

engineering log - cored borehole

REF No 18290

QUAD 82

ACC 2

borehole no 4

MAP SHEET 83122

PUR O

sheet 1 of 2

E= 525900

N= 5252500

File No.

project: Elizabeth Matric College
borehole location: As per aerial photo

hole commenced: 12/7/76

hole completed: 15/7/76

supervised by: M.C.W

log checked by:

drill model and mounting: Mindrill F20C slope: Vert deg.
barrel type and length: NQ fluid water-bearing: deg.

R. L. surface: m

datum:

Driller S. Vanker

drilling information

rock substance

rock mass defects

method	case-lift	water	depth m	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		FILL					
			2		CLAY medium-high plasticity CH pale brown M-W Firm					? E.W. Siltstone
			3		CLAY medium plast. sandy CL yellow grey					? E.W. Siltstone & fine sandstone
			4		SANDSTONE interbedded with siltstone	EW				
			5		fine grained clay in seams pale brown					Bedding $\approx 30^\circ$
			6		yellow/brown					
			7		CONGLOMERATE interbedded with sandstone (coarse - fine grained)					
			8							

N(2,2,4)
= 6

N(6,10,12)
= 18

72%
recovery
w.L 30/7/76

63%
recovery

95%
recovery

80%
recovery

key	
method	case-lift
AS auger screwing	casing used
AD auger drilling	H barrel withdrawn
R roller/tricone	water
W washbore	10 Oct, 73 water level date shown
NMLC NMLC core drilling	water inflow
	partial drilling water loss
	complete drilling water loss

graphic log/core loss		weathering		strength (indirect tensile strength)	
core recovered (hatching indicates material)	Fr - fresh	EL - extremely low			
no core recovered	SW - slightly weathered	VL - very low			
	MW - moderately weathered	L - low			
	HW - highly weathered	M - medium			
	EW - extremely weathered	H - high			
		VH - very high			
		EH - extremely high			

21 100

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sheet 2 of 2

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supervised by: *M.C.W*
log checked by:

drill model and mounting: *Mindrill F20C* slope: deg. R. L. surface: m
barrel type and length: *NQ* fluid *water* bearing: deg. datum: Driller *S.Vonker*

drilling information			rock substance				rock mass defects		
method	case-lift	water	depth R: 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
NQ	100% recovery		8		<i>and siltstone (generally ≤ 100mm thick) with hornfels brown - grey/brown</i>				<i>Bedding $\approx 40^\circ$</i>
	50% recovery		9						<i>Bedding $\approx 30^\circ$ " $\approx 25^\circ$</i>
			11						
			11.59		<i>Terminating Depth 11.59 m</i>				

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 indi- cates 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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21 200