DEPARTMENT OF MAIN ROADS (TAS.)
MATERIALS AND RESEARCH DIVISION

M & R F8

borehole no: B90-11
sheet 1 of 3

engineering log — cored borehole

J1494 File No. 02·0346

project: VICTORIA BRIDGE DUPLICATION — DEVONPORT
borehole location: 10 m L of ℄ and parallel to existing W. abutment face 246760E 437914N

hole commenced: 10/4/90
hole completed: 11/4/90
supervised by: JR
log checked by: JGG

drill model and mounting: GEMCO 210 D slope: Vert. deg.
barrel type and length: NQTT 2·45m fluid H_2O bearing: deg.

R. L. surface: 2·35 m
datum: Stalk Driller G. Baker

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 30 100 300 1000 3000 >3000	defect description: thickness, type, inclination, planarity, roughness, coating. particular / general
AS			2·0		Well graded gravel with river washed pebbles in a sandy clayey matrix; moderately dense nature				
			1·0						
					N* = 10 20, 5, 5				
NQ TT			2·0		DOLERITE GRAVEL and sand layers				
			0·0						
			3·0						
					COARSE SAND				water colour change to grey
					N* = 6 1, 3, 3				
			4·0		→ see note				hole kept caving while attempting SPT
			-2·0						
			5·0						
					CLAYEY GRAVEL; dolerithic green				
					N* = 16 11, 12, 4				
			6·0						
			-4·0						
					DOLERITE; grey-brown fragments	HW – EW			water colour change to brown
			7·0						
			8·0						

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- barrel withdrawn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

DEPARTMENT OF MAIN ROADS (TAS.)
MATERIALS AND RESEARCH DIVISION

M & R F8

borehole no: B90-11
sheet 2 of 3

engineering log — cored borehole

J1494 File No. 02.0346

project: VICTORIA BRIDGE DUPLICATION — DEVONPORT
borehole location: 10 m L of ℄ and parallel to existing W. abutment face 246760E 4379141N

hole commenced: 10/4/90
hole completed: 11/4/90
supervised by: JR
log checked by: JGG

drill model and mounting: CREMCO 210 D
slope: Vert. deg.
R. L. surface: 2.35 m
barrel type and length: NQTT 2.45m fluid
bearing: deg.
datum: State
Driller G. Baker

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) VL L M H VH EH	defect spacing mm 30 100 1000 >3000	defect description: thickness, type, inclination, planarity, roughness, coating. particular / general
NQ			6.0		DOLERITE; clay, brown-green mottled, med. P.I.?, with occasional harder grey fragments	EW–HW			some granular texture still evident in sample
			9.0						
			10.0						
			10.8		; clay, orange-brown high P.I.?, coarse textured ; sandy	EW			possible in situ texture but weathered down to soil consistency
			11.0						
			12.0			MW			
			10.0						
			13.0		; medium to coarse grained, blue-grey, with brown occuring	SW			jointing mainly subhorizontal or steep (70° dip) to near vertical, in an erratic distribution, mostly rough planar and clay or iron oxide coated surfaces
			14.0			MW–Fr			
			12.0						
			15.0						
			16.0						

N* = 14
5, 7, 7

N* = 22
6, 10, 12

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) * test result
EL — extremely low
VL — very low
L — low
M — medium
H — high
VH — very high
EH — extremely high

DEPARTMENT OF MAIN ROADS (TAS.)
MATERIALS AND RESEARCH DIVISION

M & R F8

borehole no: B90-11
sheet 3 of 3

engineering log — cored borehole

J1494 File No. 02·0346

project: VICTORIA BRIDGE DUPLICATION — DEVONPORT
borehole location: 10 m L of ℄ and parallel to existing W. abutment face
246760E 4237914N

hole commenced: 10/4/90
hole completed: 11/4/90
supervised by: JR
log checked by: JGG

drill model and mounting: GEMCO 210 D slope: Vert. deg.
barrel type and length: NQTT 2·45m fluid bearing: deg.
R. L. surface: 2·35 m
datum: State Driller G. Baker

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	defect spacing mm 30 100 300 1000 3000	defect description thickness, type, inclination, planarity, roughness, coating. particular	general
NQ			14·0		DOLERITE; medium to coarse grained, blue-grey with occasional green-brown bands	MW Fr			joints mainly subhorizontal or near vertical iron-oxide coated	
			17·0							
			18·0							
			16·0							
			19·0							
					End of hole at 19·1m					

key

method
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- AD auger drilling
- R roller/tricone
- W washbore
- NMLC NMLC core drilling

case-lift
- casing used
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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)
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weathering
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strength (indirect tensile strength)
- EL — extremely low
- VL — very low
- L — low
- M — medium
- H — high
- VH — very high
- EH — extremely high