WATER RESOURCES DEVELOPMENT MAP
STURT PLATEAU REGION

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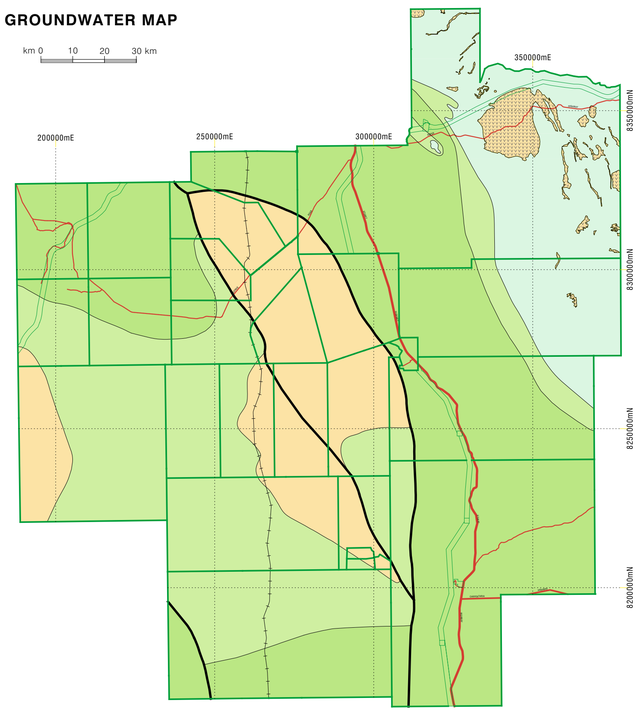
Northern Territory Government
Department of Infrastructure, Planning and Environment

STURT PLATEAU BEST PRACTICE GROUP INCORPORATED

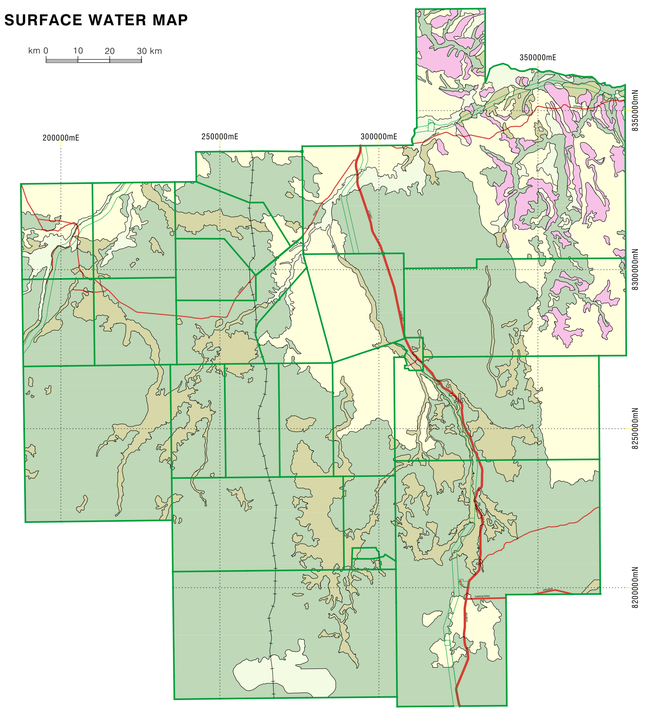
NATIONAL LANDCARE PROGRAM
A program of the Natural Heritage Trust

GROUNDWATER MAP



AREA	AQUIFER TYPE	ANTICIPATED YIELD	COMMENTS
	Limestone	> 5.0 L/s	High likelihood for success. Potential for crop irrigation quantities.
	Limestone	0.5 - 5.0 L/s	Moderate likelihood for success. Geophysics should be used to located deeper basement areas.
	Sandstone	0.5 - 5.0 L/s	Moderate likelihood for success. Aquifers mainly in weathered or fractured rock. Some higher yields near major fractured zones.
	Basalt	0 - 0.5 L/s	Poor likelihood for success. Small yields from weathered top of basalt and fractures. Geophysical techniques should be used to enhance prospects.
	Basalt, Dolerite, Siltstone, Shale, Greywacke	0 - 0.5 L/s	Poor likelihood for success. Better prospects where underlain by sandstone or fractured rocks. Geophysical techniques should be used to enhance prospects.

SURFACE WATER MAP



AREA	DESCRIPTION	COMMENTS
	Massive surface cracking clays of flood plain origin, shallow loam to sandy, red and yellow earths in elevated areas - gravelly where laterite has developed.	Surface water runoff moderate. Surface water developement usually feasible in areas where clayey soil is at least 2 metres thick. Not suitable in gravelly laterite areas.
	Shallow gravels, moderately deep sand and loam soils featured as gently undulating to almost level plains.	Surface water runoff moderate to low. Above ground water storage developments are feasible where subsoil is suitable. Variable suitability for excavations - clay content ranges from good to marginal. Economic viability may be marginal and should be examined.
	Variable soils, cracking clay to sandy and gravelly soils, coverageoften over shallow rock.	Surface water runoff moderate. Surface water developments are feasible where the base rock is rippable and the upper profile is clayey. Site work is recommended to determine presence of rock.
	Gravelly laterite surface developed on low hills or undulating country, often featured by intact ferricrete profile or shallow residual limestone.	Surface water runoff moderate. Surface water storage development usually not suitable due to intact ferricrete profile or shallow residual limestone.
	Hilly country with ridges. Rock outcrop and skeletal soil mostly on sandstone or shale.	Surface water runoff high. Surface water storage development not usually feasible due to the rugged terrain or poor water retention characteristics of the soil. Hillside storages may be possible at the base of escarpments and hills.

WATER RESOURCES DEVELOPMENT OPTIONS

AREA	PREFERRED OPTION	DESCRIPTION
1	Piping from natural waterholes where present.	Rugged hilly or rocky country, usually with difficult access. Poor groundwater development prospects. Surface water supply options economically and / or physically not suitable.
2	Surface water	Relict flood plains with clayey soil types. Generally suitable for excavated tanks and dams. Usually inadequate stock supplies from bores.
3	Groundwater	Hilly country or areas of shallow rock. Moderate to good prospects for obtaining stock water from groundwater sources. Limited for excavated tanks or dams due to either porous soils or shallow rock.
4	Surface water or groundwater	Areas of flood plain to gently undulating country with low hills. Moderate to good prospects for obtaining stock water from bores. Generally suitable for excavated tanks and dams, dependeing on subsoil conditions.

Geology modified from maps of the Northern Territory Geological Survey,
Department of Business, Industry and Resource Development,
Northern Territory, and the Australian Geological Survey Organisation,
Canberra, Australian Capital Territory.

Auslig Topo-250k data supplied through Land Information Services,
Department of Infrastructure, Planning and Environment, Darwin,
Northern Territory of Australia.

Minor revisions, corrections and updates to mapping have been made since the initial publication of this map (January 2002). This map takes account of data to January 2003.

Map compiled by D. Yin Foo and I.Matthews,
Project coordination by G. Humphreys,
Cartography by J. Fong, Spatial Data and Mapping Unit,
using Microstation graphic applications,

Design File: Sturt-Plateau_Development-Map-250k_m53
Print File: Sturt-Plateau_Water-Resources_250k

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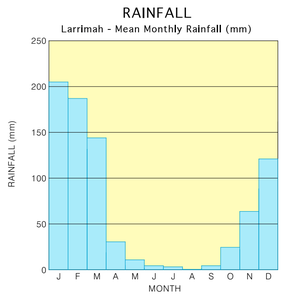
Conservation and Natural Resources Group,
Department of Infrastructure, Planning and Environment,
Northern Territory of Australia, May, 2001.

kilometres 0 5 10 15 20 25 30 35 kilometres

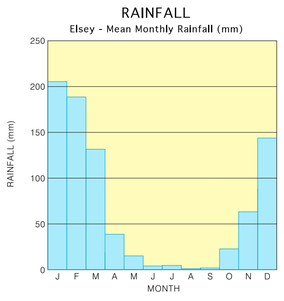
Transverse Mercator Projection, Map Grid of Australia (MGA) Zone 53
Horizontal Datum; Geocentric Datum of Australia (GDA) 1994
Vertical Datum; Australian Height Datum 1971

GDA Note:
This map was produced on the Geocentric Datum of Australia (GDA94)

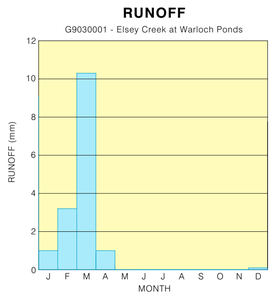
RAINFALL
Larrimah - Mean Monthly Rainfall (mm)



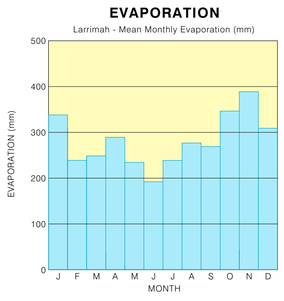
RAINFALL
Elsey - Mean Monthly Rainfall (mm)

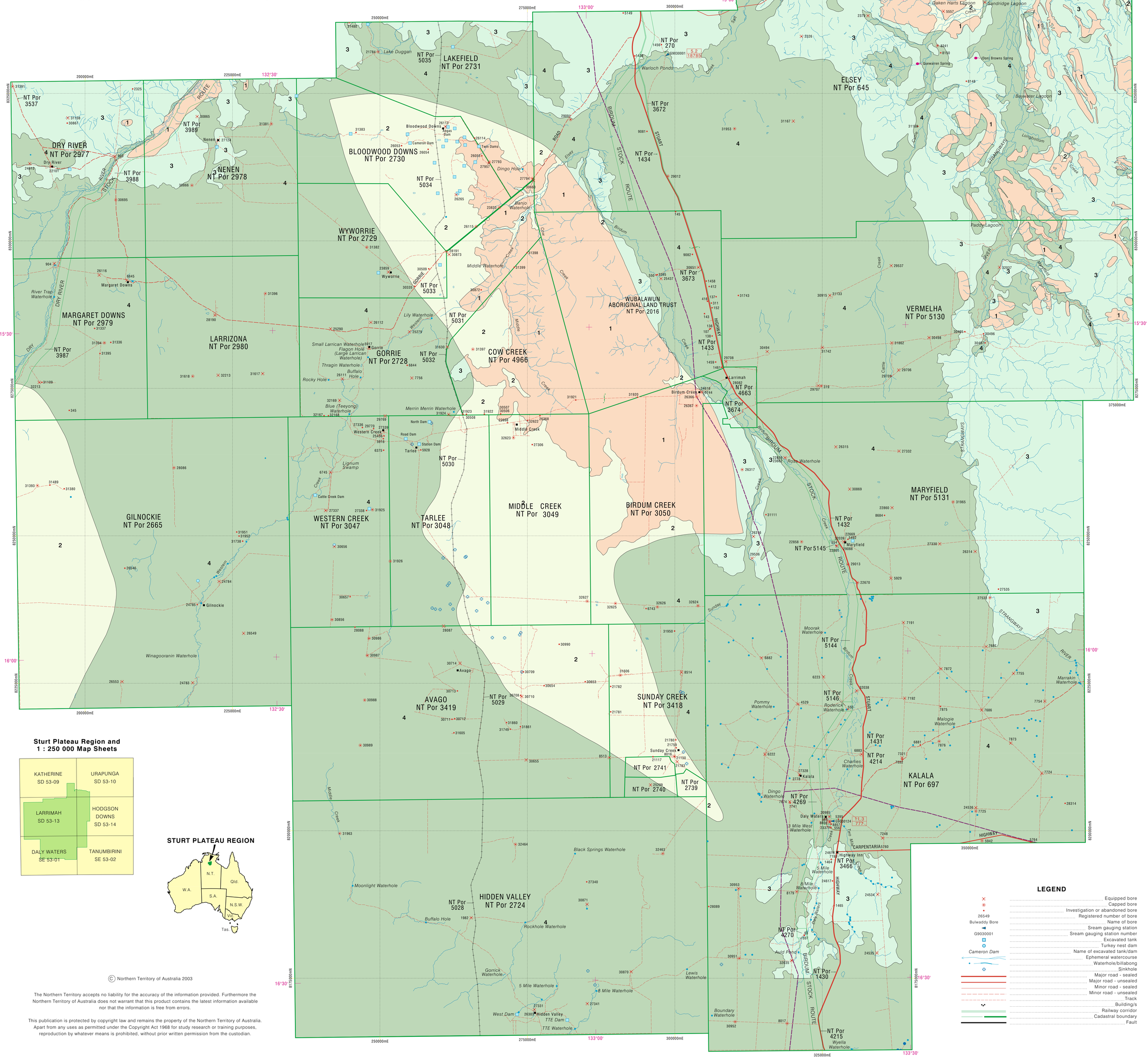


RUNOFF
G9030001 - Elsey Creek at Warloch Ponds



EVAPORATION
Larrimah - Mean Monthly Evaporation (mm)




ELSEY NT Por 645
LAKEFIELD NT Por 2731
BLOODWOOD DOWNS NT Por 2730
DRY RIVER NT Por 2977
NENEN NT Por 2978
WYWORRIE NT Por 2729
MARGARET DOWNS NT Por 2979
LARRIZONA NT Por 2980
GORRIE NT Por 2728
COW CREEK NT Por 4966
WUBALAWUN ABORIGINAL LAND TRUST NT Por 2016
VERMELHA NT Por 5130
GILNOCKIE NT Por 2665
WESTERN CREEK NT Por 3047
TARLEE NT Por 3048
MIDDLE CREEK NT Por 3049
BIRDUM CREEK NT Por 3050
MARYFIELD NT Por 5131
AVAGO NT Por 3419
SUNDAY CREEK NT Por 3418
KALALA NT Por 697
HIDDEN VALLEY NT Por 2724
NT Por 3537
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NT Por 4456
NT Por 1508
Elsey
Larrimah
Daly Waters
Maryfield
Kalala
Gilnockie
Avago
Sunday Creek
Hidden Valley
Birdum Creek
Western Creek
Tarlee
Middle Creek
Margaret Downs
Nenen
Wyworrie
Gorrie
Dry River
Warloch Ponds
Lake Duggan
Bloodwood Downs
Cameron Dam
Twin Dams
Dingo Hole
Banjo Waterhole
Middle Waterhole
Lily Waterhole
Small Larrican Waterhole
Flagon Hole (Large Larrican Waterhole)
Thragin Waterhole
Buffalo Hole
Rocky Hole
Blue (Teeyong) Waterhole
Merrin Merrin Waterhole
Lignum Swamp
Winagooranin Waterhole
River Trap Waterhole
Moonlight Waterhole
Black Springs Waterhole
Rockhole Waterhole
Gorrick Waterhole
5 Mile Waterhole
8 Mile Waterhole
West Dam
TTE Dam
TTE Waterhole
Lewis Waterhole
Moorak Waterhole
Pommy Waterhole
Roderick Waterhole
Dingo Waterhole
3 Mile West Waterhole
Charlies Waterhole
Malogie Waterhole
Marrakin Waterhole
Boundary Waterhole
Wyella Waterhole
Auld Pond
Ross Waterhole
Bulbul Waterhole
Goose Lagoon
Red Lily Lagoon
Little Red Lily Lagoon
Crescent Lagoon
Daken Harts Lagoon
Sandridge Lagoon
Baywater Lagoon
Paddy Lagoon
Quewarren Spring
(Don) Browns Spring
Longbottom
Highway Inn
CARPENTARIA
Chambers River
Roper River
Stuart Highway
Birdum Stock Route
Strangways
Daly River
Dry River
Stock Route
Birdum Creek
Sunday Creek
Middle Creek
Western Creek
Elsey Creek
Cattle Creek
Lily Creek
Cave Creek
Salt Creek
Tea Tree Creek
Parkinson Creek
Marrakai Creek
Fergusson River
Moyle River
Wickham River
Gorrie Road
Tarlee Road
Cattle Creek Dam
North Dam
Road Dam
Station Dam
Hidden Valley
TTE Dam
TTE Waterhole
Maryfield
Sunday Creek
Elsey
Larrimah
Daly Waters
Kalala
Avago
Gilnockie
Margaret Downs
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