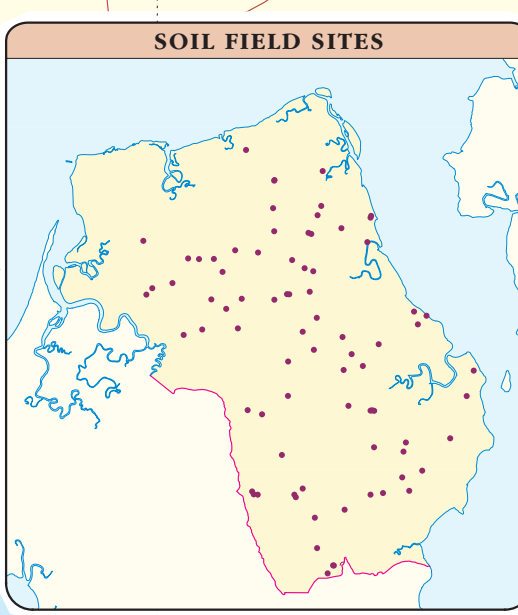
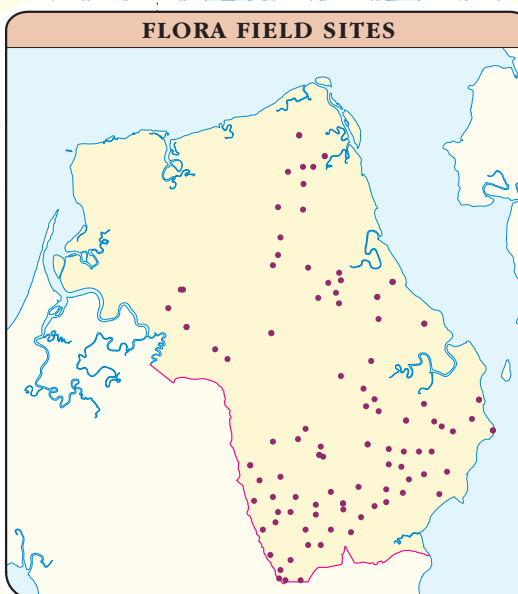
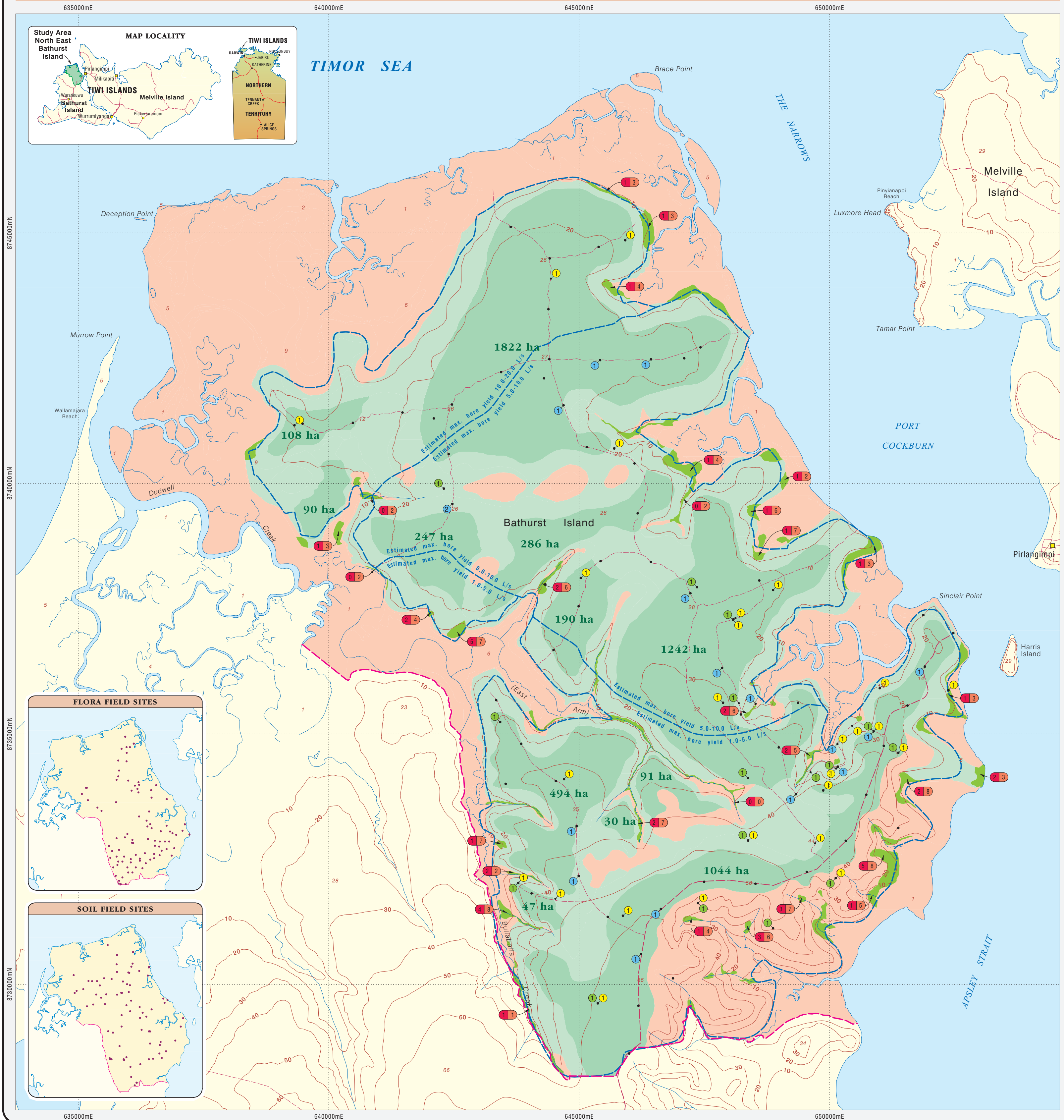


AGRICULTURAL LAND SUITABILITY



FAUNA SPECIES

Threatened species records within the study area

- 1 Brush-tailed rabbit rat *Coniurus penicillatus*
- 2 Pale field-rat *Rattus tunneyi*
- 3 Tiwi masked owl *Tyto novaehollandiae melvillensis*
- 4 Fauna field sites

FLORA SPECIES

Number of Threatened (EPBC Act or TPWC Act) or significant (TPWC Act) species per monsoon forest patch within the study area.

- 1 Threatened species
- 2 Significant species
- 3 Monsoon forest patch

Data have been compiled from historical surveys and targeted field survey conducted in October 2014.

These surveys utilised a hybrid-survey method incorporating traditional plot based methods supplemented by plotless inventory.

AGRICULTURAL LAND SUITABILITY

HIGHLY SUITABLE
Suitable land with minimal limitations. Highly productive requiring only low management practices. (Slope 0-1%; rock outcrop - nil; soil depth >1.5m; soil drainage - rapid to well; erosion risk - low)

MODERATELY SUITABLE
Suitable land with only moderate limitations. Would require only minor management practices. (Slope 1-3%; rock outcrop - 0-2%; soil depth 0.5-1.5m; soil drainage - moderate; erosion risk - moderate)

MARGINALLY SUITABLE
Land having severe limitations. Would require major management practices. (Slope 3-10%; rock outcrop - 2-10%; soil depth 0.25-0.5m; soil drainage - imperfect to poor; erosion risk - substantial)

NOT SUITABLE
Land not suitable for agriculture, having severe limitations. This includes land with erosion risk due to steep slopes, soil depth, rocky outcrops, and poor drainage. (Slope >10%; rock outcrop - >10%; soil depth <0.25m; soil drainage - very poor; erosion risk - high), and intertidal areas.

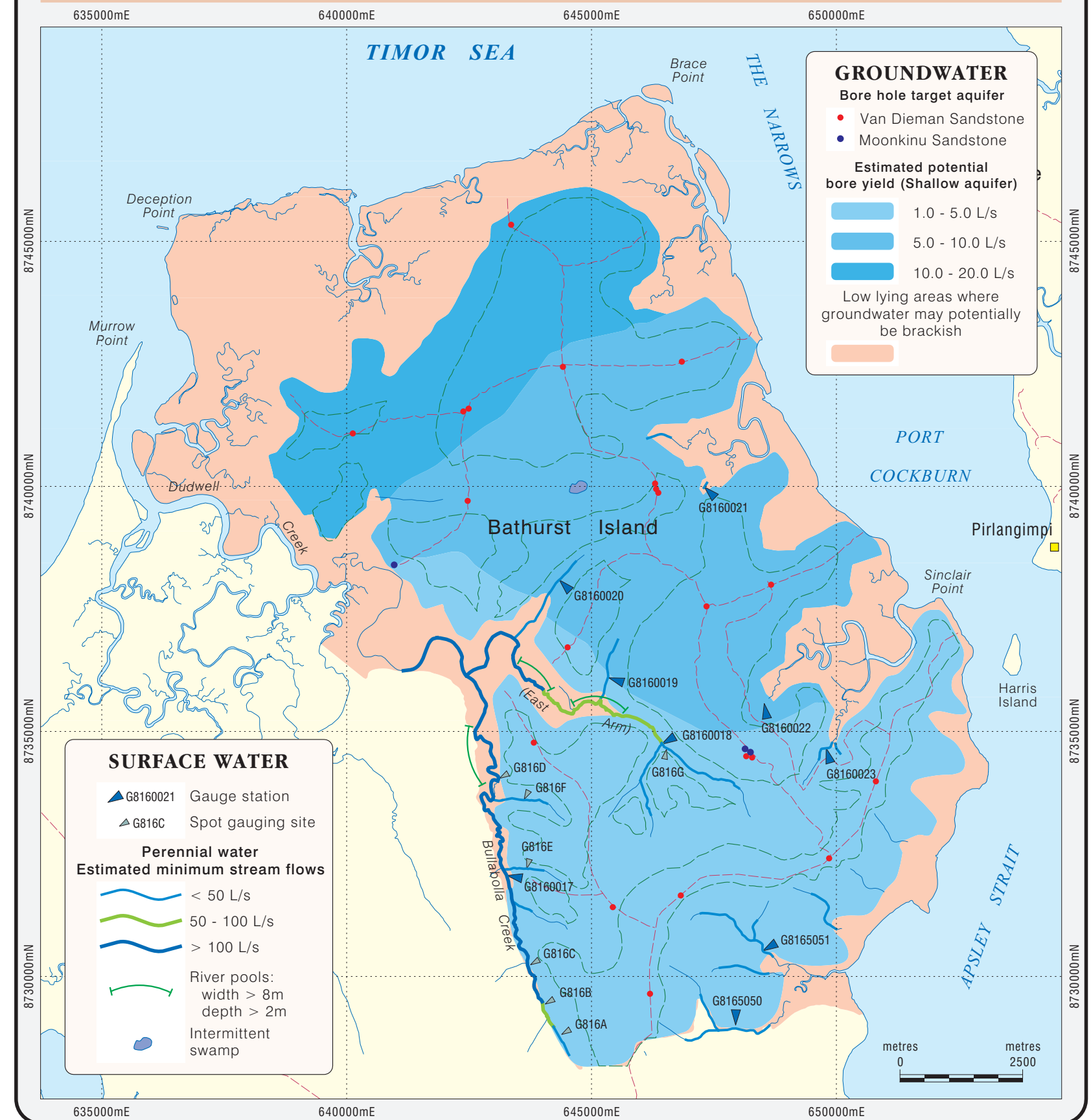
GENERAL FEATURES

- Study area boundary
- Existing road
- Major community
- Drainage line
- Temporary access track
- Contour, value
- Spot height

Black numbered lines are 5000 metre intervals of the Map Grid of Australia (MGA) Zone 52 - Transverse Mercator Projection
Horizontal Datum: GDA 94. Vertical Datum: metres AHD

Prepared: December 2014

WATER RESOURCES



SURFACE WATER

- G8160021 Gauge station
- G816C Spot gauging site

Perennial water

Estimated minimum stream flows

- < 50 L/s
- 50 - 100 L/s
- > 100 L/s

River pools: width > 8m, depth > 2m

Intermittent swamp

GROUNDWATER

Bore hole target aquifer

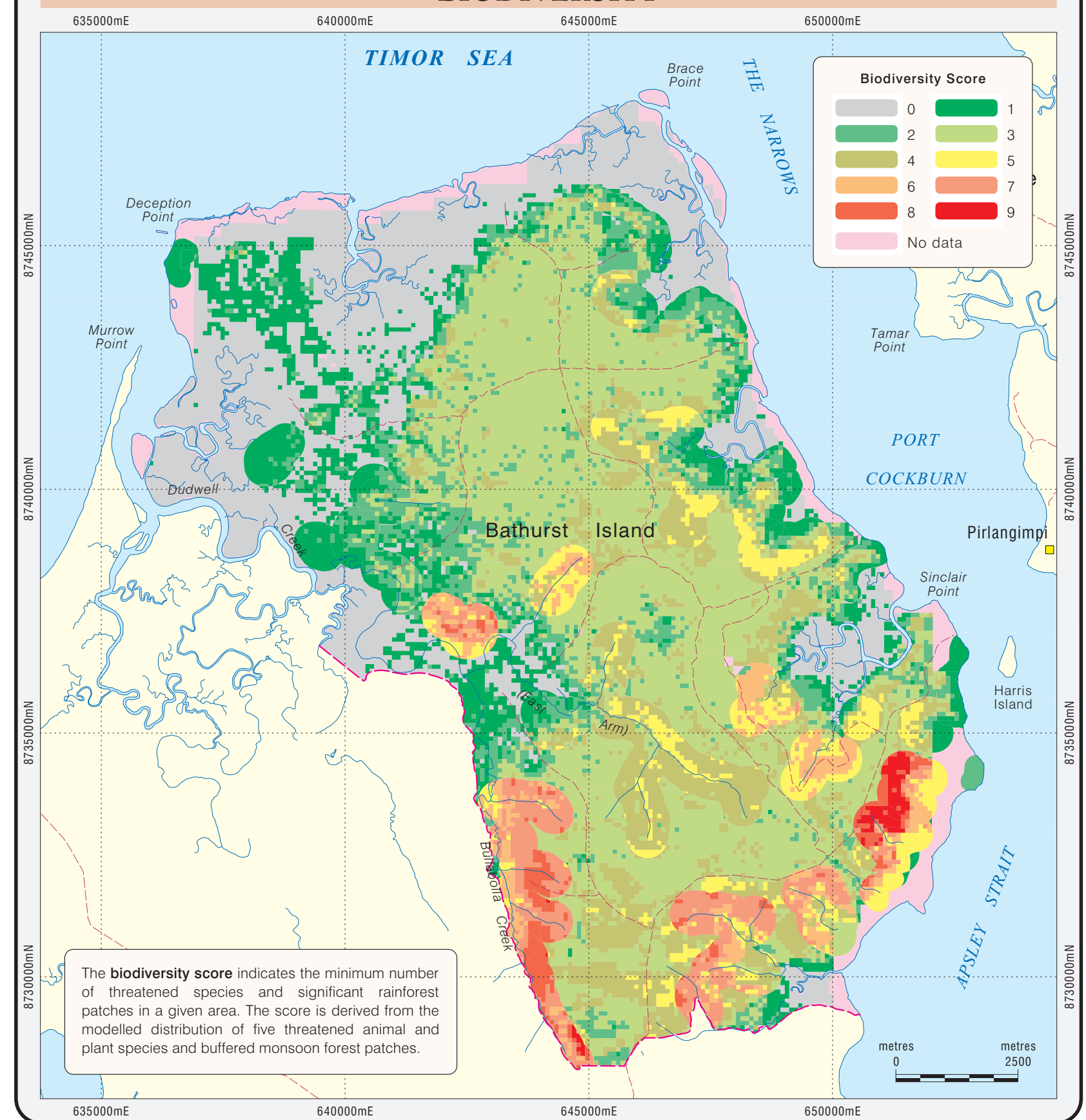
- Van Dieman Sandstone
- Moonkinu Sandstone

Estimated potential bore yield (Shallow aquifer)

- 1.0 - 5.0 L/s
- 5.0 - 10.0 L/s
- 10.0 - 20.0 L/s

Low lying areas where groundwater may potentially be brackish

BIODIVERSITY



Biodiversity Score

- 0
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- No data

The biodiversity score indicates the minimum number of threatened species and significant rainforest patches in a given area. The score is derived from the modelled distribution of five threatened animal and plant species and buffered monsoon forest patches.

TIWI ISLAND ECONOMIC DEVELOPMENT SUMMARY of the BIO-PHYSICAL RESOURCES of NORTH EAST BATHURST ISLAND