

borehole no:
BH 8
sheet 1 of 3

engineering log - borehole

job no: 121522

file: 121518

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

hole commenced: 19/3/05
hole completed: 19/3/05
supervised by: B TAYLOR
log checked by: T BOWLING

borehole location: **GPS: 307 820E, 548 3128N**

drill model and mounting: **CMV 600 TRACK.**
hole diameter: 150 mm

slope: VERT deg.
bearing: deg.

R.L. surface: ~50 m
datum: NOT SURVEYED

operator: **G BAKER
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 100 200 300 400	structure and additional observations
123									TOPSOIL; sand, minor organik	D	L		
								SM	AEOLIAN SAND; grey	m	L		
				N [*] =41 (22,22,18)		1.0		SM	; compacted (hard pan) Fe rich ; dark red brown	m	D		moderately compacted @ 0.8m
				21/3/05 N [*] =25 (9,13,12)		2.0		SM	; dark grey brown	m	MD		
				N [*] =16 (4,4,12)		3.0							
				N [*] =28 (6,11,17)		4.0							
				N [*] =19 (5,9,10)		5.0				W	MD		
				N [*] =16 (6,7,9)		7.0							
						8.0							

150MM HOLLOW FLIGHT AUGER

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
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borehole no:
BH 8
 sheet 2 of 3

engineering log – borehole

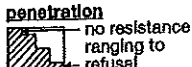
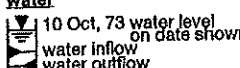
job no: 121522

file: 121518

project: **WOOLNORTH STAGE 3: PRELIMINARY GEOTECH INVESTIGATIONS.**
 borehole location: **GPS: 307820E; 5483128 N**
 hole commenced: **18/3/05**
 hole completed: **19/3/05**
 supervised by: **B. TAYLOR**
 log checked by: **T. BOWLING**

drill model and mounting: **CMV 600 TRACK** slope: **VERT** deg.
 hole diameter: **150** mm bearing: deg.
 R.L. surface: **~50** m
 datum: **NOT SURVEYED** operator: **G. BAKER / R. STACPOOLE**

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 100 200 300 400	structure and additional observations
								AEOLIAN SAND	W/M	L		
				N* = 16 (3,5,11)	9.0			MUDSTONE; clay rich, grey green.	HW			
				N* 760 (22,30,-)	10			MUDSTONE SILTSTONE grey green.	MW			strong cleavage fissile very weak along cleavage/bedding
								CONTINUED ON CORED BOREHOLE SHEET.				

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  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 L - loose VL - very loose MD - moderately dense D - dense VD - very dense
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borehole no:
BH8
 sheet **3** of **3**

engineering log — cored borehole

File No. 121518

project: **WOOLNORTH STAGE 3 PRELIMINARY GEOTECH INVESTIGATIONS.**
 borehole location: **GPS: 307 820 E; 548 3128 N**
 hole commenced: **18/3/05**
 hole completed: **19/3/05**
 supervised by: **B. TAYLOR**
 log checked by: **T. BOWLING.**

drill model and mounting: **CMV 600 TRACK** slope: **VERT** deg.
 barrel type and length: **HQT 2.6** fluid bearing: deg.
 R. L. surface: **~50** m
 datum: **NOT SURVEYED** Driller: **G. BAKER / R. STACPOOLE**

drilling information			rock substance			rock mass defects		
method	case-lift	water	depth m	substance description rock type: grain characteristics, colour, structure, minor components.	weathering	strength Is (50)	defect spacing mm	defect description thickness, type, inclination, planarity, roughness, coating. particular general
			9.0					
			10.0					
				CONTINUED FROM BORE HOLE SILEY				
			11.0	LAMINATED SILTSTONE MUDSTONE, lesser fine grained sandstone grey green.	SW			10.6 → 11.1 RQD = 56% intense cleavage rock weakness mainly along cleavage. Faults along cleavage same breakage along bedding as well
			12.0	END OF BORE HOLE 12m.				11.1 → 12.0 RQD = 73%

key method AS auger screwing AD auger drilling R roller/tricone W washbore NMLC NMLC core drilling	case-lift casing used H barrel withdrawn water 10 Oct, 73 water level date shown water inflow partial drilling water loss complete drilling water loss	graphic log/core loss core recovered (hatching indicates material) no core recovered	weathering Fr — fresh SW — slightly weathered MW — moderately weathered HW — highly weathered EW — extremely weathered	strength (indirect tensile strength) EL — extremely low VL — very low L — low M — medium H — high VH — very high EH — extremely high
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