

borehole no:
BH18
 sheet 1 of 2

engineering log - borehole

job no: 121522

file: 121518

project: Woolnorth Stage 3 Preliminary Geotech Investigations
 borehole location: GPS 308515E, 5481553N
 hole commenced: 15 March 05
 hole completed: 16 March 05
 supervised by: E BIRCH
 log checked by: T BOWLING

drill model and mounting: CMV 600 Track
 hole diameter: 150 mm
 slope: VERT deg.
 bearing: deg.
 R.L. surface: ~ 48 m
 datum: NOT SURVEYED
 operator: G BAKER/R STACPOLE

method	penetration	support	water	notes samples, tests, etc	R.L. depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	hand penetro- meter kPa	structure and additional observations
1 2 3											100 200 300 400	
								TOPSOIL, sand, fine grained, black	M	L		
					1.0	LoS		SAND; fine grained, light brown	M-W	L		
				N ^s =14 (4,5,9)				SAND, fine grained, black cemented	M-W	MD		laminated hard, firm and organic
					2.0			; slightly cemented	M	MD-H		
				N ^s >60 (13,7,7)								second run 20blows for 85mm only
				20/3/05								
				N ^s =22 (6,8,14)	3.0		SM		M	MD		
					4.0							
				N ^s =5 (1,2,3)			SM	SAND, slightly plastic, silty, brown; contains medium grained shells	W	L		
					5.0							
				N ^s =11 (4,4,7)			SM	SAND, fine grained, slightly clayey, brown, no shell grains present.	M	MD-H		
					6.0							
				N ^s =32 (11,16,16)								
					7.0		SM					
				N ^s =8 (4,5,3)				SAND, fine grained, brown- black				no sample recovered
					8.0							

key method AS auger screwing* AD auger drilling* R roller/tricone W washbore CT cable tool * bit shown by suffix: B - blank bit V - "V" bit T - TC bit e.g. ADT	support C casing M mud penetration no resistance ranging to refusal water 10 Oct, 73 water level on date shown water inflow water outflow	notes - samples and tests U50 - undisturbed sample 50 mm diameter D - disturbed sample N - standard penetration test: figure = result N ^s - SPT + sample Nc - cone penetrometer	classification symbols and soil description based on unified classification system moisture D - dry M - moist W - wet < PL = PL > PL	consistency/relative density VS - very soft S - soft F - firm St - stiff VSt - very stiff H - hard Fb - friable VL - very loose L - loose MD - moderately dense D - dense VD - very dense
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hole completed: **16 MARCH 05**

supervised by: **E BIRCH**

log checked by: **T BOWLING**

borehole location: **GPS 308515E, 5481553N**

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slope: **VERT** deg.

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123											100 200 300 400	
				N [*] = 12 (5,3,9)	9.00		SM	SAND, fine grained, brown slightly clayey, low PI	W	L		
				N [*] = 8 (3,4,4)	10.00							
				N [*] > 60 20, -, -	11.00			SILTSTONE, fine grained, completely weathered, black, carbonated some coarse grained fragments some plasticity	M	VD		bouncing
				N [*] > 60	12.00			END OF BOREHOLE.				30 blows for 8mm only.

150mm HOLLOW FLIGHT AUGER

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