

borehole no:
BH18
 sheet 1 of 3

engineering log - borehole

job no:

file: 121518

project: **MUSSELROE WIND FARM: PRELIMINARY GEOTECH INVESTIGATIONS**
 borehole location: **GPS: 581834(E) 5487897(N)**
 hole commenced: **30/3/05**
 hole completed: **31/3/05**
 supervised by: **E BIRCH**
 log checked by:

drill model and mounting: **CMV MK 600 TRACK** slope: **VERT** deg.
 hole diameter: **110** mm bearing: deg.
 R.L. surface: **~ 53** m
 datum: **NOT SURVEYED** operator: **G BAKER**

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 penetrometer kPa	structure and additional observations
123								TOPSOIL, sand, fine grained, slightly clayey				
					1.0		GM	GRAVEL, coarse, sandy, clay fines Dolerite	D	MD		
				N* = 25 (7, 8, 17)			GC	CLAY, low plasticity, sandy, silty some dolerite gravels (extremely minered dolerite)	D			
				N* > 60 (7, 27, ...)	2.0					VD		bouncing
					3.0			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 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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engineering log — cored borehole

File No.

MUSSELROE WIND FARM: PRELIMINARY
 project: GEDTECH INVESTIGATIONS.
 borehole location: GPS: 581834 (E) 5487897 (N)
 hole commenced: 30/3/05
 hole completed: 31/3/05
 supervised by: P BIRCH
 log checked by: T BOWLING

drill model and mounting: CMV MK 600 TRACK slope: VERT. deg. R. L. surface: ~ 53 m
 barrel type and length: HQT 2.6 fluid bearing: deg. datum: NOT SURVEYED Driller G. BAKER

drilling information			rock substance			rock mass defects			
method	case-lift	water	depth of metres	graphic log core loss	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
			1.0						
			2.0						
			3.0		CONTINUED FROM BOREHOLE SHEET				
			4.0	1-1	DOLOMITE, fine grained, light grey	MW			vertical + subvertical jointing closed, rough, irregular iron stained
			5.0	1-1		SW			3.5m open joint clay + gravel fill
			6.0	1-1					3.75m open joint clay + gravel fill
			7.0	1-1					4.0 → 5.0 sub horizontal jointing
			8.0	1-1		HW			5 → 5.3 sub vertical.
									5.3 → sub horizontal.
									6.4 → 8.2 Highly weathered - broken material (shear zone)

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 [hatched] core recovered (hatching indicates material) [empty] 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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