

### HILLS

Aileron	HA	Low hills, ranges and outcrops with little surface relief, drained by an open network of narrow but well defined watercourses. Shallow, gritty lithosols amongst rock outcrop. A sparse cover of low-growing acacia shrubs over spinifex or Buck Wanderoo.
Harts	HN	Steep-sided mountain peaks and ridges dissected by narrow, closely spaced watercourses. Shallow, coarse textured lithosols. Sparse shrubs, including cassias and acacias, over spinifex and Kangaroo grass.
Napperby	NA	Low ranges and outcrops characterised by slopes strewn with large rounded boulders, bare rock faces and few defined drainage lines. Shallow, gritty lithosols amongst rock outcrops. Sparse Witchetty Bush with occasional Coppert Pine, Ghost Gum and Bloodwood over pockets of Woollybutt, Mulga, Native Millet, Cotton Panic, Kangaroo and Buck Wanderoo grasses. Blue-leaf Cassia and other low shrubs with Curly Windmill grass on lower slopes.

### LOW HILLS

Bond Springs	BS	Bare rocky hills and ridges, often with prominent quartz reefs. Lower slopes have gentle grasses and are drained by small creek channels. Coarse textured lithosols amongst rock outcrops, with gritty brown alluvial soils along creek tracks. Sparse Witchetty Bush and Mulga or low shrubs over Oak, Woollybutt, Mulga and Keroseno grasses. Tallies and other forbs. Perennial grasses such as Umbrella grass occur under trees. Rock outcrop areas are bare or may support spinifex and Buck Wanderoo.
Hann	HN	Prominent strike ridges with steeply-inclined faces. Drainage pattern absent or very poorly developed. Shallow, coarse textured lithosols. A sparse cover of low shrubs, mainly acacias and Holly Ganderoo, over Hard Spinifex.

### LOW RISES

Woolta A	WA	Low rises with little surface relief. No defined drainage pattern. Shallow red calcareous soils, consisting of gravely sandy clay loams overlying caliche. An open shrubland of Witchetty Bush with scattered Mulga and low shrubs, mainly Bromebush over Oak grass and Limestone Oak grass.
----------	----	--

**Example of Land System Description**

Aileron	HA	Map Line	Landform Description
			Vegetation Description
			Soil Description

### LAND SYSTEM DESCRIPTIONS

Boen A	BA	Gently undulating plains with low surface features. The landscape is drained by surface flow, and defined creek lines are absent. Red earths, usually with a gradation in texture from sandy clay loam at the surface to light clay at depth. Ironstone gravel occasionally present. A dense shrubland of Mulga growing in closely spaced groves. Ground cover consists of Wire grass, Woollybutt grass, Keroseno grass.
Boen B	BB	Gentle slopes, part of Boen A, but receiving run-on from adjacent land types. Red earths, with textures grading from sandy clay loams at the surface to light clays at depth. Ironstone gravel is occasionally present. A dense shrubland of Mulga, growing in closely spaced groves, over Woollybutt grass and Mulga grass with scattered palatable perennials including Cotton Panic grass and Umbrella grass.
Dahly	DA	Gentle slopes adjacent to Pularoo A and plains with low surface relief. Drained by surface flow, and defined watercourses usually absent. Red earths, consisting of sandy clay loams grading to sandy clays at about 0.5 m. Quartz gravel is abundant on the soil surface and throughout the profile. An open shrubland of groved Mulga with scattered low shrubs, mainly Green-leaf Cassia and Blue-leaf Cassia, over Woollybutt grass and Mulga grass. Cotton Panic grass, Umbrella grass and other palatable perennial grasses occur beneath the Mulga canopy.
Pularoo A	PA	Gently sloping plains, usually as an apron surrounding ranges or outcrops. Drainage lines usually poorly-developed. Red earths, consisting of gritty sandy clay loams at the surface usually grading to light clays at depth. Decomposing granite occurs at about 0.5 m. Open woodland of Mulga, Whiteoak with Witchetty Bush, Corriwook or Bloodwood or Mulga and Woollybutt grasses, Umbrella, Curly Windmill, Native Millet and Cotton Panic grasses grow amongst the trees. Silky Browntop, Diverse Bluegrass and Queensland Bluegrass are present in minor depressions.
Ryan	RY	Gently sloping terrain, usually adjacent to Pularoo land system drained by an open pattern of broad depressions. Texture-contrast soils, usually consisting of a shallow, An open cover of Cotobush in association with perennial grasses mainly Curly Windmill grass, Umbrella grass and Newtall grass. Woollybutt grass and Mulga grass and Copbertree. Scattered Hallett Emu Bush occurs throughout.
Weldon	WD	Gently sloping terrace deposits, usually flanking quartzite mountain ridges, drained by small extensive spaced watercourses. Isolated pockets of terrace gravels are remnants of older, more extensive deposits. Red earths, usually gravelly and containing large cobbles of quartzite. Soil texture grades from sandy clay loams at the surface to light clays at depth. A dense shrubland of Mulga over mainly Wire grass, Spinifex and Blue Mallee occur on gravelly surfaces with little cover.
Woolta B	WB	Plains with little surface relief, drained by broad drainage flows. Large claypanes or swamps are an occasional feature of this landscape. Shallow red earths, usually sandy clay loams in texture, overlying caliche. Deeper red earths occur along drainage depressions and banks of coarse textured alluvial soils are occasionally present. Open shrubland of Mulga, occasionally Witchetty Bush and Corriwook over Woollybutt, Mulga and Umbrella grasses. Sandy alluvials have scattered Ironwood and Mulga or Keroseno grass and Woollybutt, Clavysia fringes and Lignum.

### ALLUVIAL PLAINS

Kanandra	KA	Sandy alluvial fans originating as outwash from the ranges. The fans are featureless and watercourses are largely absent. Coarse textured alluvial soils. Surface horizons consist of sandy loams usually overlying light clay loams at about 0.3m. An open woodland of Ironwood and Whiteoak with occasionally Corriwook and Supplejack over Keroseno grass, Woollybutt grass, Wire grass, Purple Plumegrass, Mulga grass and some Woollybutt grass and Oak grass.
Sandover	SA	Sandy floodplain and floodout deposits developed on the lower reaches of watercourses draining from the range country. Small claypanes are often a feature of the lower margins of the floodplain. Alluvial soils, usually consisting of deep sandy loams or coarse sandy clay loams, with light clays at the foot of the floodouts as claypan deposits. Open woodland of Whiteoak and Ironwood with oak, Pisky Wathe over Oak, Woollybutt and Mulga and some Curly Windmill, Silky Browntop, Kangaroo and Upland grasses. Keroseno and Woollybutt grasses occur on the sandier soils, while dense stands of Corriwook and tussock grasses occur on the floodout channels.

### SAND PLAINS

Singleton	SN	Sandplain with level or slightly undulating relief, sometimes featuring low dunes or poorly defined drainage depressions. Deep earthy sands, usually loamy sand or sandy loam in texture, sparse cover of low growing acacia and occasionally, Dogwood, Bloodwood, Corriwook, Mulga or Whiteoak with Feathertop Spinifex, Blue Mallee and Hard Spinifex occur in the south-western part of the station.
-----------	----	---

### DRAINAGE SYSTEMS

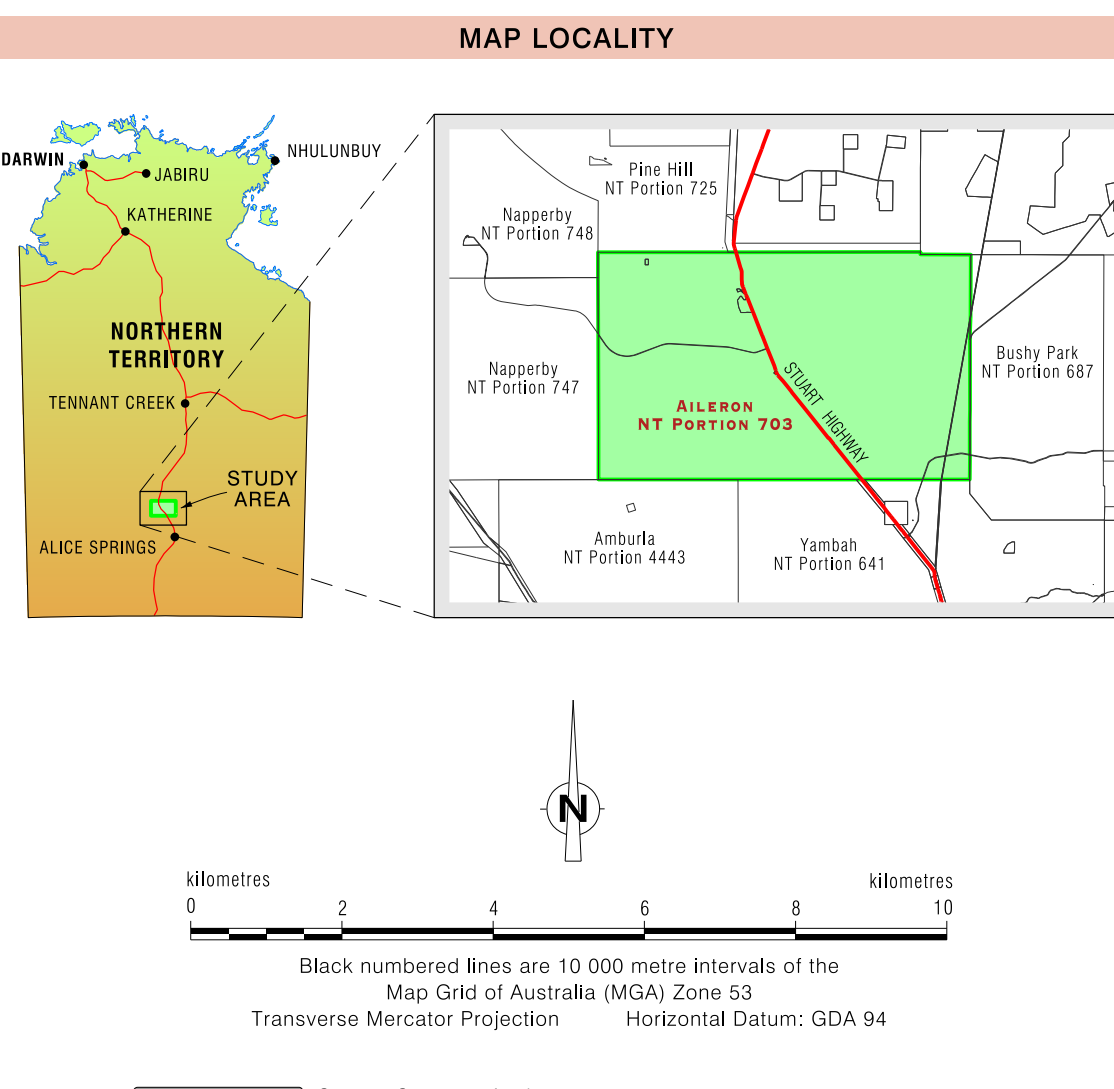
Bushy Park	BP	Broad, flat-floored drainage tracts with very slight slopes carrying run-on from adjacent uplands. Creek channels are absent. Deep red earths, with textures grading from sandy clay loams at the surface to light clays at about 0.5 m. Dense shrubland of Mulga and occasionally Witchetty Bush over palatable perennial tussock grasses including Native Millet, Diverse Bluegrass, Silky Browntop, Cotton Panic and Umbrella grasses. Some annuals, mainly Mulga and Woollybutt grasses.
Pularoo B	PB	Drainage floors with little surface relief and a very gentle fall, usually featuring shallow watercourse channels. Texture-contrast soils occur throughout: medium textured (sandy clay loam) surface horizon overlying a sandy clay. Occasionally the soil profile consists of a sandy loam overlying a sandy clay, and these soils are highly vulnerable to salting. Open cover of Cotobush with palatable perennial grasses including Curly Windmill, Umbrella and Newtall grasses, and occasionally Frankenia and Copperbark. Isolated Mulga and Whiteoak and Pisky Wathe or Dead Finish often fringe water courses.

### GENERAL FEATURES

Water Bore	Water Bore (Not Equipped)	Water Bore (Equipped)	Water Bore (NE)
Dam	Milkfords Dam	Coco Tank	Milkfords Dam
Trough	Stock Yard	Milks Trough	Milks Trough
Water pipeline	Gas pipeline	Tower	Tower
Drainage	Lagoon / waterhole	Relief feature	Relief feature
Relief ridge	Relief ridge	Relief ridge	Relief ridge

**General features data sources:**  
 Cadastre, roads, place names:  
 Department of Infrastructure, Planning and Logistics, Northern Territory of Australia.  
 Pastoral Infrastructure and Parks:  
 Department of Environment, Parks and Water Security, Northern Territory of Australia.  
 Hydro features:  
 Commonwealth of Australia (Bureau of Meteorology) 2014  
 Spot heights:  
 Geoscience Australia, 2007. Geodata topo 250K, Series 3.

**Cartography by:**  
 Deborah Mullin and Paul Kobuszewski - Geospatial Services  
 Department of Environment, Parks and Water Security  
 Northern Territory of Australia.  
 Map Reference: Map, Aileron-Str, Land-Res, 100k, m33  
 Drawing Number: **DEPWS 2020 092**  
 October 2020



**Limitations of use**  
 Land Resource Information has been derived from aerial photograph interpretation and field data collection describing landform, soil and vegetation. Mapping has been collected at a nominal scale of between 1:100 000 and 1:250 000. Enlarging this map beyond this scale will not provide further detail and is not recommended.  
 Final mapping is presented at a scale of 1:100 000.  
 When assessing specific areas within the mapping it is recommended that a site inspection be undertaken to establish unmaped variations and to confirm the mapping accuracy on the ground.

**For further information contact:**  
 Department of Environment, Parks and Water Security  
 Director, Land Assessment, Rangelands Division  
 Ph: (08) 8999 4478; Email: rangeland@nt.gov.au  
 Level 3, Glyder Centre, 25 Chung Wah Terrace,  
 Palmerston, Northern Territory of Australia  
 Web: https://depws.nt.gov.au  
 Geospatial Information: https://maps.nt.gov.au

**NORTHERN TERRITORY GOVERNMENT**

**LAND RESOURCES OF AILERON STATION**