

SANDY - sandy soil: NOT on RHS - Not used for analysis

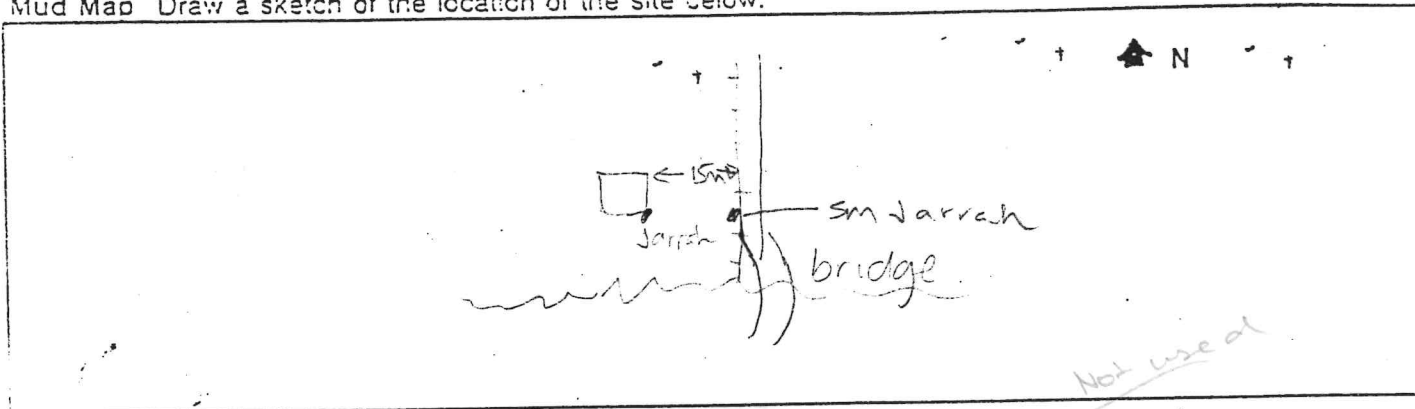
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA NORMAN RD SITE NUMBER NORM 01
DATE TRIP 1/11/95 RECORDERS BJK, NCT, TS
DATE TRIP _____ RECORDERS _____
DATE TRIP _____ RECORDERS _____
BOTANIST _____

From 'Bushland Plant Survey' written by
B. Keighery (1994) and published by the
Wildflower Society of WA (Inc.), PO Box
Nedlands WA 6008.

1. LOCATION of the QUADRAT

Mud Map Draw a sketch of the location of the site below.

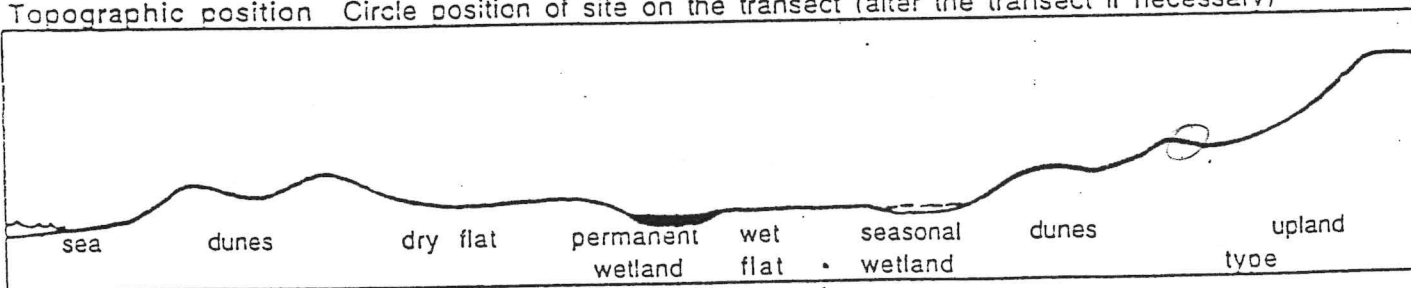


Road Location Albany Hwy

Geographic Location Latitude 32° 16' 18.9" S Longitude 116° 00' 25" E Altitude
Reference Map

Photograph _____ Photographer's Name TS Photo No 14

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope flat gentle steep Aspect N NE E SE S SW W NW

Surface Soil sand Colour brown
Exposed rock type _____ % surface _____

Sub-surface Soil sand Colour orange
Rock type _____ depth to rock _____

Drainage wet mod poor depth water cm Wet all year winter/spring

Litter 30-70 % cover _____ Bare Ground zero % cover _____
Depth 1 cm

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

3. VEGETATION STRUCTURE AND COVER

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA Inc., PO Box 64 Nedlands WA 6008.

For each layer record - appropriate life form, cover class (see below), and dominant species in each layer.

Cover Class 2-10% 10-30% 30-70% over 70%

TREES				MALLEES	
	over 30m	15-30m	5-15m under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)			30-70		
DOMINANT SPECIES			E. marginata ssp. elegantella		
SHRUBS				SHRUBS	
	over 2m	2m-1.5m	1.5-1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)				30-70	
DOMINANT SPECIES					Grey wattle mel. birch Dry land
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		2-10			30-70
DOMINANT SPECIES		Trachypogon pilosa Wandzia paniculata			Mesom. pseudo Schoenus nigrus

4. VEGETATION CONDITION

1 'PRISTINE'		COMMENTS alot of kangeroos alot of seedlings, incl. jarrah
2 EXCELLENT		
3 VERY GOOD		
4 GOOD		
5 DEGRADED		

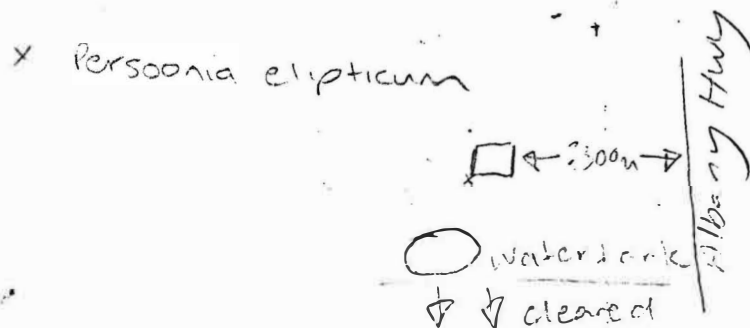
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

HLAND AREA NORMAN RD SITE NUMBER NORM 02
 E TRIP 1-11-95 RECORDERS BJK, NG, TS
 E TRIP _____ RECORDERS _____
 E TRIP _____ RECORDERS _____
 TANIST _____

LOCATION of the QUADRAT

From 'Bushland Plant Survey' written by
 B. Keighery (1994) and published by the
 Wildflower Society of WA (Inc.), PO Box
 2 Nedlands WA 6008.

1 Map Draw a sketch of the location of the site below.



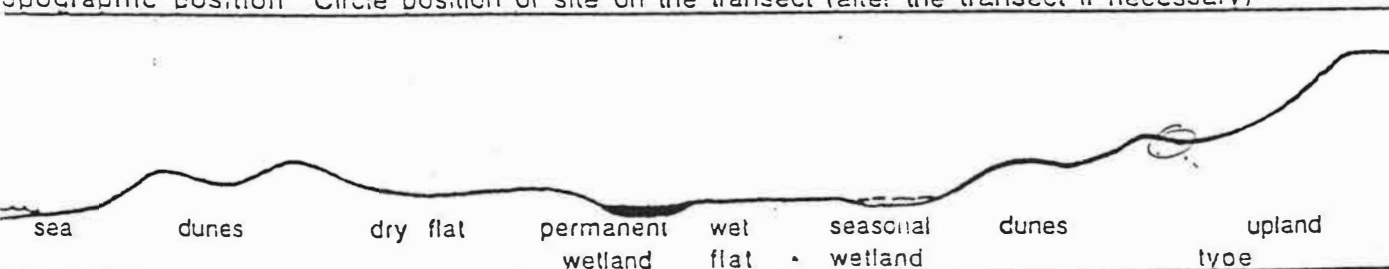
oad Location Albany Hwy / Norman Rd

Geographic Location Latitude 32°16'20" S Longitude 116°00'41" E Altitude 90m (AM)

Reference Map E.P.E. = 71m

Photograph Photographer's Name TS Photo No 15

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope flat gentle steep Aspect N NE E SE S SW (W) NW

Surface Soil type clayey sand Colour dark brown

Exposed rock type laterite nodules % surface < 2

Sub-surface Soil type clayey sand Colour yellow/orange

Rock type _____ depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

Litter 10-30 % cover Bare Ground < 2 % cover

Depth up to 1 cm

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA Inc., PO Box 64 Nedlands WA 6008.

3. VEGETATION STRUCTURE AND COVER

For each layer record - appropriate life form, cover class (see below), and dominant species in each layer.

Cover Class 2-10% 10-30% 30-70% over 70%

TREES				MALLEES	
	over 30m	15-30m	5-15m under 5m	over 8m	under 9m
LIFE FORM					
COVER CLASS (%)			10 → 30		
DOMINANT SPECIES			<i>E. margin ssp elegantella</i>		
SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			10 → 30		10 → 30
DOMINANT SPECIES			<i>Xanth. acanth.</i> <i>Hakea stenocarpa</i>		<i>Grey. wilsonii</i> <i>Dryandra ssp</i> <i>Grey. bipinnat</i> <i>Dryandra ssp.</i>
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					30-70
DOMINANT SPECIES					<i>Lepid ang</i> <i>Tetr. oct.</i> <i>Tetr. aust.</i>

4. VEGETATION CONDITION

1 'PRISTINE'		COMMENTS Jarrah seedlings alot of kangaroos virtually no weeds
2 EXCELLENT		
3 VERY GOOD		
4 GOOD		
5 DEGRADED		

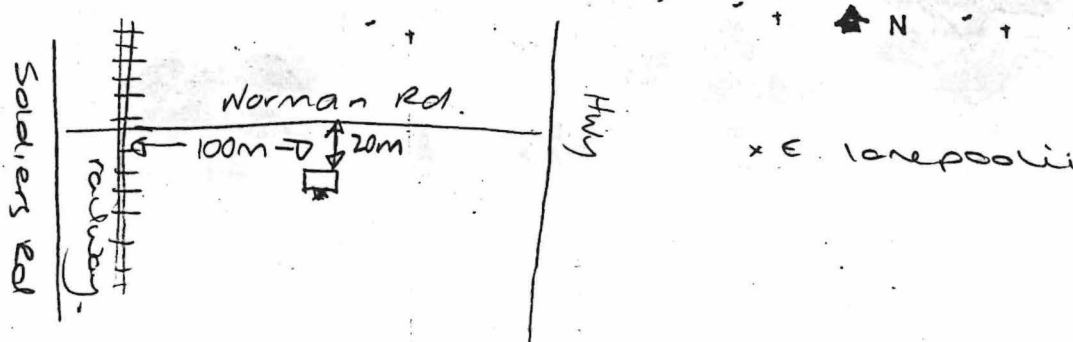
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

USHLAND AREA NORMAN ROAD SITE NUMBER NORM 04
 ATE TRIP 9-11-95 RECORDERS BSK, NGT, TS, JE
 ATE TRIP _____ RECORDERS _____
 ATE TRIP _____ RECORDERS _____
 OTANIST _____

LOCATION of the QUADRAT

Map Draw a sketch of the location of the site below.

From 'Bushland Plant Survey' written by
 B. Keighery (1994) and published by the
 Wildflower Society of WA (Inc.), PO Box
 52 Nedlands WA 6008.



Road Location NORMAN RD

32 15 57

115 59 41

Geographic Location Latitude 32° 15' 57" S Longitude 115° 59' 41" E Altitude

Reference Map

EPE ± 44m

± 50m

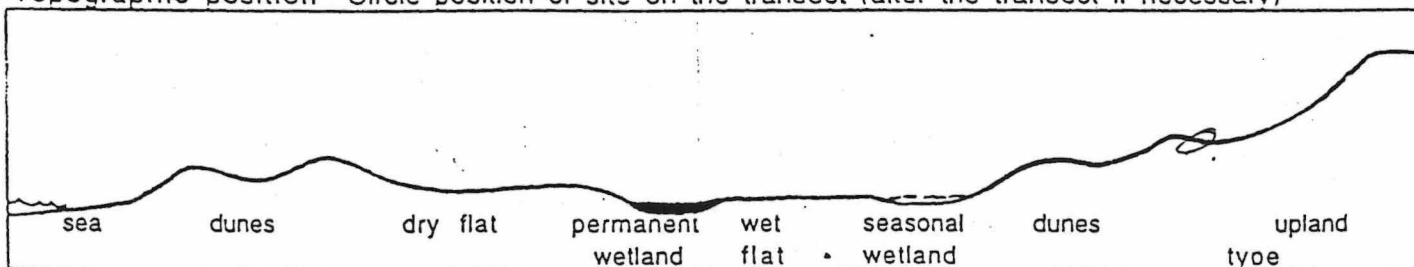
Photograph

Photographer's Name

JE

Photo No 12

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope flat gentle steep Aspect N NE E SE S SW W NW

Surface Soil Sandy loam Colour

Exposed rock type quartz + laterite stones % surface 2-10

Sub-surface Soil Colour yellow

Rock type laterite depth to rock 15 cm

Drainage well mod poor depth water cm Wet all year winter/spring

Litter 30-70 % cover

Depth up to 1 cm

Bare Ground < 2 % cover

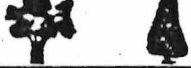
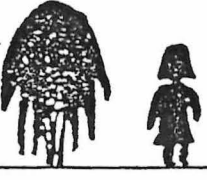
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

3. VEGETATION STRUCTURE AND COVER

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA Inc., PO Box 64 Nedlands WA 6008.

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.

Cover Class 2-10% 10-30% 30-70% over 70%

		TREES			MALLEES	
		over 30m	15-30m	5-15m under 5m	over 9m	under 9m
LIFE FORM						
COVER CLASS (%)			30-70			
DOMINANT SPECIES			<i>E. lanepodii</i> <i>E. marg. ssp. elegantella</i>			
		SHRUBS			SHRUBS	
		over 2m	2m-1.5m	1.5-1m	1-0.5m	under 0.5m
LIFE FORM						
COVER CLASS (%)						2-10
DOMINANT SPECIES						<i>Dryandra arnata</i> <i>Dryandra lindleyi</i> Subsp. 'Platensis'
		GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM						
COVER CLASS (%)		2-10	2-10			30-70
DOMINANT SPECIES		<i>Neurachne cleopatra</i> <i>Waltzia</i>	<i>Hyalospora colula</i> <i>paniculata</i>			<i>Cyperus acut.</i> <i>Mesochloa</i> <i>Tetraria octandra</i>

4. VEGETATION CONDITION

		COMMENTS
1	'PRISTINE'	
2	EXCELLENT	
3	VERY GOOD	✓
4	GOOD	
5	DEGRADED	

Jarran seedlings
 lots of tree seedlings
 grazing on shrubs
 moss
 roots + sheep
 mainly

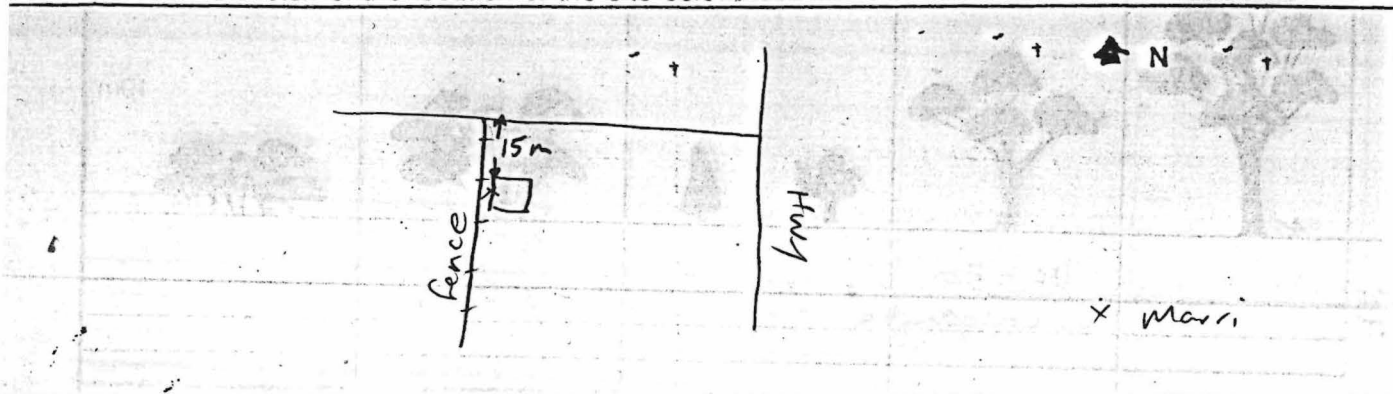
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Norman Road. SITE NUMBER NORMPS
 DATE TRIP 9-11-95 RECORDERS BJK NCT TS JE
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

LOCATION of the QUADRAT

Map Draw a sketch of the location of the site below.

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA (Inc.), PO Box 2 Nedlands WA 6008.



Road Location Norman Rd.

32 15 49

116 00 07

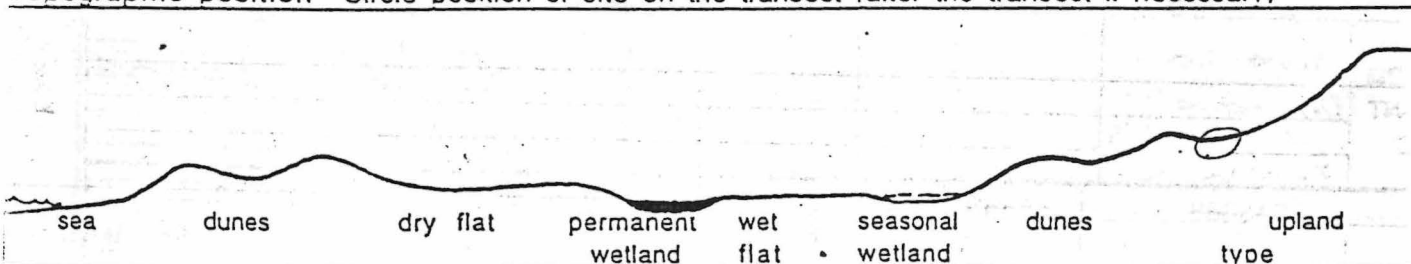
Geographic Location Latitude 32°15'49" S Longitude 116°00'24" E Altitude 60m

Reference Map ERE ± 142m

14 & 15 of creek

Photograph Photographer's Name TS Photo No 13

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope flat gentle steep Aspect N NE E SE S SW W NW

Surface Soil loamy sand Colour brown

Exposed rock type limestone pebbles % surface

Sub-surface Soil clay? termites Colour grey

Rock type depth to rock

Drainage well mod poor depth water cm Wet all year winter/spring

Litter 30-70 % cover

Depth up to 4 cm

Bare Ground < 2 % cover

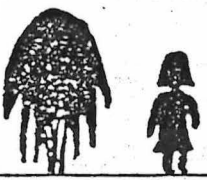
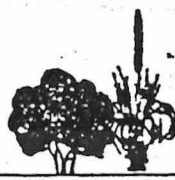
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

3. VEGETATION STRUCTURE AND COVER

From 'Bushland Plant Survey' written by B. Keighery (1994) and published by the Wildflower Society of WA Inc., PO Box 64 Nedlands WA 6008.

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.

Cover Class 2-10% 10-30% 30-70% over 70%

TREES				MALLEES	
	over 30m	15-30m	5-15m under 5m	over 9m	under 9m
LIFE FORM					
COVER CLASS (%)		10-30			
DOMINANT SPECIES		<i>E. calophylla</i>	<i>subsp. elegantella</i>		
		<i>6 mays?</i>			
SHRUBS			SHRUBS		
	over 2m	2m-1.5m	1.5-1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30				10-30
DOMINANT SPECIES	<i>Oryandra sessilis</i>				<i>Oryandra lind</i>
	<i>Xanth. acanth.</i>				
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	22	30-70			30-70
DOMINANT SPECIES	<i>Neurachne</i>	<i>Waltzie</i>			<i>Mesmel tenua</i>
		<i>Borya</i>			<i>Lepidone</i>
					<i>Tetraria oct</i>

4. VEGETATION CONDITION

	COMMENTS
1 'PRISTINE'	
2 EXCELLENT	
3 VERY GOOD	
4 GOOD	
5 DEGRADED	

not as badly grazed as p4 but still grazed

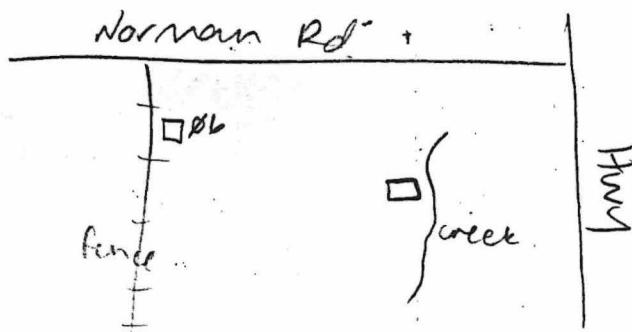
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

USHLAND AREA NORMAN Rg SITE NUMBER NORM 06
 ATE TRIP 9-11-95 RECORDERS BJL, NCT, TS, JK
 ATE TRIP _____ RECORDERS _____
 ATE TRIP _____ RECORDERS _____
 OTANIST _____

LOCATION of the QUADRAT

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Map Draw a sketch of the location of the site below.

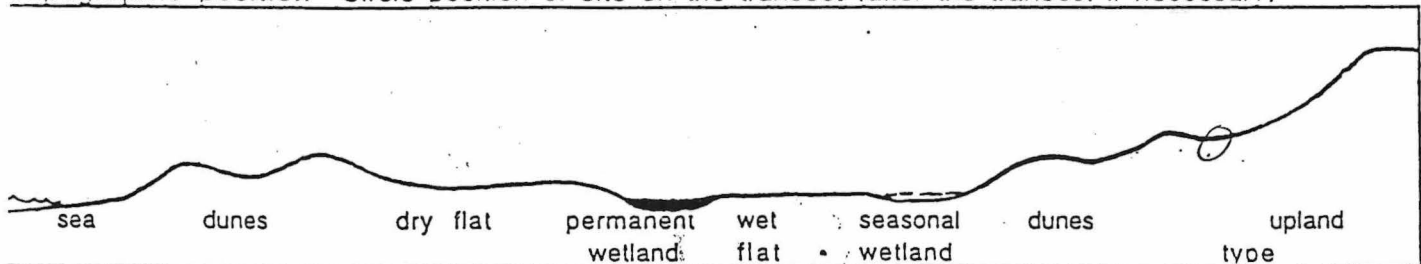


Road Location

Geographic Location Latitude 32° 15' 49" S Longitude 116° 00' 39" E Altitude 100m
 Reference Map EPE 50m

Photograph Photographer's Name TS Photo No 16

Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

Slope flat gentle steep Aspect N NE E SE S SW W NW

Surface Soil sandy loam Colour brown
 Exposed rock type laterite pebbles + rock % surface 70+

Sub-surface Soil Colour _____
 Rock type laterite depth to rock _____

Drainage well mod poor depth water cm Wet all year winter/spring

Litter 10-30 % cover 30-70 % cover
 Depth up to 5 cm

RHS = 1

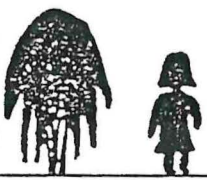
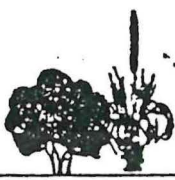
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For each layer record - appropriate life form, cover class (see below), and dominant species in each layer.

Cover Class 2-10% 10-30% 30-70% over 70%

TREES				MALLEES	
	over 30m	15-30m	5-15m under 5m	over 9m	under 9m
LIFE FORM					
COVER CLASS (%)		30-70			
DOMINANT SPECIES		<i>E. calophylla</i>			
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30-70				2-10
DOMINANT SPECIES	<i>Dryandra nivalis</i> <i>Trinervium floribundum</i>				<i>Dryandra amabilis</i>
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		2-10			2-10
DOMINANT SPECIES		<i>Hypochaeris calida</i> <i>Wairzia</i> <i>Styridium sp.</i>			<i>Lepid. scaberrima</i>

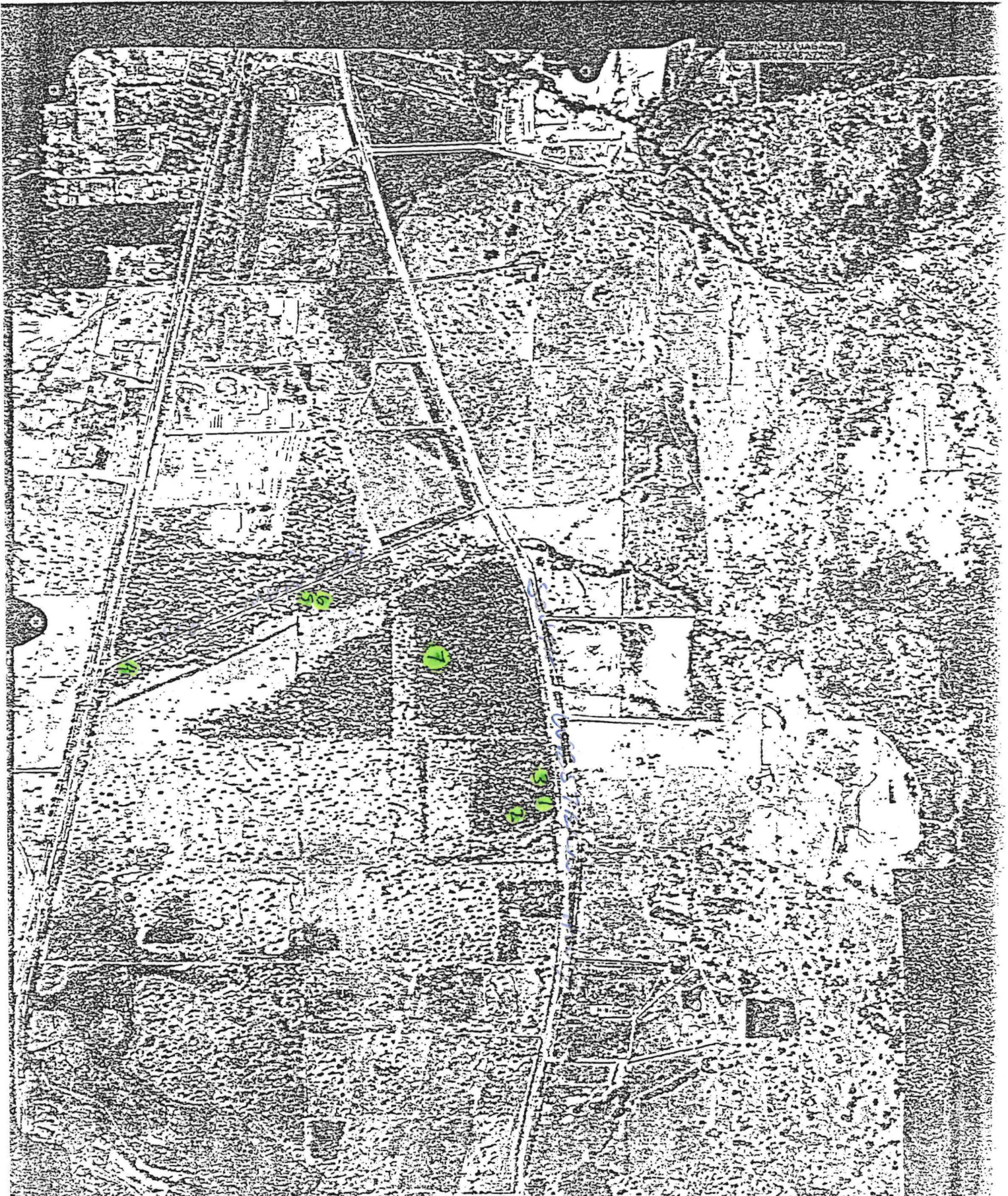
4. VEGETATION CONDITION

1	'PRISTINE'	COMMENTS alot of moss erosion alot of seedlings
2	EXCELLENT	
3	VERY GOOD ✓	
4	GOOD	
5	DEGRADED	

NORMAN 3 - POORELY RESERVED +/OR THREATENED PLANT
COMMUNITY

NORM 01 - 07

↑N



Lat	Long	Quadrat
116	-32	page01
116	-32	norm04
116	-32	norm05
116	-32	norm06
116	-32	norm02
116	-32	norm01

Red 10

31 50.395 116 03.964 ✓

31 50 24 116 03 58

Red 11 31 50.763

116 03.899

31 50 46

116 03 54 ✓

RUSH 3

32 03.824

116 01.565

31 3 49

116 1 33.9

MONDAY - Need all coded!

→ BIOCLIM long lat

FRIDAY → Land tenure status

→

SAT-SUN → GROPPINGS

Need

No coord. for ellib 6

Page 1 115.9700 32.4612 - PINJARRA
115 58 12 32 27 40

~~NORM 1~~ 116.0124 32.2708
~~116 00 45 32 16 15~~

NORM 2 116.0114 32.2713
116 01 41 32 16 17

NORM 4 115.9947 32.2659
115 59 41 32 15 57

NORM 5 116.0020 32.2635
116 00 07 32 15 49 249

NORM 6 116.0025 32.2635
116 00 09 32 15 49

BUFORD

~~Red 2~~

Red 3 31 50.681 116 03.868 ✓
31 50 41 116 03 52

Red 4 31 50.681 116 03.994 ✓
31 50 41 116 04 00

Red 5 31 50.599 116 03.994 ✓
31 50 36 116 04 00

Red 6 31 50.545 116 03.994 ✓
31 50 33 116 04 00

Red 7 31 50.504 116 03.962 ✓
31 50 30 116 03 58

Red 9 31 50.436 116 04.025 ✓
31 50 26 116 04 02

Dec 9th 1992

NP

Coversheet information is required for the following DEP sites

~~Norm01~~
~~Norm02~~
~~Norm04~~
Norm05
Norm06

} Species sheet missing in duplicates

lamb1
lamb2

talb1
talb12
talb13
talb4

Together with three of my Scarp sites and three Ellis Brook sites, these sites form a group(s) associated with ridge hill shelf/Forestfield complex soils

page 1?

Adrienne

Your analysis sounds very interesting.
These are my duplicates from home.
If you need the originals (especially
as Norm 05, 06 have a few gaps in
the names) please let me know.

All the best

Brown

Norm Rd sites → are not species poor but have the same species richness as the other sites - lightly grazed in history
Doit info that these are spp poor - but have many singletons -
→ are okay to analyze - poorly reserved +/- threatened plant community.