REF No ~~1458~~ 22156

MRF-42 June 98

borehole no: BH25

sheet 1 of 3.

engineering log – borehole

job no: 121522 file: 121518

project: WOOLNORTH STAGE 3B PRELIMINARY GEOTECH INVESTIGATIONS.

hole commenced: 17/3/05
hole completed: 18/3/05
supervised by: B. TAYLOR
log checked by: T. BOWLING.

borehole location: GPS: 306999 E 5481043N

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

slope: VERT deg.
bearing: deg.

R.L. surface: ~10 m
datum:

operator: GBAKER R. STIDSPOLE

method	penetration 1 2 3	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 penetrometer kPa 100 200 300 400	structure and additional observations
HAND AUGER									TOPSOIL, aeolian sand, fine grained dark brown, root matter	M	L		
								SM	AEOLIAN SAND; fine grained dark brown, some root matter	M	VL		
		H		N*=4 (1,2,2)		1.0							
			▼	20/3/05					fine grained dark brown	M-W	VL		
		H		N*=3 (3,1,2)		2.0				W	VL		
		H		N*>60 (13,28,-)		3.0			CONTINUED ONTO CORED BOREHOLE SHEET				bouncing

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

A-1316

M & R F8

borehole no: BH 25
sheet 2 of 3

engineering log — cored borehole

File No. 121518

project: WOODNORTH STAGE 3B RESIDENTIAL GEOTECH INVESTIGATIONS
borehole location: GPS: 306999E 5481043N

hole commenced: 17/3/05
hole completed: 18/3/05
supervised by: B TAYLOR
log checked by: T BOWLING

drill model and mounting: CMV 600 TRACK slope: VERT deg.
barrel type and length: HQTT 2.6 fluid bearing: deg.

R. L. surface: ~10 m
datum: NOT SURVEYED Driller G BAKER R SINCLOCK

drilling information				rock substance					rock mass defects	
method	case-lift	water	R.L. depth metres	graphic log core loss	substance description rock type: grain characteristics, colour, structure, minor components.	weathering	strength Is (50) EL VL L M H VH EH	defect spacing mm 30 60 200 600 2000 6000 >6000	defect description thickness, type, inclination, planarity, roughness, coating. particular	general
			1.0							
			2.0							
					(CONTINUED FROM BOREHOLE SHEET					
			3.0		MUDSTONE, minor Sandstone very clayrich, some relict cleavage	HW EW HW				
			4.0							
			5.0		Sharp transition into MW/SW MUDSTONE, variably fissile pale green grey weakly siliceous	MW			5.3 - 6.3 RQD = 33%	
			6.0						6.3 → 6.9 RQD = 44%	
			7.0						6.9 → 7.6 RQD = 33%	
			8.0							

HQTT RIG BARREL

key

method

AS	auger screwing
AD	auger drilling
R	roller/tricone
W	washbore
NMLC	NMLC core drilling

case-lift
- casing used
- 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

M & R F8

borehole no: BH25

sheet 3 of 3.

engineering log — cored borehole

File No.

project: WOOLNORTH STAGE 3 PRELIMINARY GEOTECH INVESTIGATIONS

borehole location: GPS: 306999E, 5481043N.

hole commenced: 17/8/05

hole completed: 18/3/05

supervised by: B. TAYLOR

log checked by: T. BOULING.

drill model and mounting: CMV 600 TRACK. slope: VERT deg.

barrel type and length: HQTT 2.6 fluid bearing: deg.

R. L. surface: ~10 m

datum: NOT SURVEYED Driller B. TAYLOR R. STACPOOLE

drilling information				rock substance						rock mass defects	
method	case-lift	water	R.L. / depth metres	graphic log / core loss	substance description: rock type, grain characteristics, colour, structure, minor components.	weathering	strength Is(50) EL VL L M H VH EH	defect spacing mm 60 200 600 2000 6000	defect description: thickness, type, inclination, planarity, roughness, coating. particular	general
HQTT 2.6 BARREL					MUDSTONE; pale grey green sericite clay along cleavage				variably mod → strongly broken fissile broken along cleavage plane	
			9.0		MUDSTONE, minor sandstone more competant pale grey green.				9.15 – 10.3 RQD = 77%.	
									cleavage @ 45°/60° to core	
					SANDSTONE; fine grained interbedded with minor siltstone + mudstone moderately strongly siliceous (quartzite) minor carbonate pale grey				mostly massive.	
			10.0							
			11.00		MUDSTONE, strongly cleavaged, pale grey green				fissile very weak along cleavage planes.	
									plated → fractured	
			12.0		END OF BOREHOLE @ 12M.					

key

method

AS	auger screwing
AD	auger drilling
R	roller/tricone
W	washbore
NMLC	NMLC core drilling

case-lift

- casing used
- 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