT 12,26,R N*=R SPT 13,30,R N*=R		151617181920	1 <u>7</u> 18 19 20 21 22 23		SP	SAND: fine to coarse grained, da (continued) Colour change to brown, no longe approximately 18.8m.		N VD	
etho	od			SPT 11,21,29 N*=50	o o o o o	22 t	24		notes, s	amples, tests	classification symbols	s and	SPT 29 blows for 150mm penetration.
S D R T T	own b	ro wa ca dia bla V TO	iger d ller/tri ashbo ible to atube ank b bit bit ibex ffix	ore pol	penetra 1 2 3 water 10/ on o	ation 4 no ran refu	vater leve shown low		U ₅₀ D N N* Nc P Bs R E PID WS PZ ALT	undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	soil description based on unified classif system moisture D dry M moist W wet Wp plastic limit W_L liquid limit		VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



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Principal: Date completed: **30.5.2006**

ii modei & mo	unting:P120 T	RUCK			Eas	sting: 5	33049.973 slope: -90°		R.L. S	Surface: 1.56
le diameter:					Nor	thing: 6	5744153.418 bearing:		datum	n: AHD
rilling info	mation				ma	terial	substance			
ν penetration ω support	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/ density index	structure and additional observation
	SPT 10,17,19 N*=36 SPT 3,5,11 N*=16		G23			SP	SAND: fine to coarse grained, dark brown (continued) Colour change to pale brown at 24.5m. SAND: fine to medium grained, grey, trace of fines	W	MD	
	SPT 7,12,13 N*=25		26	_ 					D	
	SPT 11,23,26 N*=49		-28	- 3 <u>0</u> - - -						
O auç R roll wa F cat			ation 4 no rar ref	resistance)	notes, s U ₅₀ D N N* NC P Bs R E	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement Classification s soil description based on unified system System System SPT - days for moisture production of the sample of the sample production of the sample	classificati		consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose



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Borehole No.

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30.5.2006 Principal: Date completed:

Boreho	ole L	oca	tion:	REF	ER TO	FI	GURE	≣ 1			С	hecked	by:	
drill mod	del &	mou	ınting	:P120 TF	RUCK			Eas	ting: 5	533049.973 slope:	-90°		R.L	Surface: 1.56
hole diar								Nor	thing: 6	6744153.418 bearin	g:		dat	um: AHD
drilling	ng in	forı	mati	on				ma	terial	substance				
method 1	- 13	noddns	s	notes amples, ests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	characteristics, r components.	moisture condition	consistency/ density index	structure and additional observations
WB		м	1	SPT 16,R,- N*=R SPT 8,10,6 N*=16 SPT 1,16,32 N*=48 SPT 7,5,9 N*=14 SPT 0,1,5 N*=6		313233343536	3 <u>3</u> 3 <u>4</u> 3 <u>5</u> 3 <u>6</u> 3 <u>7</u> 3 <u>8</u> 3 <u>9</u> 3 <u>9</u>		SP	SAND: fine to medium grained, g (continued) SAND: fine to medium grained, g medium plasticity fines	d is fine to medium	W	MD D	SPT 30 blows for 130mm penetration. SPT 32 blows for 150mm penetration.
method AS AD RR W CCT DT B V T		auge rolle wast	k bit : oit	ng*		ng ation 4 no ran ran 1/98 v	N ni resistance ging to usal	l el	notes, s U ₅₀ D N N* Nc P Bs R E PID WS	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample	classification syn soil description based on unified c system moisture D dry M moist W wet Wp plastic limit W, liquid limit			consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense



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Principal: Date completed: **30.5.2006**

					n: REF ng:P120 T		FI	GURI		etina: 4	533049.973 slope:		hecked	_	. Surface: 1.56
hole				Juliu	g 120 1	rtoort					6744153.418 bearing				
				rma	tion						substance	g.		datı	um: AHD
nethod	12 penetration		support	water	notes samples, tests, etc	well details	RL	depth metres	aphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	characteristics, r components.	moisture condition	consistency/ density index	structure and additional observations
WB			М				939	- - - 4 <u>1</u>		SC	Sandy CLAY/Clayey SAND: sand grained, clay is medium plasticity, grained, clay is medium plasticity, grained, clay is medium plasticity, grained, some CLAY: high plasticity, gray, some	, grey (continued)	W	L/F	
	200000000000000000000000000000000000000				SPT 4,6,10 N*=16		-40	- - 4 <u>2</u> -		GII	Shell fragments observed.	s line granieu sanu	IVI	31	
						0 0 0 0 0 0 0 0 0 0 0		43							
000000000000000000000000000000000000000					SPT 5,9,9 N*=18	0 0 0 0 0 0	43	4 <u>4</u> - - - - 4 <u>5</u>			End PH7 at 44 05m due to limit of	Fraguired		VSt	
							44	- - 4 <u>6</u> -			End BH7 at 44.95m due to limit of investigation. Borehole terminated at 44.95m	i requirea			
							46	4 <u>7</u> - - - 48							
meth AS AD RR W CT DT B V T TBX *bit s e.g.		n by	rol wa cal dia bla V I Tu	ger d ler/tri ishbo ble to atube ank bi bit bit bex fix	ol		ation 4 no ran refu /1/98 v date s	N n resistance ging to usal vater lev	e	notes, s U ₅₀ D N N* Nc P Bs R E PID WS PZ ALT	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	classification sym soil description based on unified cl system moisture D dry M moist W wet Wp plastic limit W _L liquid limit			consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



Client: RIDER HUNT TEROTECH Date started: 1.6.2006

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Principal: Date completed: 1.6.2006

Bor	ehole	e Lo	catio	on: REF	ER TO	FIGUR	E 1				Checked		
drill	mode	l & m	ount	ing:P120 T	RUCK		Eas	sting:	533143.425 slope:	-90°		R.L	. Surface: 1.61
hole	diam	eter:					Nor	rthing: 6	6744273.849 bearin	g:		dati	um: AHD
dri	illing	info	orma	ation			ma	terial	substance				
method	5 penetration	support	water	notes samples, tests, etc	well details F	depth RL metres	graphic log	classification symbol	material soil type: plasticity or particle colour, secondary and mino	characteristics, r components.	moisture condition	consistency/ density index	structure and additional observations
ADV		N				-		SP	SAND: fine to medium grained, b	rown	М	MD?	ALLUVIAL SOIL
				D D		- 1 - <u>1</u> -		SC	Clayey SAND/Sandy CLAY: fine grained, brown, clay is medium pl SAND: fine to medium grained, g	asticity	_	D	
				SPT 7,9,9 N*=18		- 0 - 2			Grand, g	,	W		
				D SPT 1,3,6 N*=9		-1 - 3 3 - -2 -						MD	
2		M		D SPT 5,9,10 N*=19		-3 - 5			Colour change to dark brown at 4	.8m.		D	
				SPT 22,R,- N*=R		4 6 55							SPT 30 blows fro 40mm penetration.
				SPT 18,30,R N*=R		7 - -6 -8							SPT 30 blows for 150mm penetration.
AS AD RR W CT OT S / FBX	hod	ar w ca di bl V Tr Tr by su	uger of aller/triashboth able to atube ank both bit C bit ubex	ool	support C casing penetrat 1 2 3 4 water 10/1/ on di	g N r ion - no resistance ranging to refusal /98 water levate shown r inflow	e ⁄el	Inotes, s U ₅₀ D N N* Nc P Bs R E PID WS PZ ALT	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	classification sy soil description based on unified system moisture D dry M moist W wet Wp plastic limit W _L liquid limit	classificatio		consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



CH1613/1 Project No: RIDER HUNT TEROTECH 1.6.2006 Date started:

Borehole No.

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1.6.2006 Principal: Date completed:

			on: REF		FIGUI					ed by:	
			ing:P120 T	RUCK			J	533143.425 slope:	-90°		L. Surface: 1.61
nole diar drilling			ation					5744273.849 bearing substance):	da	tum: AHD
method 1 2 Denetration	to	water	notes samples, tests, etc	well details	dep RL meti	aphic log	classification symbol	material soil type: plasticity or particle colour, secondary and minor	characteristics, components.	condition consistency/ density index	structure and additional observations
WB	N	1	SPT R,-,- N*=R	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 <u>{</u>	9	SP	SAND: fine to medium grained, gr	rey (continued) V	V VD	SPT 25 blows for 80mm penetration.
			SPT 18,26,R N*=R	0 0	-8 1 <u>1</u> -9			Thin band of fine grained gravel at 10.5m.	approximately		SPT 26 blows for 150mm penetration.
			SPT R,-,- N*=R		10 1 <u>:</u>						SPT 30 blows for 110mm penetration.
			SPT R,-,- N*=R		11 1; 12 1;						SPT 30 blows for 130mm penetraation.
			SPT R,-,- N*=R		13 1 <u>!</u> 14	5					SPT 30 blows for 90mm penetration.
method AS AD RR W CT DT B B V T TBX *bit show	n by s	auger roller/ti washb cable t diatube blank t V bit TC bit Tubex	ore ool	on d	g N	nil	notes, s U ₅₀ D N N* Nc P Bs R E PID WS PZ ALT	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	classification symbols soil description based on unified classifi system moisture D dry M moist W wet Wp plastic limit W_L liquid limit		consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



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1.6.2006 Principal: Date completed:

				n: REF) FI	GURI					hecked	_	
				ing:P120 T	RUCK				•	533143.425 slope:				. Surface: 1.61
	diame			ation						5744273.849 bearingsubstance	ng:		dat	um: AHD
method	2 penetration	upport		notes samples, tests, etc	well details	RL	depth metres	aphic log	classification symbol	material soil type: plasticity or particle	e characteristics, or components.	moisture condition	consistency/ density index	structure and additional observations
WB		М		SPT 23,R,- N*=R		15	- - - 1 <u>7</u>		SP	SAND: fine to medium grained,	grey (continued)	W	VD	SPT 30 blows for 120mm penetration.
				SPT 15,30,R N*=R		16	- - 1 <u>8</u> - -							SPT 30 blows for 1501mm penetration.
				SPT 12,25,R N*=R		18	1 <u>9</u>							SPT 26 blows for 105mm penetration.
				SPT 14,24,R N*=R		19	- - 2 <u>1</u> -							SPT 26 blows for 130mm penetration.
				SPT 15,R,- N*=R		20	- 2 <u>2</u> - - - 2 <u>3</u>							SPT 30 blows for 140mm penetration.
				SPT R,-,- N*=R	0 0 0	22	- - - 24				1			SPT 30 blows for 115mm penetration.
meth AS AD RR W CT DT B V T TBX *bit s e.g.		a w c d b V T T oysi	uger of bler/tr /ashbot able to iatube lank bit C bit ubex	ore pool	penetr 1 2 3 water 1 10 on wa wa	ation 4 no ran 71/98 v date s	water lev shown low	•	notes, s U ₅₀ D N N* Nc P Bs R E PID WS PZ ALT	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	classification sym soil description based on unified cl system moisture D dry M moist W wet Wp plastic limit W_ liquid limit			consistency/density index VS very soft S soft F firm St stiff VSt very stiff H hard Fb friable VL very loose L loose MD medium dense D dense VD very dense



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1.6.2006 Principal: Date completed:

drill	mo	odel	& n	noun	ting:P120 T	RUCK			Eas	ting: 5	33143.425 slope:	-90°		R.L. S	urface:	1.61
nole	e di	iame	eter:						Nor	thina: 6	3744273.849 bearing:			datum		AHD
					ation				_		substance			datairi		1110
method	1	ດ penetration ຣ	support	water	notes samples, tests, etc	well details	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle c colour, secondary and minor	haracteristics, components.	condition	consistency/ density index		ucture and al observations
WB		23	M	_	SPT 10,21,27 N*=48	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25	25 - 26 - 27 - 28 - 29 - 30 - 30		SP	SAND: fine to medium grained,	ey (continued)	W	D/VD		
							29	- 3 <u>1</u> - -								
AS AD RR W CT DT B V T TBX	×	own I	a w c d b V T T coy su	uger oller/t vashb able iatub lank bit C bit ubex	tool e bit	l ▼ on	ration 4 no rar ref	resistance nging to usal water lev shown	il •	notes, s U ₅₀ D N N*Nc P Bs R E PID WS PZ ALT	amples, tests undisturbed sample 50mm diameter disturbed sample standard penetration test (SPT) SPT - sample recovered SPT with solid cone pressure meter bulk sample refusal environmental sample PID measurement water sample piezometer air lift test	classification symbol soil description based on unified classi system moisture D dry M moist W wet Wp plastic limit W _L liquid limit			consistency VS S F St VSt H Fb VL L MD D VD	very soft soft firm stiff very stiff hard friable very loose loose medium dense dense very dense