LAND RESOURCES of THE GARDEN STATION

Northern Territory Government

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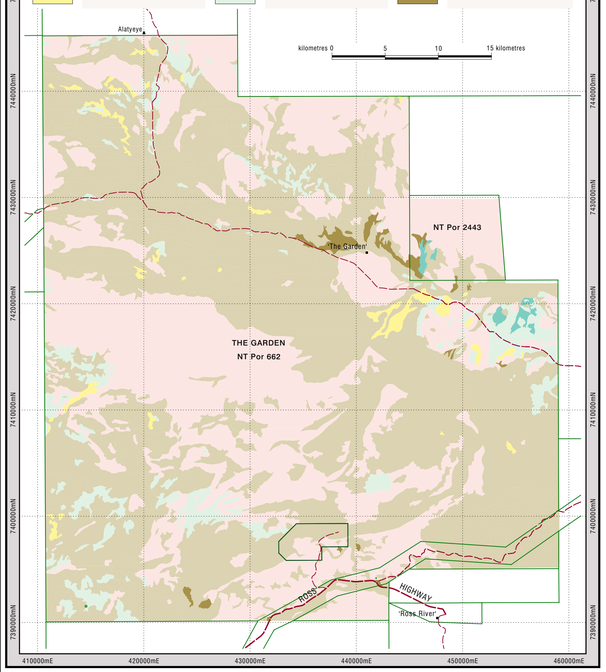
BIBLIOGRAPHIC REFERENCE:
Jessop, P.J. (April 1996) ***THE LAND RESOURCES OF THE GARDEN STATION*** **Technical Memorandum 96/06**
Department of Lands, Planning and Environment, Alice Springs, NT.

TECHNICAL REFERENCES:

Isbell R.F (1998). "The Australian Soil Classification". CSIRO Publishing, Melbourne.
McDonald R.C, Isbell R.F, Speight J.G, Walker J. and Hopkins M.S (1998). "Australian Soil and Land Survey Field Handbook", 2nd edition, Inkata Press, Melbourne.

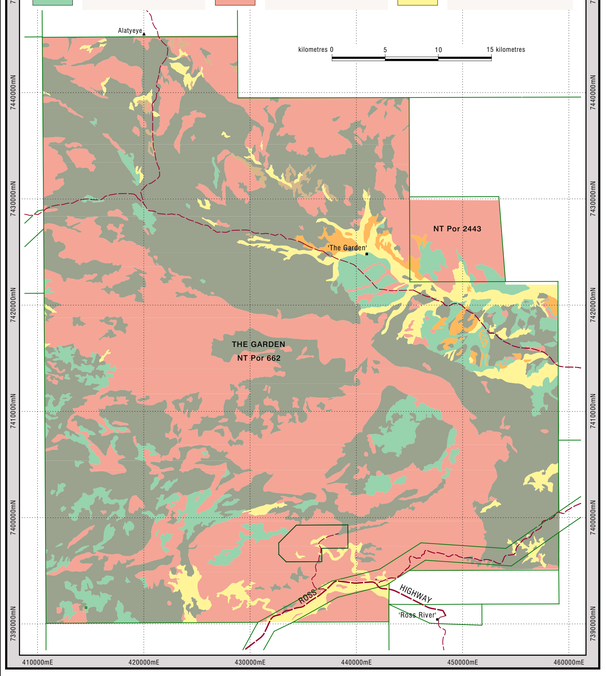
VEGETATION CLASSES

Woodland; Open woodland; Shrubland; Hummock grassland; Grassland; Chenopod shrubland



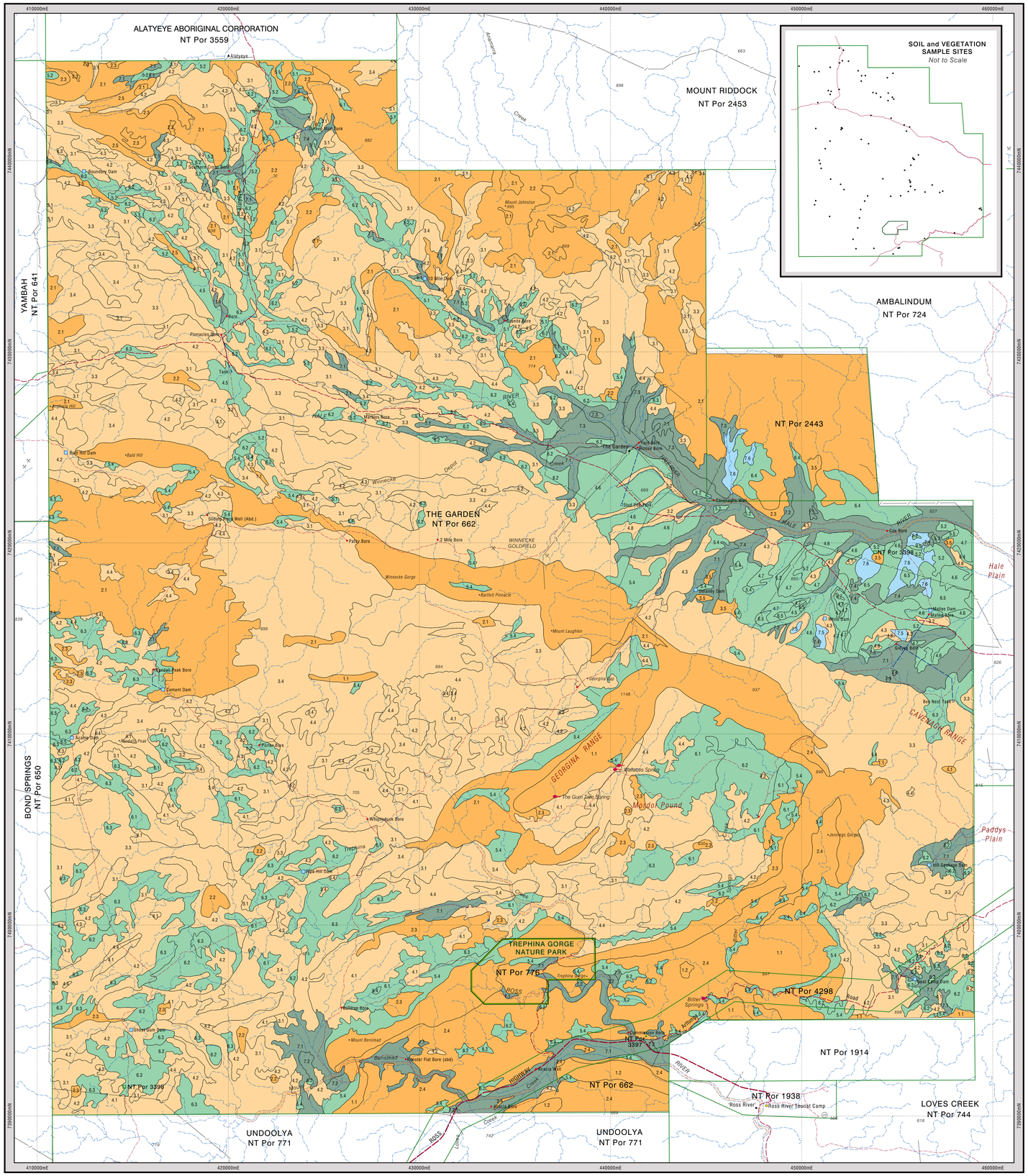
SOIL TYPES

Calcarosols; Chromosols; Dermosols; Kandosols; Rudosols; Tenosols



GENERAL FEATURES

Land unit boundary	Highway - unsealed	Water pipeline
Property boundary	Minor road - unsealed	Mine point
Park / reserve	Track	Watercourse, mainly dry
Ross River Tourist Resort — Locality	Fenceline	Waterhole
The Garden — Pastoral homestead	Bore	The Gum Tree Spring — Spring
Alatyeye — Family outstation	Commission Bore — Dam	Mountain
Landing ground	Delaney Dam — Stud Pok Tank — Water tank	Mount Laughlen 19 — Spot elevation



SOIL and VEGETATION SAMPLE SITES

Not to Scale

LAND UNIT DESCRIPTIONS

LOW HILLS

1.1	Quartzite ridges with abundant outcrop. Lithosols (Rudosols). Acacia aneura and Eucalyptus oxymitra low open woodland over Triodia brizoides low sparse hummock grassland.
1.2	Sandstone ridges with abundant stone cover. Lithosols (Rudosols). Acacia aneura and Atalaya hemiglauca tall open shrubland over mixed spp., low grassland and forbs
2.1	Granulite ridges with abundant outcrop. Lithosols (Rudosols). Acacia aneura and Acacia kempeana tall open shrubland over mixed spp., low sparse grassland.
2.2	Calcareous pyramidal hills with abundant outcrop. Lithosols (Rudosols). Acacia kempeana and Atalaya hemiglauca tall open shrubland over mixed spp., sparse grassland and forbs
2.3	Large granite hills. Lithosols (Rudosols). Acacia aneura and Acacia kempeana tall open shrubland over sparse grasses and forbs.
2.4	Gravelly pyramidal limestone hills. Lithosols (Rudosols). Acacia kempeana and Eremophila freelingii tall open shrubland over Triodia longiceps mid high open hummock grassland.
2.5	Linear ridge crests with abundant outcrop. Lithosols (Rudosols). Acacia aneura, Acacia kempeana and A. tetragonophylla low open woodland over mixed spp., low sparse tussock grassland.
3.5	Gently undulating low hills. Lithosols (Rudosols). Acacia aneura and Acacia estrophiolata low open woodland over grasses.

RISES

3.1	Calcareous low hills with sparse stone cover. Calcareous red earths (Calcarosols). Atalaya hemiglauca and mixed spp., mid high open woodland.
3.2	Stony foot slopes. Lithosols (Rudosols). Senna artemisioides spp. helmsii and Eremophila freelingii tall open shrubland.
3.3	Low pyramidal hills with abundant outcrop. Red calcareous soils (Calcarosols). Acacia aneura and Acacia kempeana low open woodland over Enneapogon polyphyllus and Aristida strigosa low sparse grassland.
3.4	Low hills with rounded crests and abundant outcrop. Lithosols (Rudosols). Acacia aneura and Acacia kempeana tall open shrubland over mixed spp., grasses and forbs.
4.1	Granitic rises with abundant outcrop. Lithosols (Rudosols). Hakea lorea spp. lorea, Corymbia opaca and Acacia kempeana low open woodland over sparse grasses and forbs.
4.2	Calcareous rises with sparse stone cover. Red calcareous soils (Calcarosols). Acacia aneura, Acacia kempeana and/or Atalaya hemiglauca low open woodland over sparse forbs and isolated grasses.
4.3	Calcareous rises with dense stone cover, low hills and ridges. Red calcareous soils (Calcarosols). Triodia longiceps mid high open hummock grassland.
4.4	Gently undulating plains with spare gravel. Red earths (Calcarosols). Corymbia opaca and Acacia aneura tall open shrubland over sparse grasses.
4.8	Ironstone residuals. Stony soils - Lithosols (Rudosols). Acacia aneura low isolated shrubs.

PLAINS

4.5	Gravelly quartz rises. Red earths (Kandosols). Acacia aneura low open woodland over sparse grasses and forbs.
4.6	Terrace surfaces (mesas and plains). Stony red earths (Kandosols). Acacia aneura tall open shrubland.
4.7	Dissected breakaways and wash areas. Texture contrast soils (Dermosols). Atriplex vesicaria low sparse shrubland.
5.1	Gently undulating plains. Lithosols (Chromosols). Enteropogon acicularis and Aristida holathera low sparse tussock grassland.
5.2	Level to gently undulating plains with sparse gravel. Red calcareous soils (Kandosols). Aristida strigosa and Eragrostis holathera low isolated grasses.
5.3	Gently undulating plains with sparse gravel. Red calcareous soils (Kandosols). Eucalyptus oxymitra, Eucalyptus intertexta and Acacia aneura low open woodland.
5.4	Gently sloping rises with abundant quartzite cobbles. Lithosols (Rudosols). Acacia aneura and Atalaya hemiglauca low open woodland.
5.5	Gently undulating plains. Lithosols (Chromosols). Maireana astrotricha low open shrubland.
6.1	Level to gently undulating plains on granite. Red earths (Kandosols). Acacia aneura and Acacia kempeana low open woodland over mixed spp., low sparse grassland.
6.2	Level to gently undulating plains on calcareous rock. Red calcareous soils (Calcarosols). Acacia estrophiolata low open woodland over mixed spp., low sparse grassland.
6.3	Level to gently undulating plains with sparse outcrop. Red earths (Kandosols). Aristida contorta and Enteropogon acicularis low tussock grassland.
6.4	Plains. Red earths (Kandosols). Acacia aneura low open woodland.
6.5	Gently undulating plains. Calcareous and highly alkaline soils (Calcarosols). Astrebla spp. and Eragrostis setifolia low open grassland.

ALLUVIAL PLAINS

7.1	Level floodplains. Red alluvial soils (Rudosols). Acacia estrophiolata and Eucalyptus camaldulensis OR Eucalyptus camaldulensis and Hakea eyreana low open woodland.
7.2	Level floodplains. Red alluvial soils (Tenosols). Eucalyptus camaldulensis and Hakea eyreana low open woodland over mixed spp., annual grasses.
7.3	Level floodplains. Alluvial soils (Dermosols). Atriplex nummularia tall open chenopod shrubland over mixed spp., low sparse forbland.
7.4	Level to gently undulating alluvial plains. Red brown earths (Tenosols). Maireana aphylla and Eremophila sturtii tall open chenopod shrubland.

DRAINAGE SYSTEMS

7.5	Floodplains and floodouts. Alluvial soils (Dermosols). Aristida holathera mid high tussock grassland.
7.6	Drainage floors. Alluvial soils (Kandosols). Enteropogon acicularis with Eulalia aurea and Themeda triandra mid high tussock grassland.

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 : 100 000. Enlarging this map beyond this scale will not provide further detail. A site inspection should always accompany mapping for specific areas.

MAP LOCALITY & 1:100 000 MAP SHEET INDEX

INDEX TO ADJOINING SHEETS

BUSHY PARK 5662	ALCOOTA 5752	DELNY 5852
BURT 5651	LAUGHLEN 5751	RIDDOCK 5851
ALICE SPRINGS 5650	UNDOOLYA 5750	FERGUSSON RANGE 5850

Cartography by L. Fritz, February 2010
Spatial Data and Mapping, Natural Resources Division,
Department of Natural Resources, Environment, The Arts and Sport
Northern Territory of Australia
File Reference: The-Garden-Stn_Land-Resources

kilometres 0 2 4 6 8 10 kilometres

Black numbered lines are 10 000 metre intervals of the Map Grid of Australia (MGA) Zone 53 Transverse Mercator Projection
Horizontal Datum: GDA 94 Vertical Datum: AHD (metres)

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