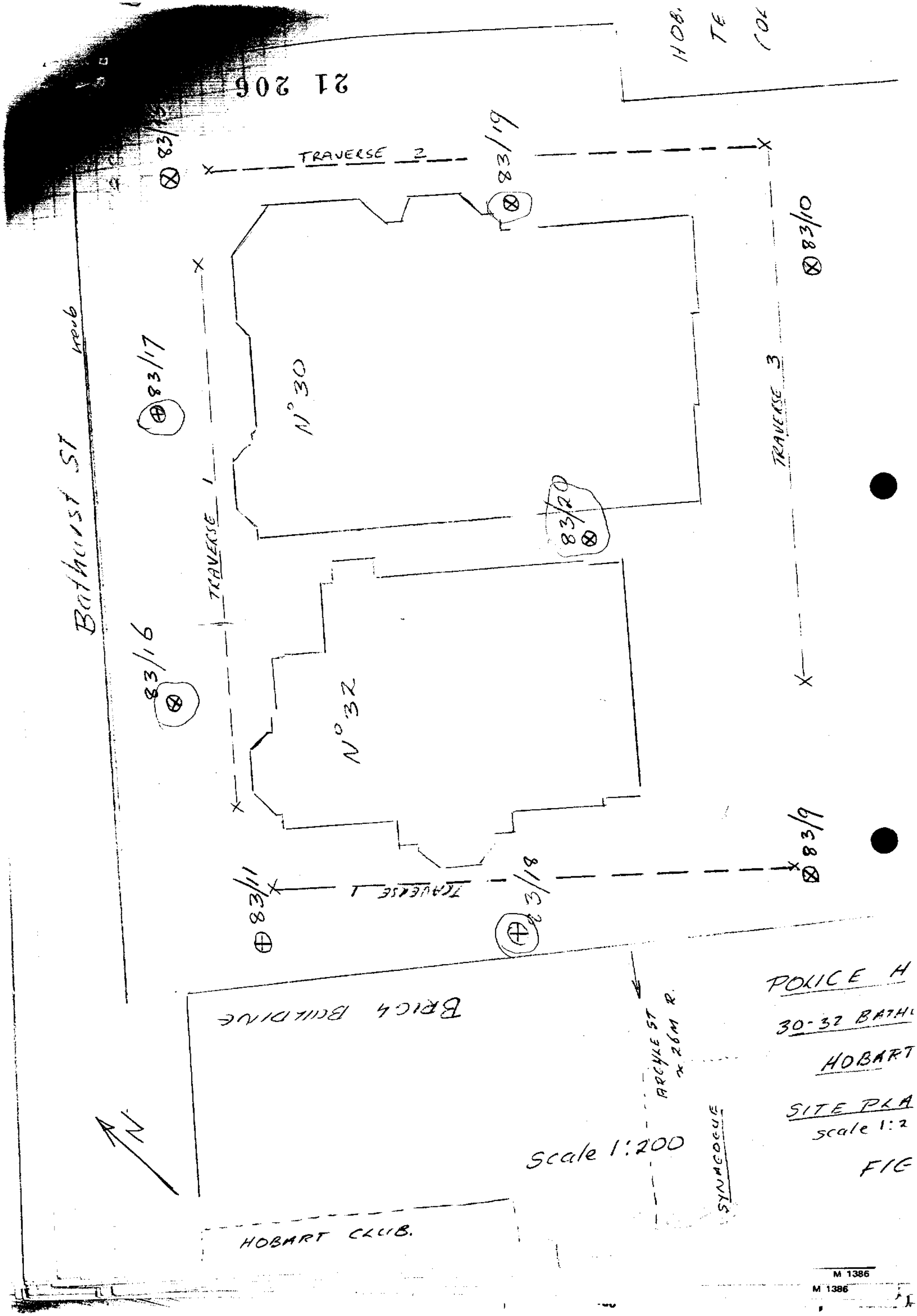

21 206
Bathurst ST
TRAVERSE 1
TRAVERSE 2
TRAVERSE 3
83/9
83/10
83/11
83/16
83/17
83/18
83/19
83/20
N° 30
N° 32
BRICK BUILDING
HOBART CLUB.
ARGYLE ST
x 26M R.
SYNAGOGUE
N
Scale 1:200
POLICE H
30-32 BATH
HOBART
SITE PLA
scale 1:2
FIG
M 1386

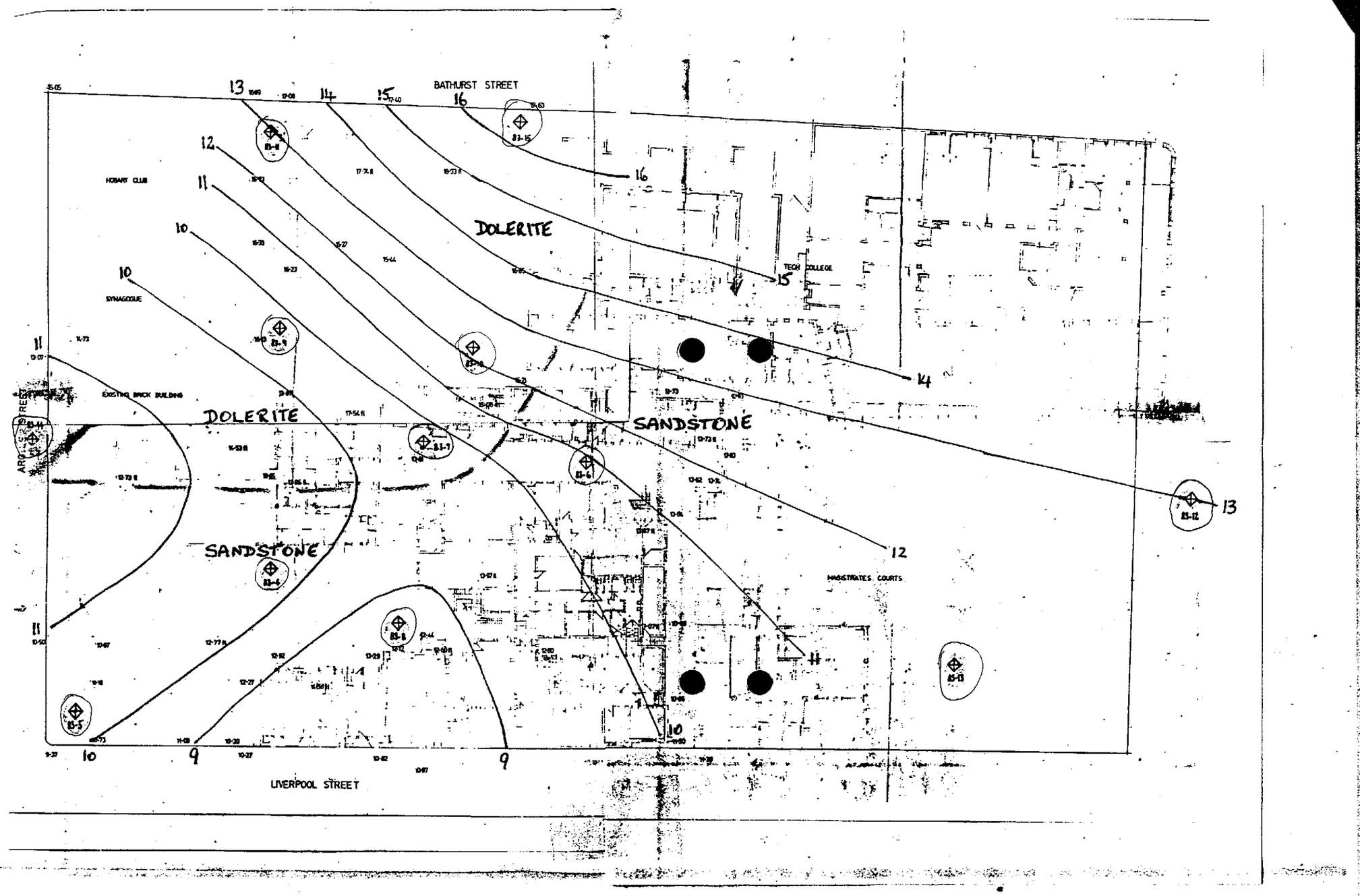

FIG 1: Location of boreholes New Police Headquarters, HOBART ⊕B3-4
Possible structural contours for top of in situ rock materials shown ——13
along with possible position of boundary between dolerite and sandstone — — —

method
AS auger screwing*
AD auger drilling*
R roller/tricone
W washbore
CT cable tool
* bit shown by suffix:
C casing
M mud

penetration
1 2 3 no resistance ranging to refusal

U50 – undisturbed sample 50 mm diameter
D – disturbed sample
N – standard penetration test:figure = result
N* – SPT + sample

based on unified classification system

moisture
D – dry
M – moist
W – wet

S – soft
F – firm
St – stiff
VSt – very stiff
H – hard
Fb – friable
VL – very loose
L – loose
MD – moderately dense

REF No 18309 ACC 1
QUAD 82 PUR 0
MAP SHEET 8312 2 E = 526710
N = 5252330
file: 04.053

borehole no: 83-20
sheet 1 of 3

engineering log – borehole

project: HOBART
borehole location: AS PER PLAN

NEW POLICE HEADQUARTERS
30-32 BATHURST STREET

hole commenced: 13/12/1983
hole completed: 14/12/1983
supervised by: N. JOHNSON
log checked by: R. R.

drill model and mounting: GEMCO + TRAILER
hole diameter: 110 mm
slope: VERT deg.
bearing: deg.
R.L. surface: 16.33 m
datum:
operator: G. BAKER

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
					16.0			PRIME & SEAL + RUBBLE				
AUGER SCREWING					1		SC	SANDY CLAY: - medium plasticity grey brown, fine sand	M	H		
				U75	14.0		CH SP	CLAY - high plasticity, fine sand filling vertical fissures	M	H	x x	
				N*=35 17,15,19	3		GC	GRAVELLY CLAY: - med. to hi plasticity brown, med size dolerite grave	M	MD		possibly weathered insitu dolerite
					4			Continued on Sheet 2 as cored bore hole				
					5							
					6							
					7							

21 239

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
1 2 3 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

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

M 1698

M & R F8

borehole no: BH 83-20

sheet 2 of 3

Engineering log — cored borehole

File No. 04-053

project: NEW POLICE HEADQUARTERS 30-32 BATHURST STREET HOBART

borehole location: AS PER PLAN

hole commenced: 13/12/1983

hole completed: 14/12/1983

supervised by: N. JOHNSON

log checked by: R.R.

drill model and mounting: GEMCO + TRAILER slope: VERT deg.

barrel type and length: 2·45" NQTT fluid bearing: deg.

R. L. surface: 16·33 m

datum: Driller S. 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	defect description: thickness, type, inclination, planarity, roughness, coating. particular / general
NQTT		19/12/83	4·40		DOLERITE: fine grained, blue brown	MW			
			11·5·0						
			10·6·0			SW			
			9·0 7·0						-60° joint
			9·0						

21 240

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 1386

TC408

PUBLIC WORKS (TAS.)
AND RESEARCH DIVISION

engineering log – cored borehole

borehole no BH 83-20
sheet 3 of 3

File No. 04-053

NEW POLICE HEADQUARTERS
30-32 BATHURST STREET
project: HOBART
borehole location: AS PER PLAN

hole commenced: 13/12/1983
hole completed: 14/12/1983
supervised by: N. JOHNSON
log checked by: R R.

drill model and mounting: GEMCO + TRAILER slope: VERT deg.
barrel type and length: NQTT 2.45 fluid bearing: deg.

R. L. surface: 16.33 m
datum:
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	defect description thickness, type, inclination, planarity, roughness, coating. particular / general
NQTT			10.0		DOLERITE: fine grained grey blue	SW Fr			vertical iron stained; 45° iron stained; 45-50° iron stained; 80° calcite coated; 45°, 1cm thick clay & calcite coating; 60° smooth; 45°-60° smooth grey coated. Mainly iron stained
			9.0						
			10.0						
			11.0						
			12.0			FR			
			12.6		END 12.6m				

21 241

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