

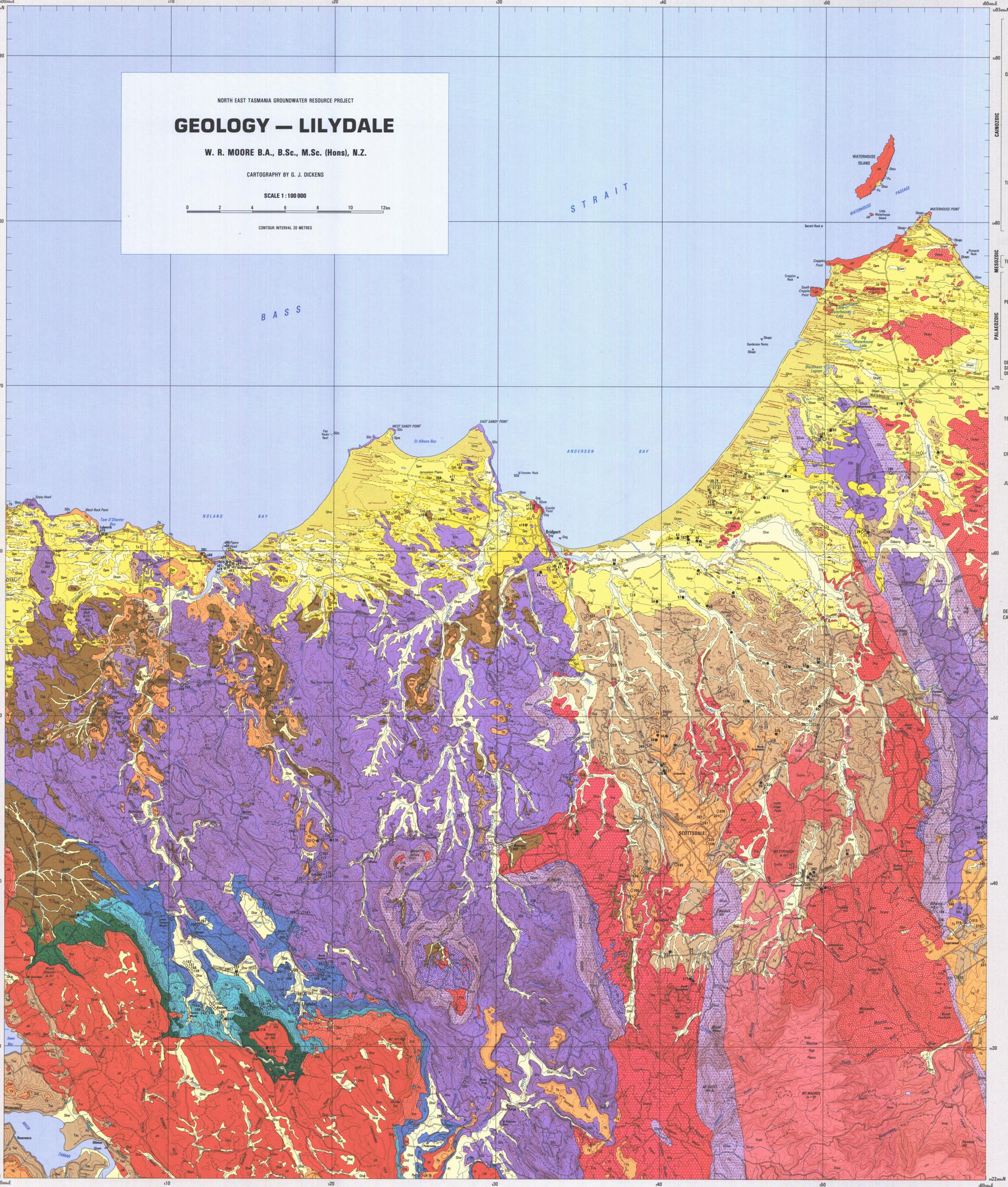
NORTH EAST TASMANIA GROUNDWATER RESOURCE PROJECT
GEOLOGY — LILYDALE

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CARTOGRAPHY BY G. J. DICKENS

SCALE 1:100 000

CONTOUR INTERVAL 20 METRES



LEGEND

QUATERNARY

- Qha Alluvium (Other Swamp deposits (Other), Tailings of alluvial mines (Other))
- Qsa Younger alluvial dune sand, beach sand and gravel. Major active and stabilised dune ridges indicated.
- Qta Talus, scree and slope deposits (Other) derived from basalt (Other)
- Qda Derived from dolerite (Other)
- Qma Derived from Mathinna Beds (Other)

CRETACEOUS

- Ca Apolites with andesitic lava flow and lamprophyre dykes.

JURASSIC

- Ja Dolerite.

DEVONIAN-CARBONIFEROUS

MINOR GRANITIC INTRUSIONS

- Qma Aphanitic quartz and/or admetite gneiss.
- Qma Porphyry veins and minor outcrops.

MAJOR GRANITIC INTRUSIONS

BLUE TIER BATHOLITH

- Qma Undifferentiated non-porphyrific admetite gneiss — deeply weathered outcrops.
- Qma Porphyritic fine to coarse grained biotite-muscovite admetite gneiss. Phenocrysts of variable size and distribution, generally feldspar and quartz (Other). Fine grained (Other), medium grained (Other) and coarse grained (Other).
- Qma Equigranular fine to coarse grained biotite-muscovite admetite gneiss (Other), fine to medium grained (Other) and coarse grained (Other).
- Qma Fine to coarse grained equigranular biotite hornblende granodiorite.

SCOTTSDALE BATHOLITH

- Qma Undifferentiated non-porphyrific admetite gneiss — deeply weathered outcrops.
- Qma Sparingly porphyritic, medium to coarse grained biotite-muscovite admetite gneiss. Apatite, micro granite and fine grained admetite dykes common. Few pegmatite veins (Other).
- Qma Equigranular fine to medium grained biotite with variable muscovite admetite gneiss. Veining uncommon.
- Qma Fine to medium grained equigranular biotite hornblende granodiorite.

Geological boundary — position approximate.

#1 Borehole number.
 □ Cable tool drill.
 ● Rotary drill.
 ○ Down-hole hammer tool.
 ◆ Diamond drill.
 * Spear bore.

DEPARTMENT OF MINES DRILLERS
 Cable tool drilling by C. Morgan 1959/60; T. Johnson 1969/72; J. Hamersley 1970/71; K. N. Harper 1970/75; M. J. Karivon 1972/82.
 Rotary and down hole hammer drilling by T. J. Green 1973/75; K. M. Richardson 1972/80; R. Stevens 1981/88.
 Diamond drilling C. Lewis 1972/75; G. M. Baker 1977/79.
 Spear bore testing by B. E. Cox, K. N. Harper, M. J. Karivon, K. M. Richardson.

PRIVATE CONTRACT DRILLERS
 Cable tool drilling by H. J. Scazzola 1973
 Rotary and down hole hammer drilling by G. Scadding 1974.

RESIDUAL GRAVITY ANOMALY MAP
(BOUGUER ANOMALY MINUS MANTLE 88)

MARCH 1990
 (View with back map)

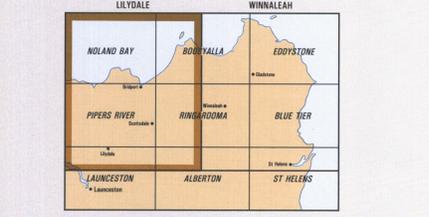
BOUGUER DENSITY 2.67 t/m³ CONTOUR INTERVAL 2 mgal

All data terrain corrected.

Data sources listed in: RICHARDSON, R.G., LEAMAN, D.E. 1987
 TASGRAY — The Tasmanian Gravity Data Base
 (Opened for use since 1987/88).

Data processing: 1000 metre mesh 8000 metre scan distance
 no additional smoothing.

Data compilation by R.G. Richardson, B.Sc. (Hons), Ph.D.
 MANTLES made by G.E. Lamson, B.Sc. (Hons), Ph.D.
 Computer mapping by R.J. Sedgman.



Base map adapted from the 1:100 000 map series produced by the Department of Environment and Planning, Hobart.

Geology adapted from Noland Bay, Pipers River, Launceston 1:50 000 geological map series; Riverview, Riverview, Eddystone, Blue Tier, St Helens 1:50 000 geological map series and Launceston 1:250 000 geological map.

Geological map production by the Cartographic Section of the Geological Survey, Division of Mines and Mineral Resources, Department of Resources and Energy.

W. L. Matthews, B.Sc., Acting Deputy Chief Geologist, Engineering Geology and Groundwater Section.
 Compiled under the direction of M. R. Hargreaves, Acting Director of Mines.
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