

borehole no:
BH24
 sheet 1 of 2

engineering log - borehole

job no: 121522

file: 121518

project: **WOOLNORTH STAGE 3. PRELIMINARY GEOTECH INVESTIGATIONS**

hole commenced: 16 MARCH 05

hole completed: 17 MARCH 05

supervised by: E BIRCH

log checked by: T BOWLING

borehole location: GPS 308207E, 5480667N

drill model and mounting: CMV 600 TRACK.

slope: VERT deg.

R.L. surface: ~ 40 m





hole diameter: 150 Auger mm
 + HQTT 2.6

bearing: deg.

datum: NOT SURVEYED

operator: GOAKER / R STACPOOLE

method	penetration	support	water	notes samples, tests, etc	RL depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency, rel. density	hand penetrometer kPa	structure and additional observations
123								TOPSOIL, sand, fine grained, black	M	L		
				D SAMPLE			SM	SAND; fine grained, light brown with some cobble & stones	M	L		Some gravel @ 0.8m
				N ^x > 60	1.0							20 blows for 100mm only boulder @ 1.2m
				N ^x = 33 (5, 16, 13)	2.0		SM	SAND, fine grained, brown cemented	M	MD		
				N ^x = 49 (18, 28, 21)	3.0							
				N ^x = 20 (3, 6, 14)	4.0			(some medium grained sand)				No sample taken
				18/3/05 20/3/05								
				N ^x = 35 (13, 16, 19)	5.0		SW	SAND; fine to medium grained with some sub angular quartz gravel, light brown to brown.	M-W	MD		
				N ^x = 21 (5, 8, 13)	6.0					MD		No sample taken
				N ^x = 16 (8, 8, 8)	7.0							
					8.0					MD		No sample taken

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 [*] - 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
--	--	--	--	--

borehole no:
BH 24
 sheet **2** of **2**

engineering log – borehole

job no: **121522**

file: **121518**

project: **WOOLNORTH STAGE 3: PRELIMINARY GEOTECH INVESTIGATIONS**

hole commenced: **16 MARCH 05**

hole completed: **17 MARCH 05**

supervised by: **E BIRCH**

log checked by: **T BOWLING**

borehole location: **GPS: 308207E, 5480667N**

drill model and mounting: **CMV 600 TRACK**

slope: **VERT.** deg.
 bearing: deg.

R.L. surface: **~40** m

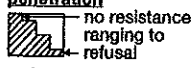
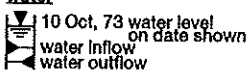
datum: **NOT SURVEYED.**

operator: **G BAKER / R STACPOOLE**

hole diameter: mm

method	penetration	support	water	notes samples, tests, etc	RL	depth metres	graphic log	classification symbol	material soil type: plasticity or particle characteristics, colour, secondary and minor components.	moisture condition	consistency/rel. density	hand penetrometer kPa 100 200 300 400	structure and additional observations
123													
				N* = 8 (4,5,3)		9.0			SAND: medium grained, brown low plasticity	M	L		
						10.0							9.7m black washings
				N* = 22 (4,7,15)		11.0			SILTSTONE, completely weathered fine grained, low plasticity fines black (carbon colour)	M	MD		
						12.0			SILTSTONE, completely weathered fine grained low plasticity fines, black		H		
				N* > 60					End of BOREHOLE				31 blows for 12mm

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

water


notes - samples and tests
 U50 - undisturbed sample 50 mm diameter
 D - disturbed sample
 N - standard penetration test: figure = result
 N* - SPT + sample
 Nc - cone penetrometer

classification symbol 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