

493127

NELSON LAGOON

Undulating plains formed on Quaternary sands and clays occupy inland areas of Flinders Island.

Soils vary from mottled duplex soils on the ridges, broad flats and small rises to dark grey and mottled gradational soils on the flat plains and old coastal lagoons. All soils are deep. Lunettes of yellow sand flank the eastern sides of some of the old lagoons.

Soils in this system include those in the Bootjack, Wingaroo, Petibela, Memana and Liapota Soil Associations described by Dimmock (1957).

Blue gum, Smithton peppermint, paperbark and *Leptospermum* spp., dominate the woodland and open-scrub vegetation.

Most of the area has been cleared and sown to pasture for grazing.

The principal hazards are wind, sheet and gully erosion.

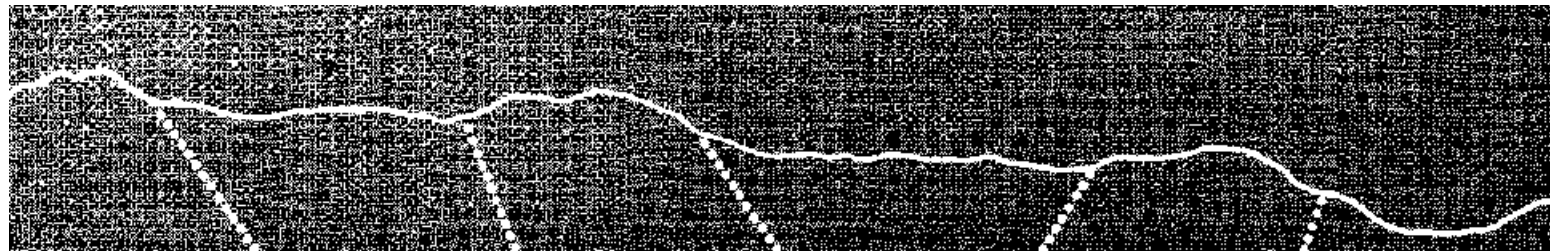


Flat plains and low ridges

LAND SYSTEM

493127

Nelson Lagoon



COMPONENT	1	2	3	4	5	6
PROPORTION %	10	20	15	25	15	15
CLIMATE	Average Annual Rainfall 750-1 000 mm					
GEOLOGY	Quaternary sands and clays					
TOPOGRAPHY	Undulating coastal plains					
Land form	Ridges	Flat plains	Low ridges	Broad flats	Small rises	Old coastal lagoons
Position						
Average Sideslope °	3	1	2	1	2	2
NATIVE VEGETATION	Low woodland		Woodland		Open-scrub	
Structure						
Association	Blue gum, smithton peppermint, paperbark, bracken fern	Blue gum, prickly box, <i>Acacia genistifolia</i> , manuka, paperbark, prickly mimosa, yacca, <i>Ledifolia</i> spp	Smithton peppermint, paperbark, manuka <i>Leptospermum glaucescens</i> , honeysuckle, yacca	Smithton peppermint, honeysuckle, <i>Leptospermum glaucescens</i> , yacca, pin-rushes	Smithton peppermint, honeysuckle, yacca, <i>Casuarina monilifera</i> , needle bush, <i>Leptospermum glaucescens</i>	Smithton peppermint, <i>Leptospermum glaucescens</i> , <i>Leptospermum laevigatum</i> , paperbark, prickly box, yacca
SOIL	Mottled grey (10 YR 6/1) yellowish brown (10 YR 5/8) duplex soil, organic-iron B horizon	Mottled dark grey (10 YR4/1) strong brown (7.5 YR5/8) gradational soil, with ironstone	Brownish yellow (10 YR 6/8) duplex soil	Mottled pale brown (10 YR 6/3) Yellowish brown (10 YR 5/8) duplex soil	Mottled grey (10 YR 5/1) yellowish brown (10 YR 5/8) duplex soil	Very dark grey (10 YR 3/1) gradational soil
Surface Texture	Sandy loam	Sandy clay loam	Sandy loam	Loamy sand		Clay loam
Permeability	Moderate	Low		Moderate		Low
Average Depth m				>20		
PRESENT LAND USE	Grazing					
HAZARDS	High wind erosion	Moderate wind, gully and sheet erosion	High wind erosion	Low wind, gully and sheet erosion	Moderate wind erosion	Low sheet and gully erosion