

LAND RESOURCES of SOUTH EAST BATHURST ISLAND

BIBLIOGRAPHIC REFERENCE:

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TECHNICAL REFERENCES:

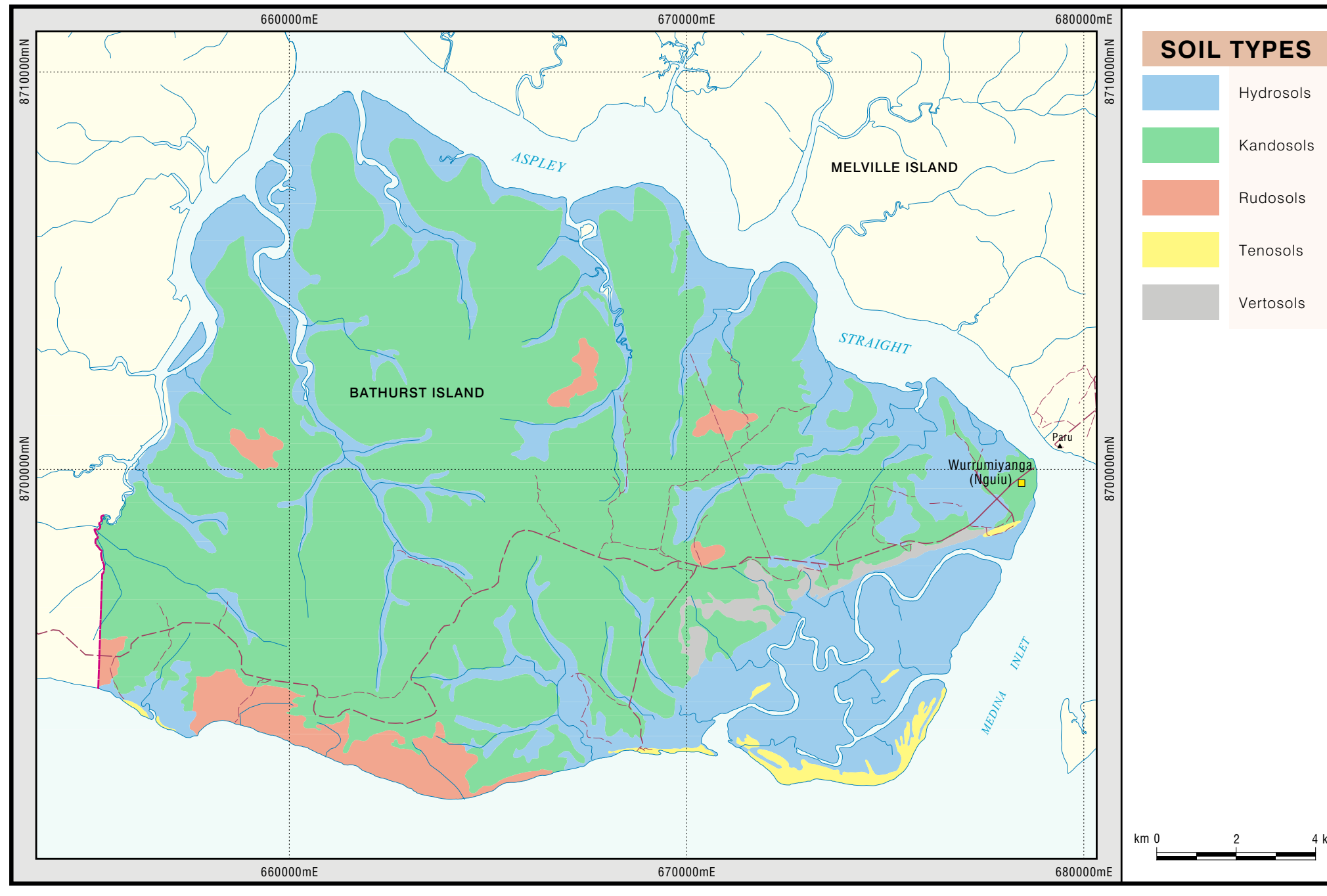
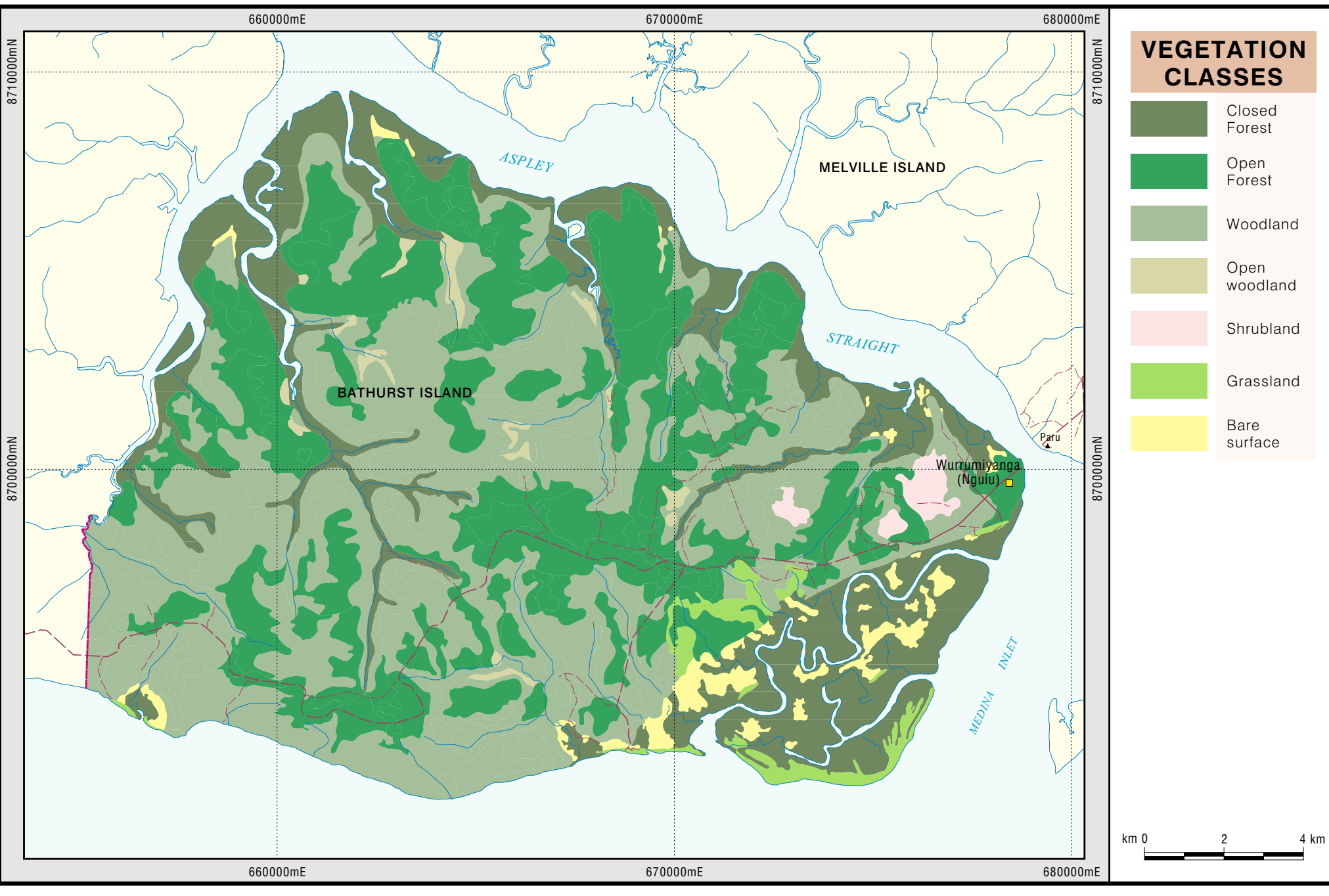
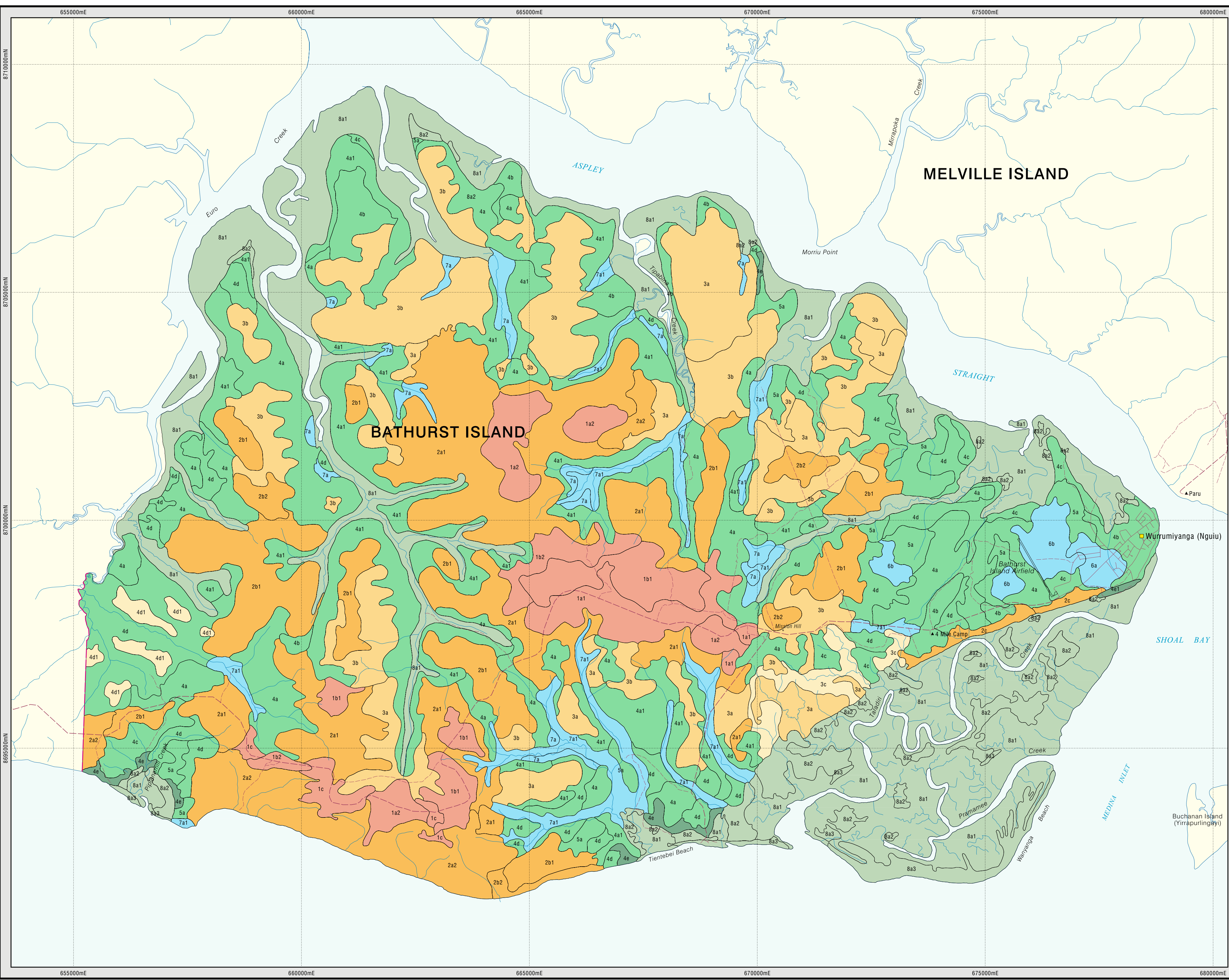
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Land resource information has been derived from aerial photograph interpretation and field collection of data describing landform, soil and vegetation. Mapping has been collected according to the national standards and prepared at a scale of 1 : 50 000. Enlarging this map beyond this scale will not provide further detail.

A site inspection should always accompany mapping for specific areas.

LAND UNIT DESCRIPTIONS

PLATEAUX		PLAINS	
1a1	Plateau surfaces; generally flat with slopes less than 1%; no outcrop or surface gravel. Kandosols. Deep loamy red massive earths; gradational sandy loam to fine sandy clay loam; no gravel; well drained. Eucalyptus miniata with E. tetradonta and E. nesophila open forest	4a	Colluvial slopes below plateau surfaces, rugged and undulating terrain; slopes less than 3%; no rock outcrop or surface gravel. Kandosols. Deep, loamy red and sandy red massive earths; gradational sandy loam or loamy sand to fine sandy clay loam; no gravel; well drained. Eucalyptus miniata with E. nesophila and E. tetradonta open forest
1a2	Plateau surfaces; flat to gently sloping, 1-3% slope; no outcrop or surface gravel. Kandosols. Deep, sandy red massive earths; gradational, loamy sand to sandy clay loam; no gravel; well drained. Eucalyptus miniata with E. tetradonta and E. nesophila open forest	4a1	Gentle colluvial slopes frequently abutting drainage lines or river/mangrove margins. Kandosols. Deep, sandy red massive earths, with minor red earthy sands; gradational, loamy sand to sandy clay loam; no gravel; well to excessively well drained. Eucalyptus miniata and E. tetradonta woodland to open forest
1b1	Plateau surfaces; flat to gently sloping, <1% slope; no outcrop or surface gravel. Kandosols. Deep, sandy red massive earths; gradational, loamy sand to sandy clay loam; no gravel; well drained. Eucalyptus miniata with E. tetradonta and E. nesophila open forest	4b	Flat to gently sloping areas in similar site position to 4a1 units; slopes less than 2%; very rare rock outcrop. 20-80% surface gravel. Kandosols. Moderately deep gravelly red massive earths; gradational loamy sand to gravelly sand clay loam; 5-20% gravel throughout profile; well drained. Eucalyptus miniata and E. nesophila open forest
1b2	Plateau surfaces; flat to gently sloping, 1-3% slope; no outcrop or surface gravel. Kandosols. Deep, sandy red massive earths; gradational, loamy sand to sandy clay loam; no gravel; well drained. Eucalyptus miniata with E. nesophila open forest	4c	Gentle slopes, occasionally below rugged terrain; slopes less than 3%; no surface gravel. Kandosols. Deep yellow massive earths; gradational fine sandy clay loam to moderately deep gravelly red massive earths; gradational loamy sand to gravelly sand clay loam; 5-20% gravel throughout profile; well drained. Eucalyptus oligantha with Corymbia bella, E. grandifolia and Corymbia foelscheana mixed spp., woodland
1c	Plateau surfaces; gentle slope less than 3%; rare ferricrete outcrop and 20-50% surface gravel. Kandosols. Moderately deep, gravelly red massive earths; gradational loamy sand to gravelly sandy clay loam; 5-20% gravel throughout profile; well drained. Eucalyptus nesophila with E. tetradonta, E. miniata and Corymbia bleeseri open forest	4d	Long slopes found below 2b1, 2b2 and occasionally 3b land units; slopes less than 2%; 50-80% surface gravel. Kandosols. Moderately deep gravelly yellow massive earths; gradational sandy loam to sandy clay loam; 5-20% gravel throughout profile; moderately well drained. Eucalyptus tetradonta with E. nesophila and E. miniata woodland
2a1	Plateau sideslopes; slopes 5-15%; common ferricrete outcrop and 20-80% surface gravel. Kandosols. Shallow to moderately deep gravelly red massive earths with minor occurrence of yellow massive earths; gradational loamy sand to gravelly sandy clay loam; 10-30% gravel throughout the profile; well drained. Eucalyptus tetradonta with E. miniata and Corymbia bleeseri woodland to open forest	5a	Flat to gently sloping terrain lying between upland terrain and littoral areas or drainage lines, can be dissected by drainage channels; slopes up to 3%; very rare rock outcrop. 20-80% surface gravel. Hydrosols. Shallow to moderately deep duplex soils; uniform loam to gravelly loamy sand to gravelly sandy clay loam; 5-20% gravel throughout; soils are superficially moderately well drained but are often underlain by a mottled gravel pan which perches water in t. Melaleuca viridiflora woodland with emergent E. tetradonta and E. nesophila
2a2	Plateau side slopes; slopes greater than 15%; abundant rock outcrop; 50-80% surface gravel. Rudosols. Very shallow stony red and yellow lithosols; uniform sand to loamy sand with gravel; 40-60% gravel and stone throughout the profile; well drained. Corymbia bleeseri, E. tetradonta and E. miniata woodland	6a	Broad drainage basins at low elevations in landscape; slopes less than 1%; no surface gravel; slight debil debris surface condition. Hydrosols. Shallow to moderately deep duplex soils; fine sandy loam to gravelly light clay; 5-10% gravel in lower A and upper B horizons; poorly drained. Melaleuca viridiflora woodland with emergent E. nesophila and Corymbia bella
2b1	Ridges and associated slopes, relief to 50 m; slopes 5-15%; common ferricrete outcrop; 80% surface gravel. Kandosols. Shallow to moderately deep, gravelly yellow massive earths with minor occurrence of gravelly red massive earths; gradational, loamy sand to gravelly sandy clay loam; 10-30% gravel throughout the profile; well drained. Eucalyptus tetradonta, E. miniata and Corymbia bleeseri woodland to open forest	6b	Broad drainage floors and basins at low elevations in landscape; slopes less than 1%; 20-40% surface gravel in patches. Hydrosols. Shallow to moderately deep duplex soils; sandy loam to light medium clay; dense gravel layer at 30-50cm; poorly drained. Melaleuca viridiflora low open shrubland
2b2	Rugged hills and ridges up to 80 m high, occasionally above the plateau surface; slopes greater than 15%; abundant to massive rock outcrop; 50-80% surface gravel. Rudosols. Very shallow gravelly yellow and red lithosols; uniform, sand to loamy sand with gravel; 40-60% gravel and stone throughout the profile; well drained. Eucalyptus miniata, E. tetradonta and Corymbia bleeseri variable woodland	7a	Drainage flats, associated creeks and drainage lines; negligible slope; no rock outcrop or surface gravel; slight debil debris surface condition. Hydrosols. Polygenetic soils of alluvial origin; uniform loamy sands or sandy loams overlying medium clays; 5% gravel in deep subsoil; well drained. Melaleuca viridiflora with Melaleuca nervosa, Lophostemon lactifolius mixed spp., low open woodland
2c	Rugged terrain above littoral area and below plateau surface; slopes 5-15%; 0-5% surface gravel. Vertosols. Deep seasonally cracking uniform brown clays; uniform light clay to heavy clay; 5-10% gravel throughout profile; poorly drained. Eucalyptus oligantha woodland with minor E. nesophila and E. tetradonta	7a1	Drainage flats, associated creeks and drainage lines; negligible slope; no rock outcrop or surface gravel; slight debil debris surface appearance. Hydrosols. As for 7a. Eucalyptus tetradonta with E. nesophila, Corymbia ptychocarpa and Lophostemon lactifolius woodland
3a	Undulating terrain below plateau surfaces and rugged terrain, also forming broad rises between drainage lines below the plateau surface; slopes less than 5%; rare ferricrete outcrop, 10-60% surface gravel. Kandosols. Moderately deep gravelly, red massive earths with minor occurrence of yellow massive earths; gradational loamy sand to gravelly sandy clay loam; 5-20% gravel throughout profile; well drained. Eucalyptus miniata, E. tetradonta and E. nesophila open forest	8a1	Tidally inundated coastal and river margin areas; slopes less than 1%. Hydrosols. Unconsolidated saline muds. Bruguiera gymnorhiza, Lummitera racemosa, Rhizophora stylosa mixed spp., low closed forest
3b	Undulating terrain associated with rugged areas, commonly broad rises between drainage lines below the plateau surface; slopes less than 5%; rare ferricrete outcrop; 10-60% surface gravel. Kandosols. Moderately deep gravelly yellow massive earths with minor occurrence of red massive earths; gradational loamy sand to gravelly sandy clay loam; 5-20% gravel throughout profile; well drained. Eucalyptus miniata open forest. Minor E. tetradonta open forest in areas	8a2	Saline flats adjacent to the coast and areas of unconsolidated saline muds. Hydrosols. Uniform light to medium clay with sand throughout profile; highly saline. Devoid of vegetation
3c	Undulating terrain above littoral area with relief to 10 metres; slopes 5-5%; no surface gravel. Vertosols. Deep seasonally cracking uniform brown clay; uniform light clay to heavy clay; no gravel in profile; poorly drained. Sorghum plumosum, Imperata cylindrica, Themeda triandra mixed spp., grassland	8a3	Coastal dunes; relief to 4m; slopes 0-30%. Tenosols. Unconsolidated beach sands. Spinifex longifolius grassland with low shrubs of Micromelum minutum, Altophyllum cobbe and Xora tomentosa
4d1	Erosional rises associated with the slopes of unit 4d; slopes less than 1%; 50-80% surface gravel. Kandosols. Shallow gravelly yellow massive earths; gradational sandy loam to sandy clay loam; 20% gravel throughout profile; moderately well drained. Corymbia bleeseri with E. tetradonta woodland and occasional E. nesophila		



kilometres 1 0 1 2 3 4 5 kilometres

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

GENERAL FEATURES

Limit of land unit survey	—
Land unit boundary	—
Major community	■ Wurrumiyanga
Family outstation	▲ 4 Mile Camp
Minor road: unsealed	—
Local road / track	—
Coastline	—
Drainage line	—
Named relief feature	* Mission Hill

This map was produced on the Geocentric Datum of Australia 1994 (GDA 94)

Cartography - L. Fritz, April 2011

Spatial Data and Mapping, Natural Resources Division,
 Department of Natural Resources, Environment, The Arts and Sport
 Northern Territory of Australia

File Reference: South-East-Bathurst-Is_Land-Resources

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