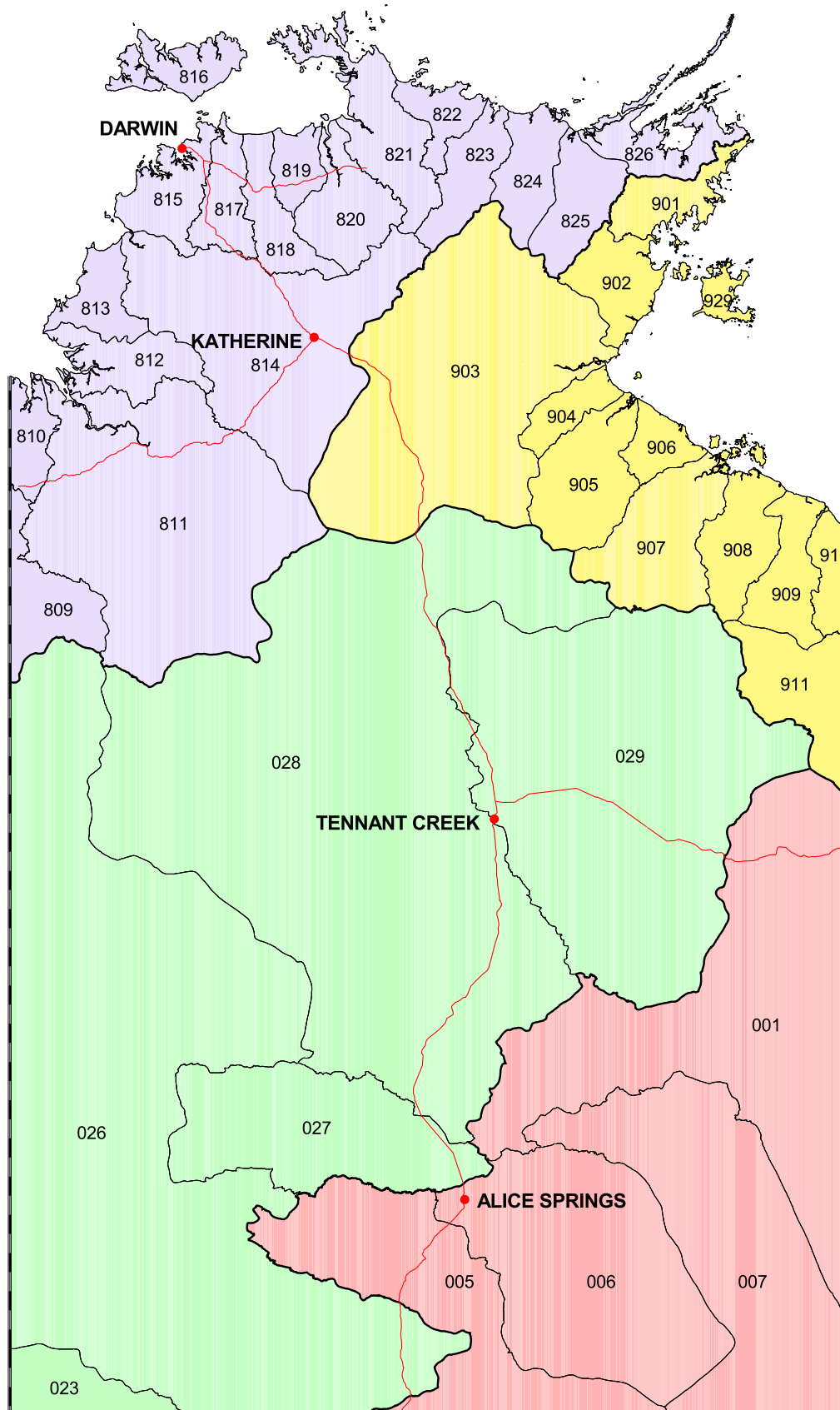




CATCHMENT OVERVIEW MAP SERIES

**This document displays the following map series for the
Roper River Catchment.**

- Map 1 NT Drainage Divisions and Basins as
 defined by the Australian Water
 Resources Council**
- Map 2 Locality Plan**
- Map 3 Landform**
- Map 4 Vegetation and Important Wetlands**
- Map 5 Land Tenure and Land Use**
- Map 6 Major Sub-catchments**
- Map 7 Sub-sections**
- Map 8 Stream Orders**
- Map 9 Location of Sites**



DRAINAGE DIVISIONS



LAKE EYRE

- 001 Georgina River
- 005 Finke River
- 006 Todd River
- 007 Hay River



WESTERN PLATEAU

- 023 Warburton
- 026 Mackay
- 027 Burt
- 028 Wiso
- 029 Barkly



TIMOR SEA

- 809 Ord River
- 810 Keep River
- * 811 Victoria River
- 812 Fitzmaurice River
- 813 Moyle River
- * 814 Daly River
- 815 Finniss River
- 816 Bathurst & Melville Islands
- 817 Adelaide River
- 818 Mary River
- 819 Wildman River
- 820 South Alligator River
- 821 East Alligator River
- 822 Goomadeer River
- 823 Liverpool River
- 824 Blyth River
- 825 Goyder River
- 826 Buckingham River



GULF OF CARPENTARIA

- 901 Koolatong River
- 902 Walker River
- ▲ 903 Roper River
- 904 Towns River
- 905 Limmen Bight River
- 906 Rosie River
- 907 McArthur River
- 908 Robinson River
- 909 Calvert River
- 910 Settlement River
- 911 Nicholson River
- 929 Grooyte Eylandt

— Division Boundary

— Basin Boundary



0 50 100 150 200
Kilometres

▲ Baseline data collected for Top End Waterways Project - Mark 2 (1998 - 1999)

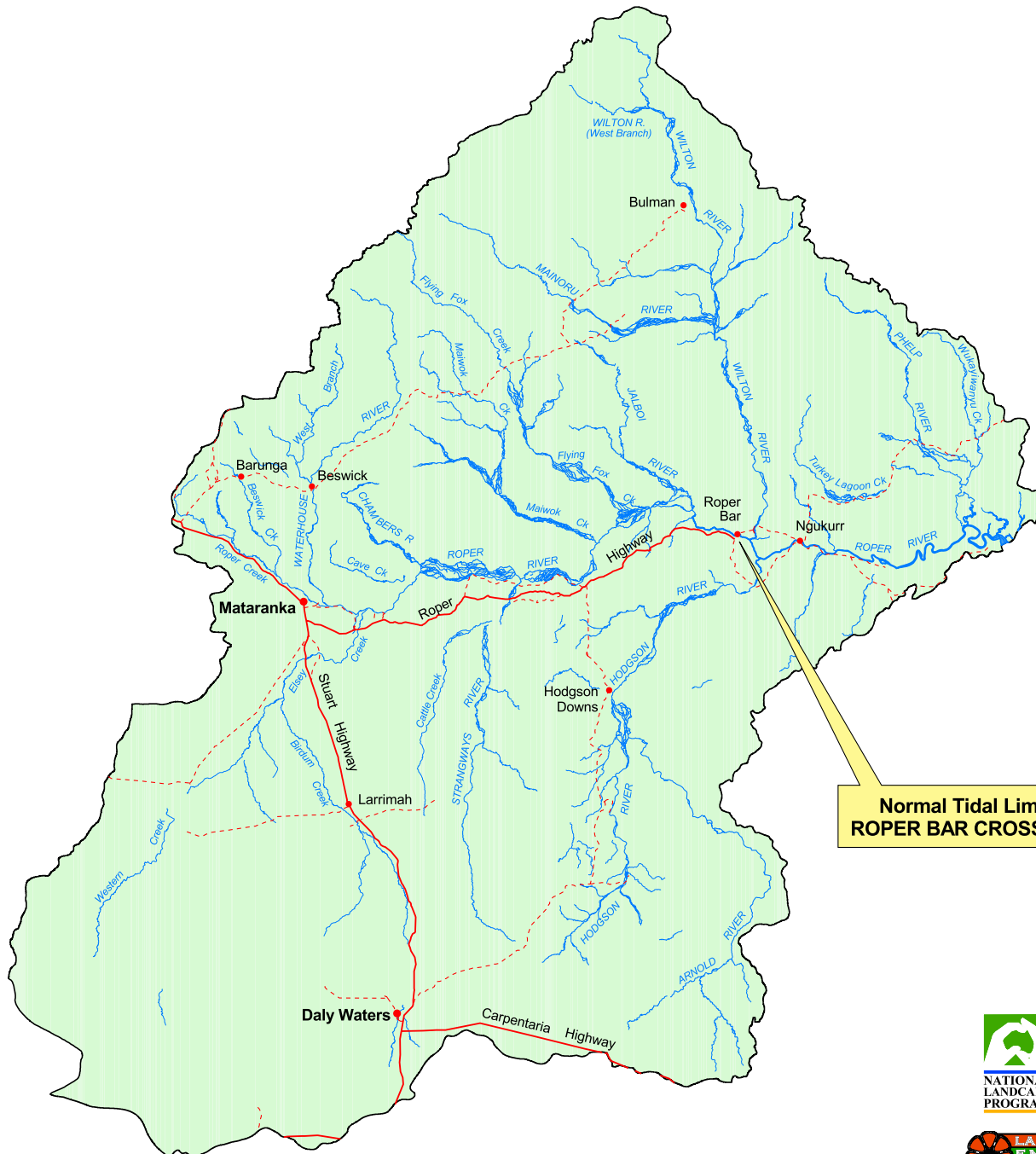
* Baseline data collected for Top End Waterways Project (1995 - 1997)



TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

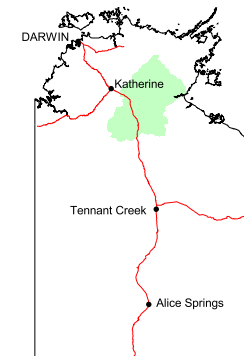
NT DRAINAGE DIVISIONS AND BASINS

as defined by the Australian Water Resources Council

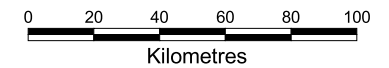


LEGEND

- Catchment Boundary
- Major Road
- - - Minor Road
- River
- Creek
- Town / Community



CATCHMENT LOCATION



Normal Tidal Limit
ROPER BAR CROSSING



TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

LOCALITY PLAN

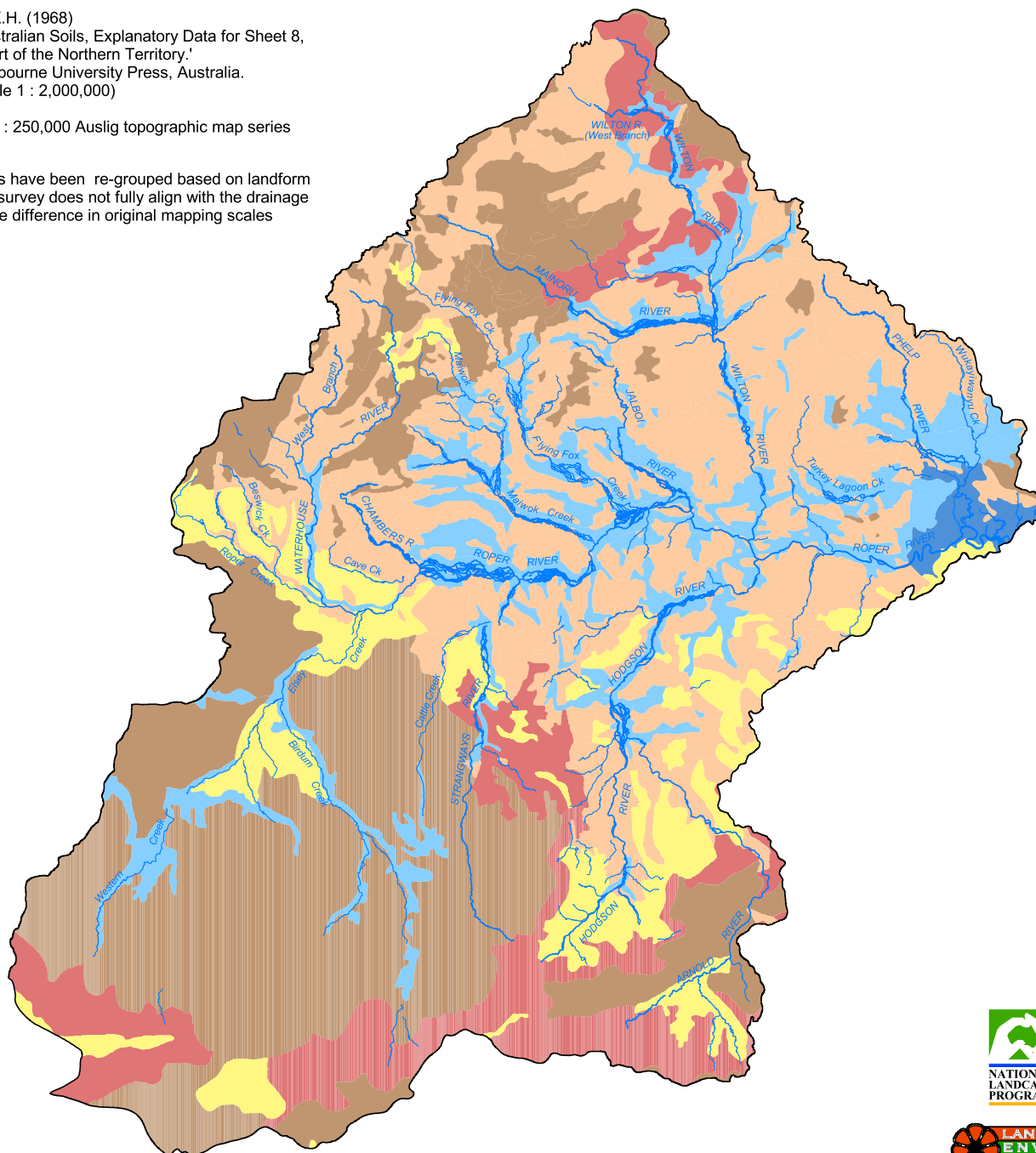
SOURCE

Northcote, K.H. (1968)
'Atlas of Australian Soils, Explanatory Data for Sheet 8,
Northern Part of the Northern Territory.'
CSIRO, Melbourne University Press, Australia.
(Survey Scale 1 : 2,000,000)

Drainage: 1 : 250,000 Auslig topographic map series

NOTE

1. Map units have been re-grouped based on landform
2. The soil survey does not fully align with the drainage due to the difference in original mapping scales

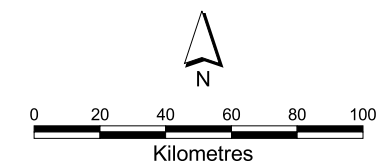


LANDFORM DESCRIPTION

- Plateau surfaces including mesas and buttes. (Map units AB33, AC13, BY1, JV1, JV3, MY2, My79)
- Plateau escarpments, including adjacent rises and associated drainage. (Map units AC14, BY2, BY3, SQ1)
- Ridges, cuestas and associated gorges of the dissected plateau and low to steep hills. (Map units BA7, BA8, BA9, BA14, Cd24, JJ28, JJ31, JJ32, JJ33, JJ34, LK23, Mo24, Mo25, Mo28, My75, My76, OO4)
- Level plains and gently undulating to undulating plains and rises, including associated minor drainage. (Map units AC17, AC18, Cd23, II6, MJ1, Mo26, Ms15, Mt5, My72, My74, My78)
- Major rivers and creeks; their levees, channels, floodplains, backplains and associated billabongs. (Map units CC57, II8, Mb15, Mb16, Mt6, OO2)
- Salt pans and tidal flats inundated by seasonal high tides. (Map unit Io1)

LEGEND

- Catchment Boundary
- River
- Creek



LANDFORM (Broad scale mapping)

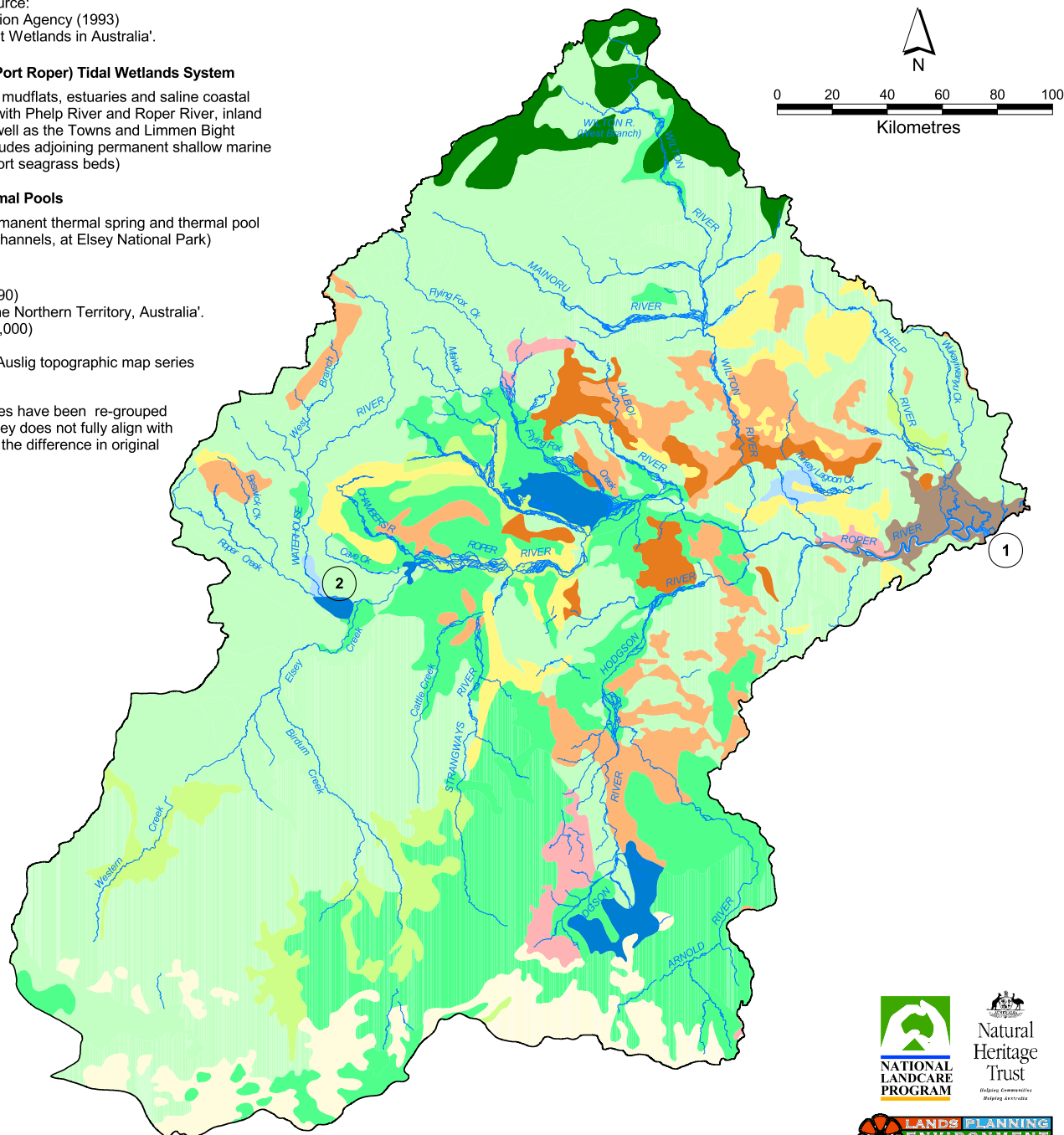
Important Wetlands Source:
 Aust. Nature Conservation Agency (1993)
 'A Directory of Important Wetlands in Australia'.

- 1 **Limmen Bight (Port Roper) Tidal Wetlands System**
 (includes all tidal mudflats, estuaries and saline coastal flats associated with Phelp River and Roper River, inland to Mt Roper, as well as the Towns and Limmen Bight Rivers. Also includes adjoining permanent shallow marine waters that support seagrass beds)
- 2 **Mataranka Thermal Pools**
 (includes the permanent thermal spring and thermal pool and connecting channels, at Elsey National Park)

SOURCE:
 Wilson, B.A. *et al.* (1990)
 'Vegetation Survey of the Northern Territory, Australia'.
 (Survey Scale 1 : 1,000,000)

Drainage: 1 : 250,000 Auslig topographic map series

- NOTE
1. Vegetation categories have been re-grouped
 2. The vegetation survey does not fully align with the drainage due to the difference in original mapping scales



VEGETATION DESCRIPTION

- EUCALYPT WITH GRASS UNDERSTOREY**
- Open - Forest**
E. miniata, *E. tetradonta* with *Sorghum* grassland understorey
- Woodland**
E. bleeseri, *E. dichromophloia*, *E. ferruginea*, *E. latifolia*, *E. miniata*, *E. papuana*, *E. patellaris*, *E. polycarpa*, *E. tectifera*, *E. tetradonta*, *E. terminalis*, *Callitris intratropica*
 Grassland understorey
Chrysopogon fallax, *Plectrachne pungens*, *Sehima nervosum*, *Sorghum*
- Low Woodland**
E. chlorophylla, *E. dichromophloia*, *E. microtheca*, *E. pruinosa*, *E. terminalis*, *E. tintinnans*, *Excoecaria parvifolia*
 Grassland understorey
Chrysopogon fallax, *Dichanthium*, *Plectrachne pungens*, *Sehima nervosum*, *Sorghum*
- Low Open - Woodland**
E. microtheca with *Astrelba*, *Eulalia aurea*, *Dichanthium* grassland understorey
- EUCALYPT WITH HUMMOCK GRASS UNDERSTOREY**
- Low Woodland**
E. phoenicia with *Plectrachne pungens* hummock grassland understorey
- Low - Open Woodland**
E. dichromophloia, *E. leucophloia*, *E. miniata*, *E. tetradonta* with *Plectrachne pungens* hummock grassland understorey
- MELALEUCA WITH GRASS UNDERSTOREY**
- Low Woodland**
Melaleuca citrolens with *Chrysopogon fallax* open-grassland understorey
- Low Open Woodland**
Melaleuca viridiflora, *Eucalyptus* with *Chrysopogon fallax* grassland understorey
- ACACIA WITH GRASS UNDERSTOREY**
- Open Forest**
A. shirleyi (Lancewood) with open-grassland understorey
- Low Woodland / Low Open Woodland**
A. shirleyi (Lancewood) low woodland mixed with *Eucalyptus* low open-woodland
- GRASSLAND**
Chrysopogon fallax, *Dichanthium fecundum* grassland
- LITTORAL**
 Saline tidal flats with scattered chenopod low scrubland (Samphire) including areas of mangrove vegetation

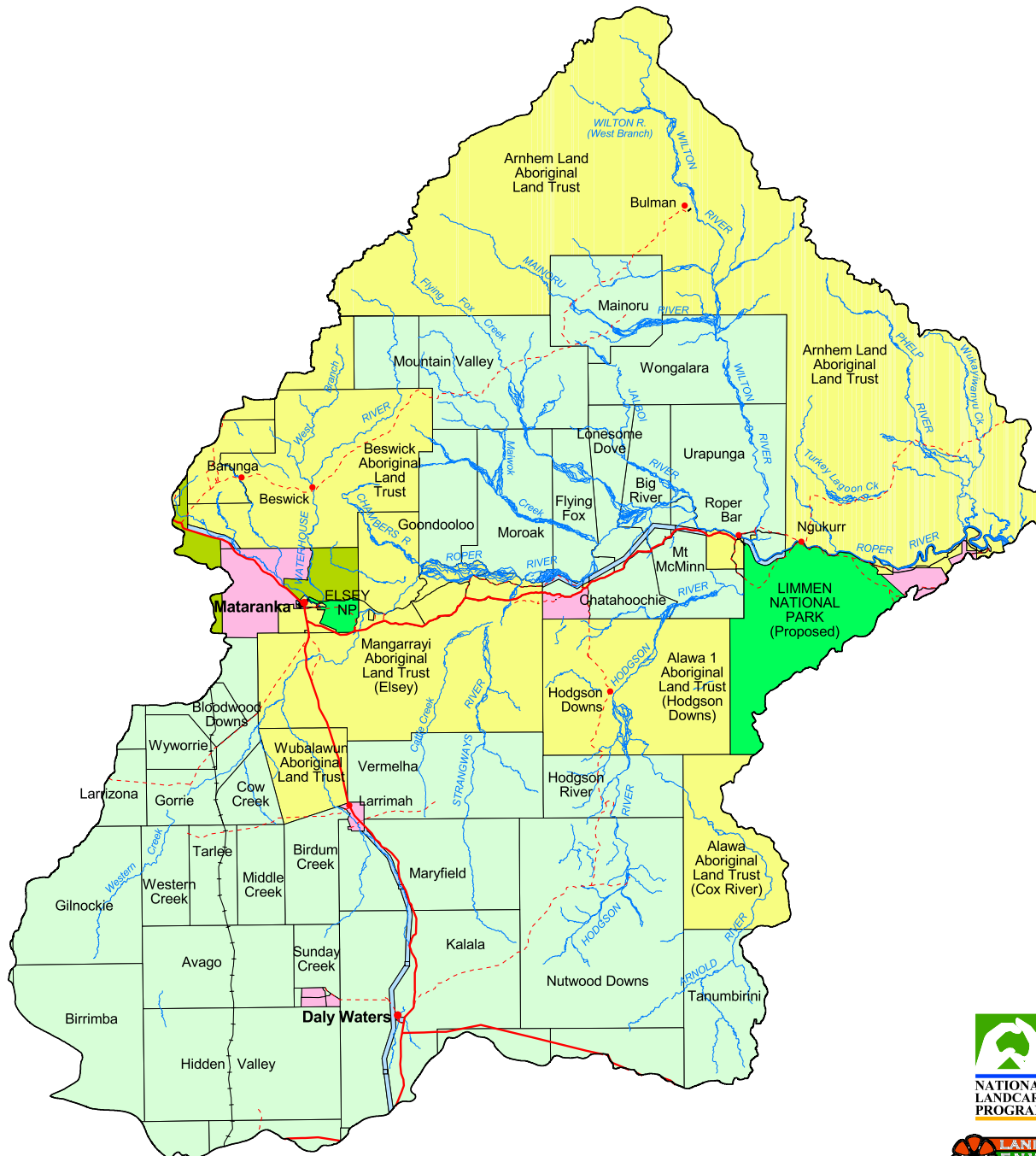


TOP END WATERWAYS PROJECT
 ROPER RIVER CATCHMENT

VEGETATION AND IMPORTANT WETLANDS

(Broad scale mapping)

Map 4



LAND CLASSIFICATION

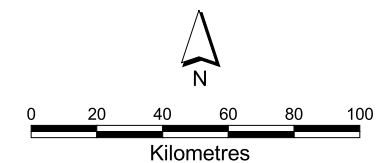
- National Park or Reserve
- Pastoral Lease
- Vacant Crown Land / Government Use
- Private Freehold
- Crown Lease Term
- Crown Lease Perpetual

LEGEND

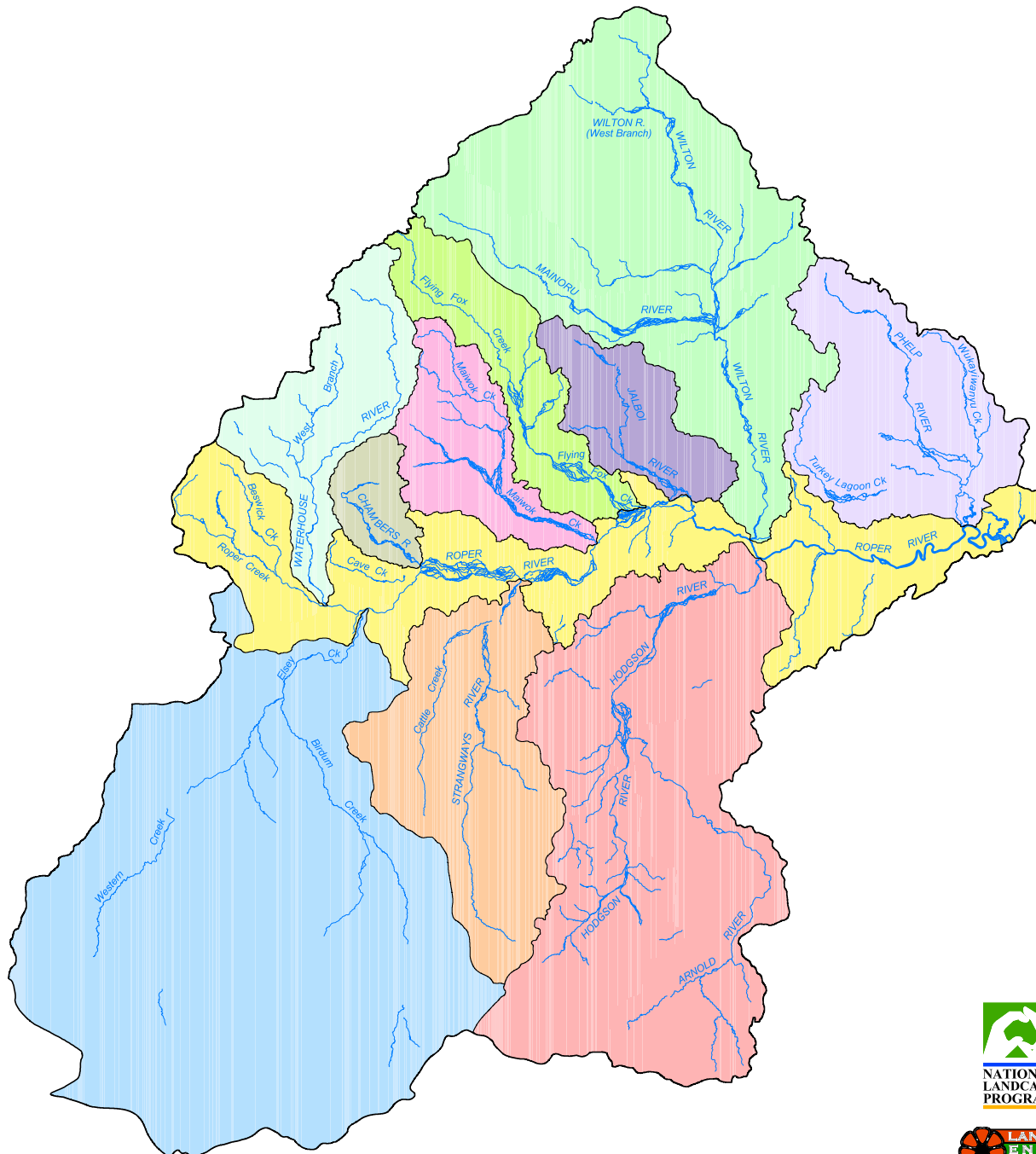
- Catchment Boundary
- Major Road
- Minor Road
- River
- Creek
- Railway (under construction)

NOTE

In general, where waterways form property boundaries the bed and banks of the waterway separating such properties is classified as Crown land. Where a waterway lies within a property the bed and banks of the waterway belong to the property owners but the water rights over such waterways belong to the Crown.



LAND TENURE AND LAND USE

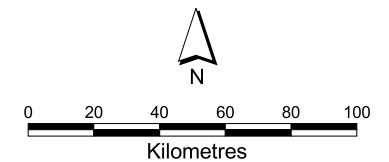


MAJOR SUB-CATCHMENTS

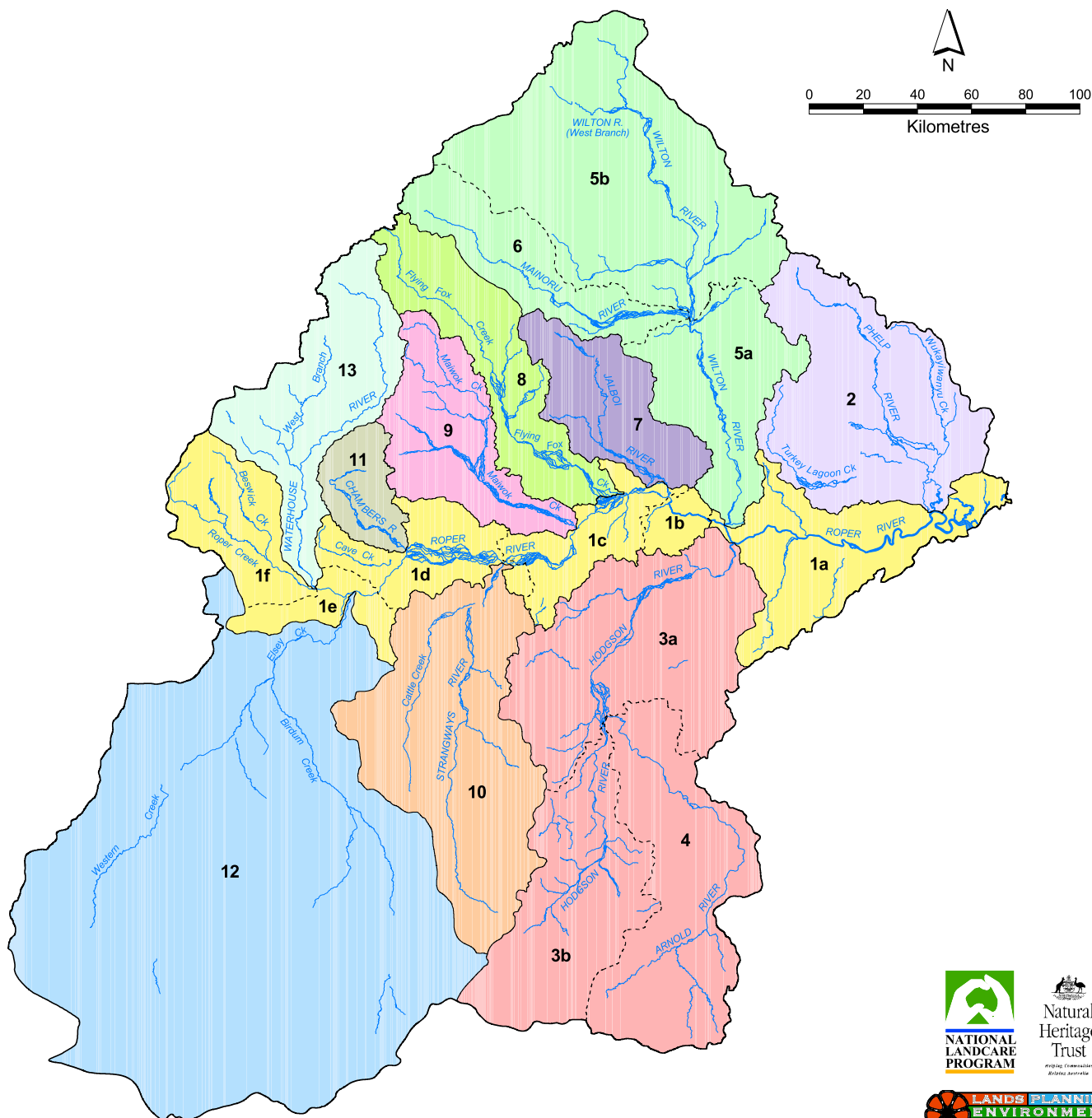
- Roper River
- Phelps River
- Hodgson River
- Wilton River
- Jalboi River
- Flying Fox Creek
- Maiwok Creek
- Strangways River
- Chambers River
- Elsey Creek
- Waterhouse River

LEGEND

- Catchment Boundary
- Sub-catchment Boundary
- River
- Creek



MAJOR SUB-CATCHMENTS



SUB SECTION NUMBER	AREA (km ²)	SUB SECTION NAME
1	9,556	Roper River
		a. Estuary
		b. Below Jalboi River
		c. Below 57-Mile Waterhole
		d. Red Lily Lagoon, 57-Mile Waterhole
		e. Below Waterhouse River
		f. Upper Roper Creek
2	5,305	Phelp River
3	9,290	Hodgson River
		a. Below Arnold River
		b. Above Arnold River
4	4,819	Arnold River
5	10,423	Wilton River
		a. Below Mainoru River
		b. Above Mainoru River
6	2,271	Mainoru River
7	2,271	Jalboi River
8	3,037	Flying Fox Creek
9	2,770	Maiwok Creek
10	6,142	Strangways River
11	1,051	Chambers River
12	21,210	Elsey Creek
13	3,649	Waterhouse River

TOTAL 81,794 ROPER RIVER CATCHMENT

LEGEND

- 5a** Sub-section Number
- Catchment Boundary
- Sub-catchment Boundary
- Sub-section Boundary
- River
- Creek

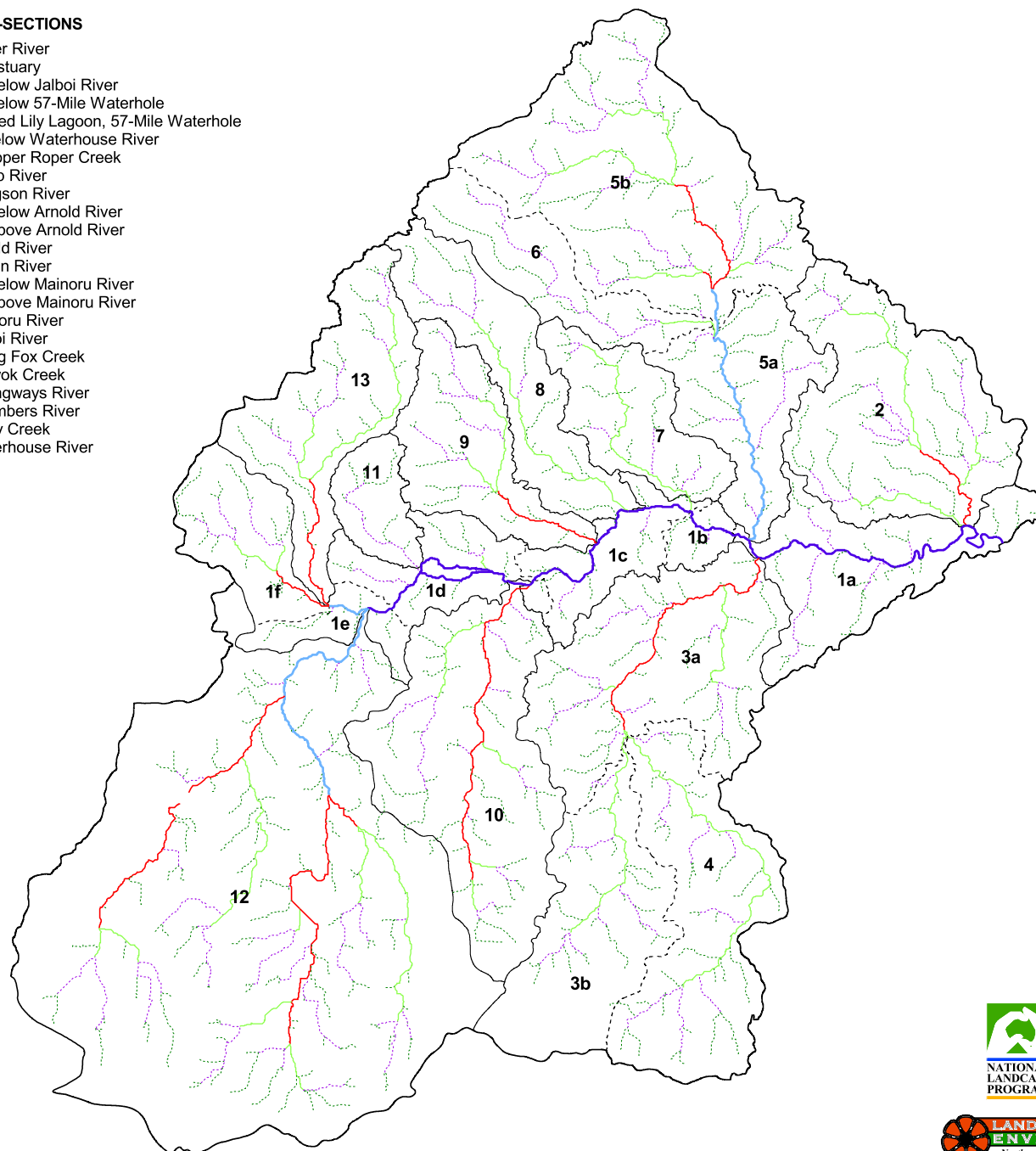


TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

SUB-SECTIONS

SUB-SECTIONS

1. Roper River
 - a. Estuary
 - b. Below Jalboi River
 - c. Below 57-Mile Waterhole
 - d. Red Lily Lagoon, 57-Mile Waterhole
 - e. Below Waterhouse River
 - f. Upper Roper Creek
2. Phelps River
3. Hodgson River
 - a. Below Arnold River
 - b. Above Arnold River
4. Arnold River
5. Wilton River
 - a. Below Mainoru River
 - b. Above Mainoru River
6. Mainoru River
7. Jalboi River
8. Flying Fox Creek
9. Maiwok Creek
10. Strangways River
11. Chambers River
12. Elsey Creek
13. Waterhouse River



Stream Order	Stream Length (kms - approx)	No of sites
1	4,854	13
2	2,308	7
3	1,469	24
4	754	14
5	233	11
6	367	24

LEGEND

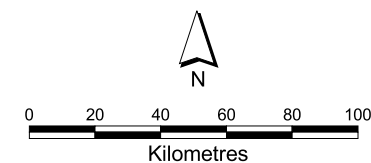
5a	Sub-section Number
—————	Catchment Boundary
—————	Sub-catchment Boundary
- - - - -	Sub-section Boundary

NOTE

Stream orders were compiled using ArcGrid. The stream network was generated using a Digital Elevation Model (DEM) and was based on a 1:250,000 map scale.

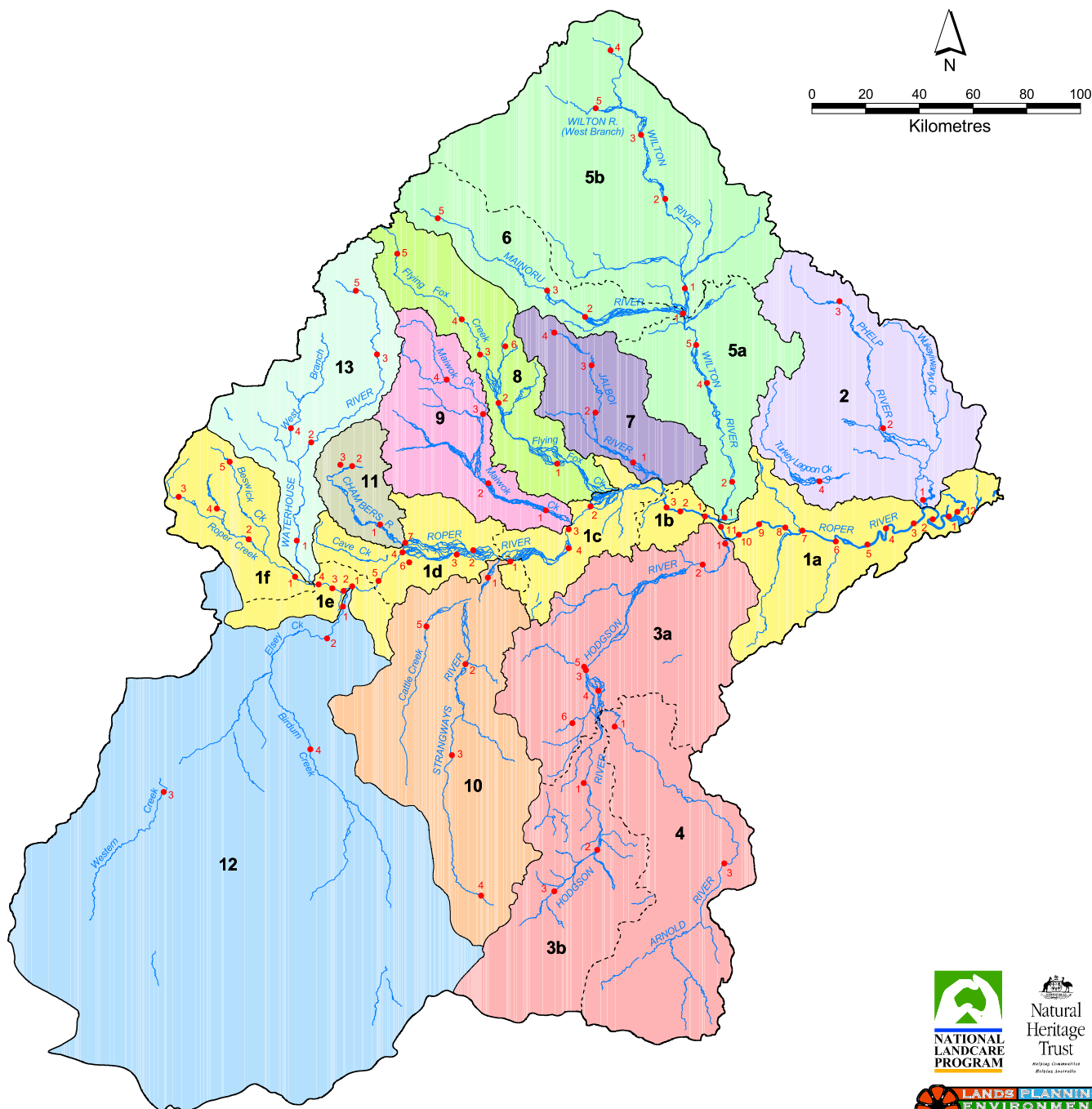
Stream orders have been assigned to rivers and creeks using the Strahler system. Six stream orders were recorded for Roper River Catchment.

- Minor streams = stream orders 1 and 2.
- Medium - sized streams = stream orders 3 and 4.
- Major streams = stream orders 5 and 6.



TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

STREAM ORDERS



SUB SECTION NUMBER	SUB SECTION NAME
1	Roper River
	a. Estuary
	b. Below Jalboi River
	c. Below 57-Mile Waterhole
	d. Red Lily Lagoon, 57-Mile Waterhole
	e. Below Waterhouse River
	f. Upper Roper Creek
2	Phelp River
3	Hodgson River
	a. Below Arnold River
	b. Above Arnold River
4	Arnold River
5	Wilton River
	a. Below Mainoru River
	b. Above Mainoru River
6	Mainoru River
7	Jalboi River
8	Flying Fox Creek
9	Maiwok Creek
10	Strangways River
11	Chambers River
12	Elsey Creek
13	Waterhouse River

LEGEND

- Site Location
- 5a Sub-section Number
- Catchment Boundary
- Sub-catchment Boundary
- - - Sub-section Boundary
- River
- Creek



TOP END WATERWAYS PROJECT
ROPER RIVER CATCHMENT

LOCATION OF SITES



HANDY HINTS USING ADOBE ACROBAT READER

An update of this free software is available to download from the web. Click on this address to visit the web site : <http://www.adobe.com/products/acrobat/readermain.html>

1. SETTING UP YOUR PAGE IN ADOBE ACROBAT

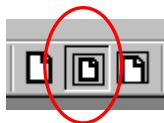
Pull down menu *FILE* and select *PREFERENCES*
Now select *GENERAL*
Change the *page units* to "millimetres"
Change the *magnification default zoom* to "Fit in Window"

*You will notice the actual page size for each pdf page is noted in millimetres at the bottom of the view.
Each page number is also noted as you scroll through the document.*

2. HANDY FUNCTIONS TO USE



BOOKMARKS *have been created to help you locate information in this document. Click on this tool to view the bookmarks.*



FIT IN VIEW *Select this tool to view the entire page.*



ZOOM IN *Drag and click a rectangle to enlarge a selected area.*



PANNING *This tool allows you to move around the viewing screen. Select the tool and drag the hand icon to scroll around the screen.*



SEARCH *The left binoculars can search and locate a specific word or phrase in the current page. The right binoculars will search the entire document. (control G to find the next location)*

3. HOW TO PRINT THIS PDF DOCUMENT

These maps were designed to be printed on an A4 colour printer.
For best results when printing, select the highest resolution possible.

1. Select Print icon
2. Select printer required.
3. "FIT TO PAGE" must NOT be ticked
4. Select which pages you wish to print (see *page no – bottom of the screen*)
5. Select *PROPERTIES* tab
6. Select A4 portrait or landscape to suit the page
7. Change the resolution to suit
8. Press OK
9. Press OK to print

