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

M & R F8

borehole no: B90-23
sheet 1 of 1

# engineering log — cored borehole

J1494 File No. 02.0346

BASS HWY. DUPLICATION

project: VICTORIA BRIDGE — DEVONPORT
borehole location: 27.5m Upstream of Pier 4 ℄ of existing bridge 446792E 437889N

hole commenced: 29/5/90
hole completed: 29/5/90
supervised by: IB/NDJ
log checked by: JGG

drill model and mounting: GEMCO 210D slope: Vert. deg.
barrel type and length: NQTT 2.45m fluid $H_2O$ bearing: deg.

R. L. surface: m
datum: State Driller G. Baker

| drilling information | | | | rock substance | | | | rock mass defects | |
|---|---|---|---|---|---|---|---|---|---|
| method | case-lift | penetration rate of washboring | depth in 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 |
| | | N* = 3 | -6.0 | | River Bed ↑ at R.L. 4.95 | | | | |
| | | no recovery | 6.0 | | | | | | |
| | | N* = 6 | -8.0 | | CLAY; sandy, sl. organic, dark brown – black | | | | med. to high PI <100 kPa hand penetrometer resistance |
| | | N* = 6 | 8.0 | | ; high PI, sandy, mottled grey-green | | | | |
| | | N* = 10 | -10.0 | | | | | | |
| | | no recovery | | | | | | | |
| | | N* = 19 | 10.0 | | ; sandy, fine gravelly, & EW dolerite kernels, mottled yellow-brown | | | | pockets of blue clay occur 120 kPa hand penetrometer resistance |
| | | N* = 24 | -12.0 | | | | | | |
| | | | 12.0 | | ; sandy, gravelly, yellow | | | | ? decomposed dolerite |
| | | | -14.0 | | DOLERITE; clayey, yellow-brown | EW – HW | | | oxidized joints (dk. brown – black) |
| | | | 14.0 | | | | | | |
| | | | -16.0 | | ; coarse grained, pale green | HW – MW | | | calcitized joints (white) |
| | | | 16.0 | | ; med. grained, blue-grey | MW – SW | | | " (pale green) |
| | | | -18.0 | | | | | | joints occur in numerous orientations predominantly 45° dip conjugate pairs and low angle axes (some sub-vertical ones) slickensiding common |
| | | | 18.0 | | | | | | joints are often clay, oxide or carbonate coated |
| | | | -20.0 | | ; med. – fine grained | SW | | | numerous fault bands visible with dominant carbonate seams |
| | | | -20.0 | | End of hole at 19.9m | | | | |

* Test Values

**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

**graphic log/core loss**
core recovered (hatching indicates material)
no core

**weathering**
Fr – fresh
SW – slightly weathered
MW – moderately weathered
HW – highly weathered
EW – extremely

**strength** (indirect tensile strength)
EL – extremely low
VL – very low
L – low
M – medium
H – high
VH – very high