LAND SYSTEM **South Arm**

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Area(ha): 1100					
OMPONENT	λ	В	c	D	E
ROPORTION (%)	20	20	30	20	10
AINFALL (mm)	Approximate Annual Rainfall: 500-625				
EOLOGY	Permian Mudstone/Siltstone				
OPOGRAPHY	Low Hills and Associated Flats				
osition	Crests/Upper Slopes	Lower Slopes/Flats	Sandy Lower Slopes/Flats	Sandy Flats	Clay Drainage Flats
ypical Slope(°)	10	6	3	0	0
ATIVE VEGETATION tructure			Woodland		
Floristic Association (See Appendix 1 for common names)	Eucalyptus viminalis <u>Pteridlum esculentum</u> <u>Lomandra longifolia</u> <u>Casuarina stricta</u> <u>Dianella revoluta</u> <u>Astroloma humifusum</u>				Eucalyptus ovata Melaleuca sguarrosa Melaleuca glbbosa Lomandra longifolia Leptospermum scoparium leptocarpus tenax Epacrls lanuglnosa Empodisma minus Sprengelia incarnata
OIL Gurface (A) Texture	Clay Loam/Sandy Loam	Loamy Sand/Sandy Clay Loam	Loamy Sand	Loamy Sand	Clay
Horizon (subsoil) olour (moist) exture and rimary profile orm	Shallow stony heavy clay- Dark yellowish brown (10 YR 4/4). Duplex.	Deep clay - Light olive brown (2.5 Y 5/4) to dark yellowish brown (10 YR 4/4) Duplex.	Deep sand - Various colours e.g. light grey (5 Y 7/1) to dark brown (10 YR 4/3) to yellowish brown (10 YR 5/4). Uniform.	Deep sandy clay - strong brown (7.5 YR 5/8). Duplex.	Deep clay - Grey (10 YR 5/1) to yellowish brown (10 YR 5/8). Uniform.
Permeability	High/Moderate	Moderate	High	Moderate	Low
ypical depth(m)	0.50	0.80	>1.40	>1.40	>1.40
AND USE	Grazing, Cropping, Sandmining				
IAZARDS	Moderate/High Sheet, Rill, Gully, Tunnel, Wind Erosion				Flooding, Waterlogging

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SOUTH ARM

This land system includes low hills and associated flats formed on interbedded sequences of mudstone and sandstone in the South Arm region.

Stony crests and upper slopes commonly contain a shallow (0.50 m) duplex soil consisting of a sandy loam to clay loam surface over a dark yellowish brown heavy clay.

Lower slopes and flats usually have a deep duplex (0.80 m) soil with a loamy sand or sandy clay loam surface over a light olive brown to dark yellowish brown clay. Sandy lower slopes and flats commonly contain a deep (>1.40 m) uniform light grey, dark brown or yellowish brown sand.

Sandy flats may also have a deep (>1.40 m) duplex soil consisting of a loamy sand surface over a strong brown sandy clay. All these soils support a woodland dominated by *Eucalyptus viminalis* over an understorey of *Pteridium* esculentum, Lomandra longifolia, Casuarina stricta, Dianella revoluta and Astrolomahumifusum.

Clay drainage flats typically contain a deep (>1.40 m) uniform grey to yellowish brown clay that supports a *Eucalyptus ovata* woodland. The understorey includes *Melaleuca squarrosa*, *Melaleuca gibbosa*, *Lomandra longifolia*, *Leptospermum scoparium*, *Leptocarpus tenax*, *Epacris lanuginosa*, *Empodisma minus* and *Sprengelia incarnata*.

This country is particularly prone to erosion. Sheet, rill, gully, tunnel and wind erosion typically occur on the slopes and flats whilst flooding and waterlogging occur on the drainage flats with clayey soils. Grazing and cropping are the major land uses. Sand mining occurs on the deep sands.



Mudstone crests (foreground) looking south towards Fort Direction and the township of South Arm.