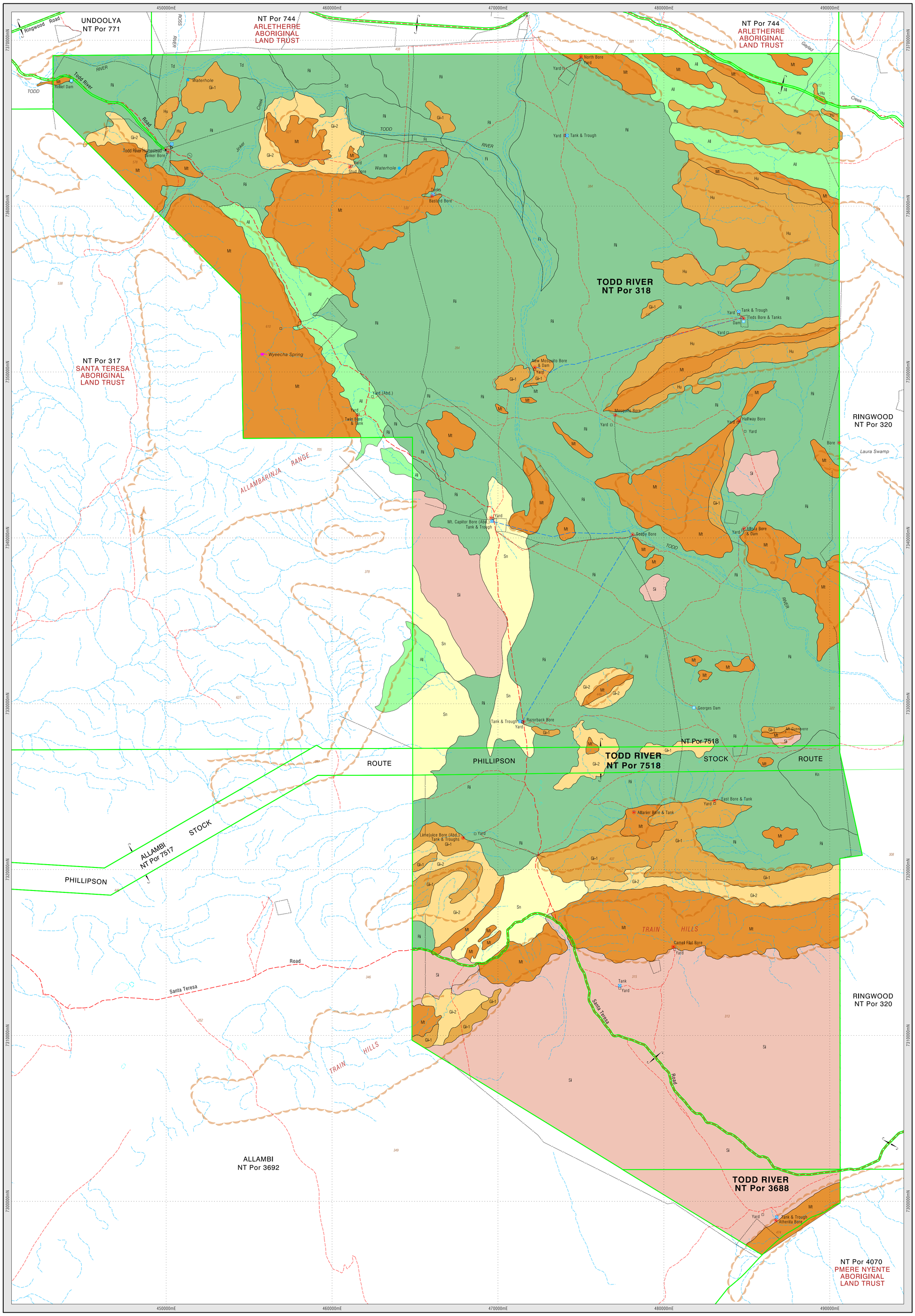

LAND SYSTEM DESCRIPTIONS

MOUNTAINS

Mountains — Mt

Rugged and generally inaccessible areas. Soil undescribed. Mulga, low shrubby cassias and eremophila species, such as Turkey Bush and Emu Bush over spinifex and other hard grasses.

HILLS

Gillen One — Gi-1

Low relief sandstone ranges, associated lower erosional slopes, and creeks. Shallow stony soils on the larger hills and steeper slopes. Mulga, Witchetty Bush and low shrubby cassias over spinifex, hard grasses, Woollybutt and Kerosene grasses and forbs. Creeks and watercourses have Mulga and Ironwood with palatable perennial grasses.

Huckitta — Hu

Limestone ranges, lower foothills and erosional slopes. Calcareous soils on lower slopes. Lower slopes; Witchetty Bush and Gidyea over Oat grass. Steeper rockier ranges; low sparse Witchetty Bush and Cassia Bush over spinifex, Kerosene, Woollyoat grasses and forbs. Small channels, creeks; Red Gum and Ironwood over palatable perennial grasses.

RISES

Gillen Two — Gi-2

Lower erosional slopes and creeks. Soil undescribed. Creeks and watercourses have Mulga and Ironwood with palatable perennial grasses.

ALLUVIAL PLAINS

Finke — Fi

Alluvial plains associated with the Finke River. Soils are coarse textured sands, lacking silt or clay fraction. Perennial grasses. Curly Windmill, Silky Browntop, Kangaroo and Oat Kangaroo grasses under River Red Gums and Coolibahs along the river. Palatable perennials. Curly Windmill, Umbrella and Oat grasses, Woollybutt, Kerosene grass and forbs including Copperburrs, Goatheads, Buckbush and Paddy Melons are on the sandy plains. Small alluvial basins have Cottonbush or Old Man Saltbush over perennial grasses. Oat grass and forbs.

Kanandra — Kn

Broad level plains and smaller areas of alluvial fans and creek floodouts. Mainly brown alluvial soils and loamy sands on the plains while coarse textured soils exist on alluvial fans and the floodouts have silty brown soils. Very open Ironwoods, Whitewoods, and Supplejack over Kerosene grass, Woollyoat and scattered Buffel and Curly Windmill grasses. A diversity of forbs present; particularly after winter rains. Alluvial fans and creek floodouts with sparse low trees over Kerosene grass, Woollybutt and forbs or Coolibah over Neverfail, Coopers Clover and perennial grasses.

Ringwood — Ri

Extensive alluvial sandy and occasionally calcareous plains. Sandy soils and calcareous soils. Sandier areas have a predominantly Ironwood woodland while the calcareous soils and watercourses carry Gidyea.

Todd — Td

Alluvial sandy plains associated with the Todd River. Sandy loam soils exist on extensive outer plains while the riverine deposits closer to the river are finer textured silty clays and sandy clay loams. Outer plains; Open Woodland of mainly Ironwoods and corkwoods over Oat and Woollyoat grasses and a mix of perennial grasses. Heavier soils can have Curly Windmill, Umbrella, Silky Browntop, Kangaroo and Queensland Blue grasses. Sandy soils have less perennial grasses with loamy sands having occasional Umbrella and Curly Windmill grass around tree bases. Alluvial basins and active flood plains close to the river can carry palatable perennial grasses, with Cottonbush.

PLAINS

Allua — Au

Valleys between limestone ranges north of Twin Bore. Soils are generally stony and often shallow. Sparse tree cover of Witchetty Bush and Whitewoods over Oat grass and scattered perennial grasses.

SAND PLAINS

Singleton — Sn

Sand plains. Soil undescribed. Kerosene, Woollybutt grasses and spinifex, and after rains some herbs, such as Parakeelya.

DUNE FIELDS

Simpson — Si

Sand dunes and widely spaced swales. Sands and loamy textured soils. Swales have some Oat grass however Kerosene grass is predominant.

Example of Land System Description

Allua — Au (Land system)

Valleys between limestone ranges north of Twin Bore. Soils are generally stony and often shallow. Sparse tree cover of Witchetty Bush and Whitewoods over Oat grass and scattered perennial grasses.

(Map unit; Landform description; Soil description; Vegetation description)

Bibliographic Reference:

Bastin, G., Shaw, K., Masterman, J (1979) *Range Condition assessment report: Todd River Station* Department of Primary Production, Alice Springs, Northern Territory

Please Note:

This report is generally not available. Access requests should be directed to Arid Zone Research Institute Library in Alice Springs. Email: azri.library@nt.gov.au

GENERAL FEATURES

Land Unit Boundary		Dam	Georges Dam
Property Boundary		Tank	Water Tank
Stock Route		Drainage	
Pastoral Homestead	Todd River	Spring	*Wyeecha Spring*
Minor Road: Unsealed		Swamp	*Laura Swamp*
Local Road / Track		Waterhole	*Waterhole*
Landing Ground		Relief Feature	*Mt. Guenevere*
Fence		Range	*TRAIN HILLS*
Stock Yard	Yard	Spot Height	412
Water Bore	Jinker Bore	Relief Ridge	

General features data sources:

Cadastre, roads, place names: Department of Infrastructure, Planning and Logistics, Northern Territory of Australia.
Pastoral Infrastructure and Springs: 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:

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Department of Environment, Parks and Water Security
Northern Territory of Australia.

Map Reference: Map_Todd-River-Stn_Land-Res_100k_m53
Drawing Number: **DEPWS 2020 097**
October 2020

MAP LOCALITY

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 unmapped variations and to confirm the mapping accuracy on the ground.

N

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

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

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NORTHERN TERRITORY GOVERNMENT

LAND RESOURCES of TODD RIVER STATION