

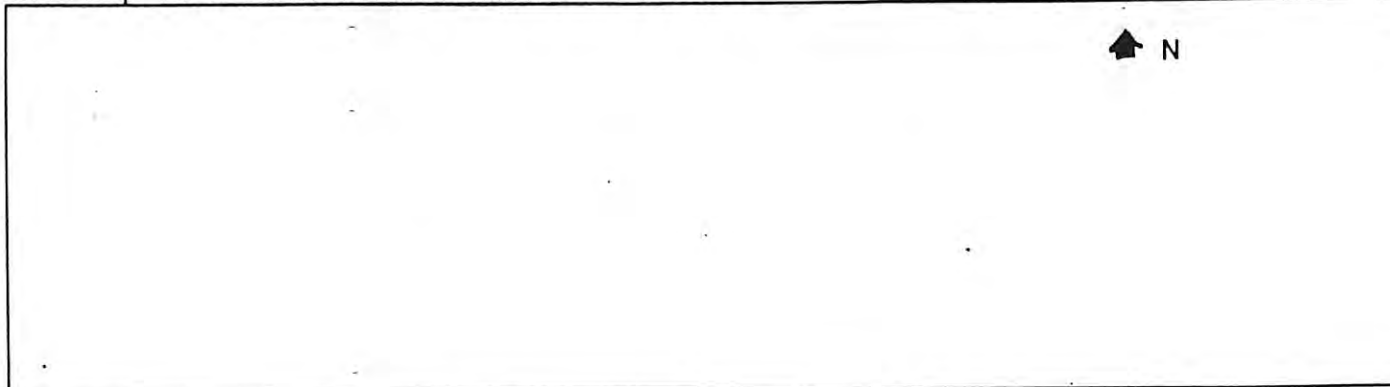
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa SITE NUMBER I
 DATE TRIP 23/10/1998 RECORDERS GK/NG
 DATE TRIP 13-8-1999 RECORDERS GK/NG/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

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

1. LOCATION of the QUADRAT

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

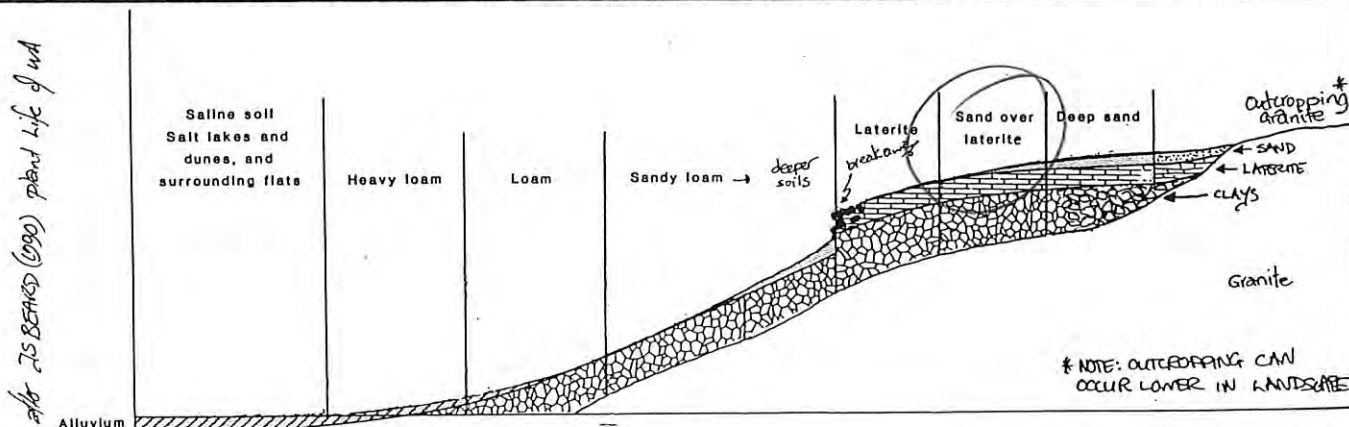


Road Location BURMA RD RESERVE

Geographic Location Latitude _____ S Longitude _____ E Altitude _____
 Reference Map _____

Photograph _____ Photographer's Name _____ Photo No 34

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 grey sand Colour grey
 Exposed rock type % surface _____

Sub-surface Soil laterite Colour _____
 Rock type depth to rock 20cm

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

Litter twigs 1/5 % cover 70/90 Bare Ground 10/20 %cover _____
 Depth 2/5 cm

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

3. VEGETATION STRUCTURE AND COVER

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 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			30/70	10/20	
DOMINANT SPECIES			Caloth. quad Hakea Bayk. scabrella Alloc. hum Eremaea acut	Hibbertia Dampiera	

GRASSES		HERBS		SEDGES	
	over 0.5m			over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2%	2-10			10/20
DOMINANT SPECIES	Amphip. turb Neuradme alop	Pteroch. pannie			Restio Mesomelaena pr

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

Label each plant with plants number, site code, date and plant's name or working name if required

SITE No ML 01
Date 23/10/98
13-8-1999

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

				• Column 4 Identification check							
TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				Baerkea sp Walkaway ✓				Levenhookia ? pusilla ✓			
				Petrophile ? shuttleworth ✓				Conostylis ? acutirostrata ✓			(vsp)
				Isopogon lewis ✓				Levenhookia stipitata ✓			
				Cassidix ✓				Crocosmia sieberiana ✓			
				Scaevola phlebopetala ✓							
				Astroloma foliolosa ✓			(vsp)				
MALLEES				Calytrix ? strigosa ✓							
				Scandea ? repens 28/10 (sterile) ✓							
				GRASSES							
				✓ A-Stipa macalpinei ✓			vsp				
				Stipa elegantiss ✓							
				Neracme Valopec ✓							
SHRUBS				Vulpia myuros ✓							
Leptospermum spinescens ✓				Amphipogon turbin ✓				SEDGES			
Hakea lissocarpa ✓				" " (cherry) ✓				Mesomelaenia preissii ✓			
✓ H. hectori Fawcett verrucosa ✓				Danthonia ✓				Lyginia imberbis ✓			
Eremophila ? acuta ✓				(vsp)				Schoenus brevisetis ✓			(vsp)
Hakea obliqua ssp parviflora vsp ✓				HERBS				✗ Festuca sp Chordites canosus ✓			(vsp)
Dampiera lucida ✓				Ursinia anthemoides ✓				Alexandria ? nitens ✓			
Aillocas humilis ✓				Phorchaeta panicul ✓				Cabochia dioica ✓			
Dryandra shuttleworthii ✓				Hypochaeris glabra ✓				Lepidosiphon angust ✓			
Melaleuca ? [F. racemosa] = S. J. H. ✓				Trachymen pilosum ✓				" ? tenuis leptostachyum ✓			
Lysinema ciliatum ✓				Acanthocarpus ? robusta ✓				Schoenus pleiostomen ✓			(vsp)
Banksia scabrella (dead / seedlings) ✓				Burchardia congesta ✓				Calandrinia corrigioloides 13/8 ✓			
Petrophile brevifolia ✓				Paranthera microphylla ✓				Scaevola repens 13/8 ✓			
Isotropis cuenifolia ✓				Nahlerberg pteiss ✓				Daviesia cordiophylla 13/8 ✓			(vsp)
Oreocarya vagin ✓				Drosera derythrorhiza ✓				Schoenus claudetian 13/8 ✓			
Calothamnus quadrangulatus ✓				Podanthus angust ✓				Drosera stolonifera 13/8 ✓			
Jacksonia ✓				Waitzia (strictly cum white) ✓				Schoenus claudetian ✓			
Glenantheum ? notide subnotide ✓				Stylidium crossoceph ✓							
Hakea laevis cp ✓				Goodenia ✓							
Phytolobus stirlingii ✓											

sp Burma Rd VSP
new fax

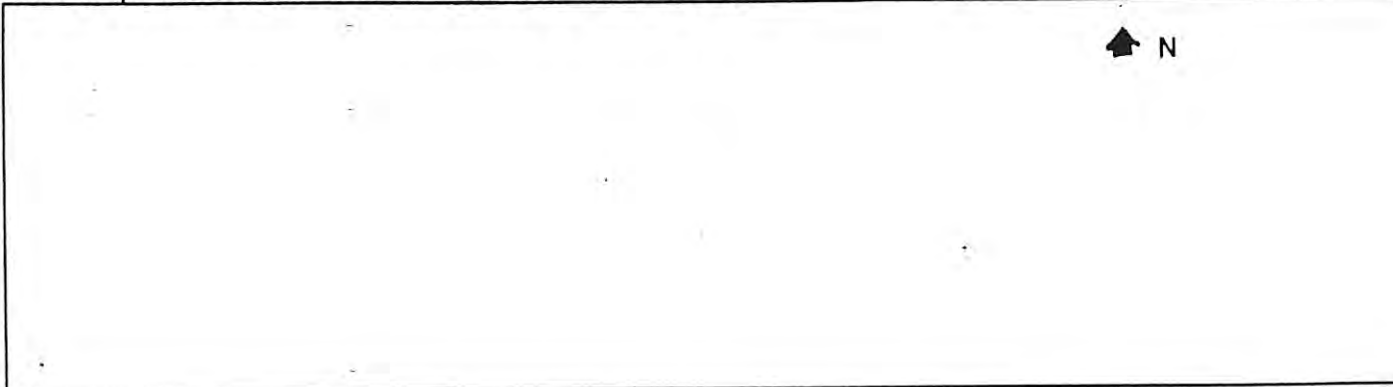
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa SITE NUMBER 02
 DATE TRIP 23/10/1998 RECORDERS NG/GK
 DATE TRIP 13-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

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

1. LOCATION of the QUADRAT

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



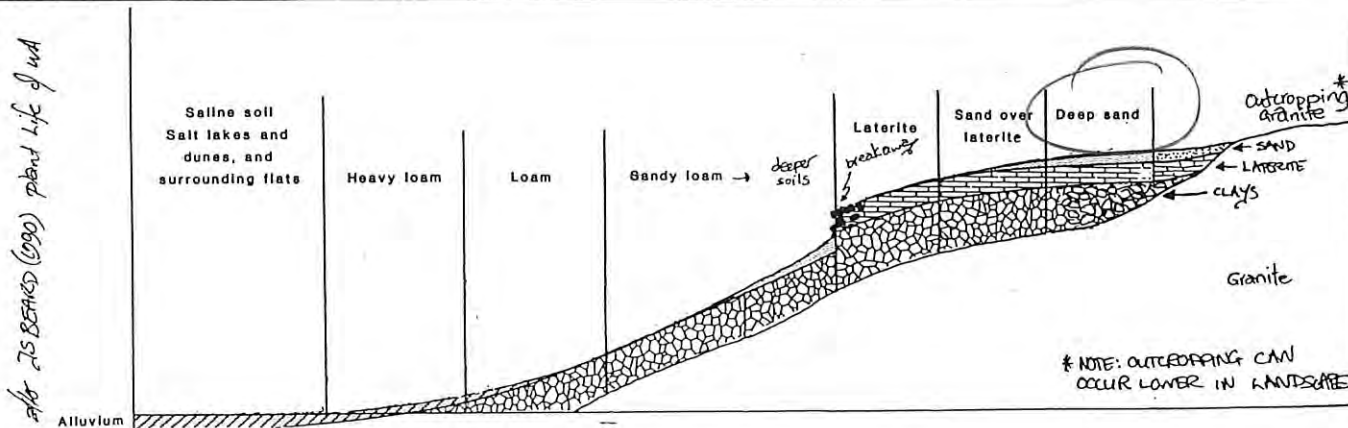
Road Location CASUARINA'S ROSSMIE

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____

Photograph Photographer's Name NG Photo No 36

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** grey

Exposed rock type NONE % surface _____

Sub-surface Soil sand **Colour** grey

Rock type _____ depth to rock ? > 60cm

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

Litter twigs, stems, lvs % cover 30/50 **Bare Ground** 10/20/30 %cover _____
 Depth cm 2-10

3. VEGETATION STRUCTURE AND COVER

Cover Class	2-10%	10-30%	30 - 70%	over 70%
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4. VEGETATION CONDITION

Comments

very good - excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

Label each plant with plants number, site code, date and plant's name or working name if required

Column 1 plant name

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

→ Schätzung off. Festfolien
"ultrafus"

Podolci Barani 23/10

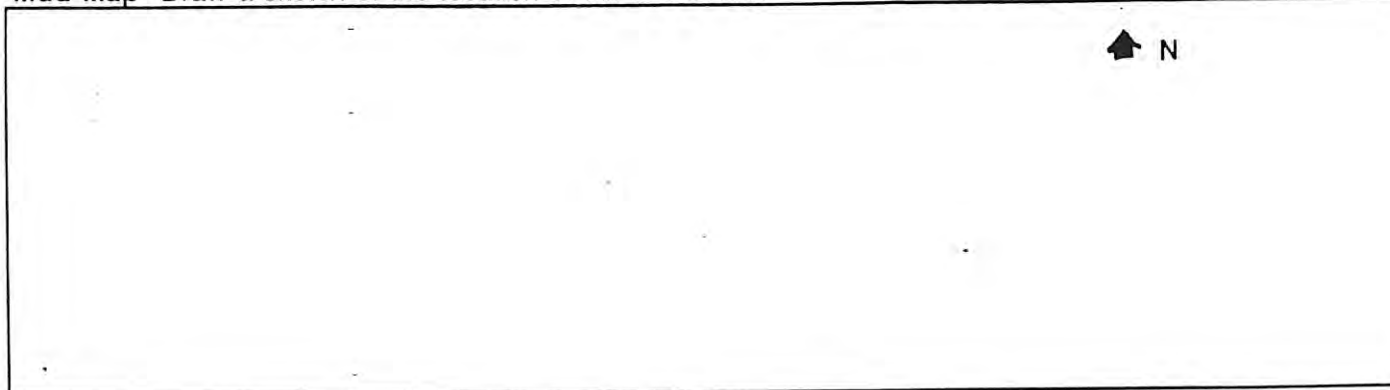
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa SITE NUMBER 03
 DATE TRIP 23/10/1998 RECORDERS NG/GK
 DATE TRIP 13-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

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

1. LOCATION of the QUADRAT

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

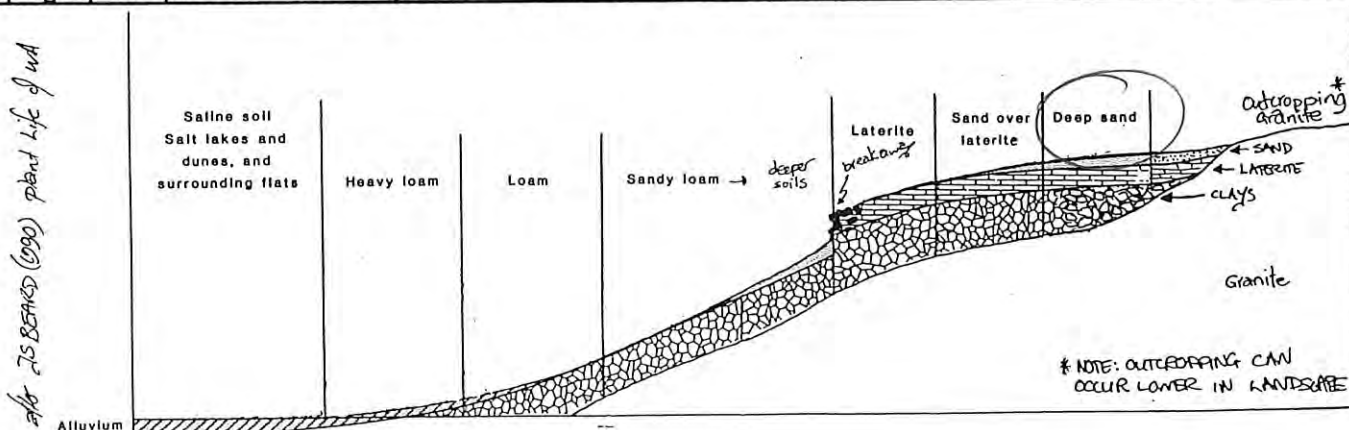


Road Location Mingenew - Mullewa rd.

Geographic Location Latitude _____ S Longitude _____ E Altitude _____
 Reference Map _____

Photograph _____ Photographer's Name NG Photo No 37

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 yellow
 Exposed rock type none % surface _____

Sub-surface Soil sand Colour yellow
 Rock ? type _____ depth to rock > 1 metre

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

Litter twigs, lvs 70/90 % cover _____ Bare Ground 10/20 % cover _____
 Depth 2-5 cm

Comments long unbent
very good - excellent
some annual weeds

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

Label each plant with plants number, site code, date and plant's name or working name if required

5. SPECIES PRESCENCE

Record on Sheet

SITE No ML 03

Date 23/10/1998

13 / 8 / 1994

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

				• Column 4 identification check							
TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Banksia prionotes ✓								Astrop capillip ✓			
								Thysanotus thysoides ✓			
								Gonocarp nod ✓			
								Ceratogone oblong ✓			
MALLEES								Goodenia herard ✓			
								Levenh pusilla ✓			
								Wahlenb preiss ✓			
				GRASSES							
				Stipa elegantiss ✓							
				Panthonia ✓							
SHRUBS				Stipa macalyp ✓							
Actinost areolaris ✓				Pentstemon ceruleus 13/10 ✓				= T. danti			
Allocas acutivalvis ✓				Triodea longipetala ✓				SEDGES			
Schottzia drummond ✓				Plectranche (as Mör) = (Mör) ✓				Macromelaena preiss ✓			
Calytrix ✓				Elhorta long ✓				Ecdiocolea mono ✓			
Cemosperna scoparium ✓				Vulpia my ✓				Lepidobolus chaeta ✓			
Rhagodia drumm ✓								Caladenia flava ✓	13/8		
Bombamia rosea ✓				HERBS				Draera stolonifera humilis ✓			
				Dianella revoluta ✓				Laurenciella davenp ✓	13/8		
Baerhaea blanchallii ✓				Waitzia acumin (white yellow) ✓				Schoenus nanus ✓	13/8		
Thyflorae baerhaeae ✓				Hypoch glabra ✓				Caladenia varians ✓	13/8		
				Urbinia canthem ✓				Anigoz humilis ✓	13/8		
				Trachym pilosa ✓							
				Wahlenb preiss ✓				Brownia coeruleascens ✓	13/8		
				Blennospora drumm ✓				Schoenus latitans ✓	13/8		
				Lobelid gibb ✓				Nervache alopecur ✓	13/8		
				Trachym cyanop ✓							
				Acanthoc cannatic preiss ✓							
				Lawrenc ? davenp ✓							
				Thysanotus pat ✓							

ADD Malleson hirst house //

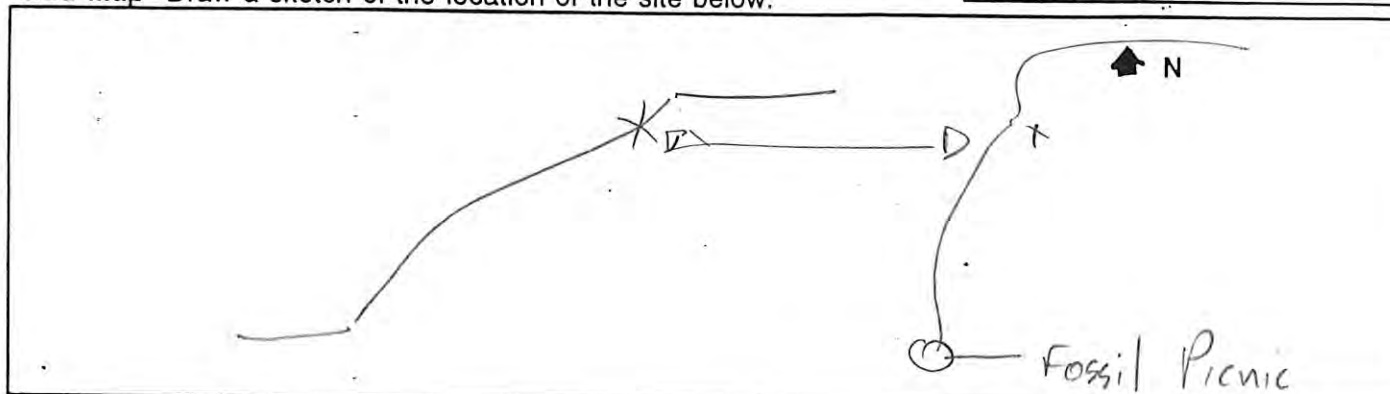
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA MULLEWA (ML) SITE NUMBER 4
 DATE TRIP 22-10-1998 RECORDERS GK/NG
 DATE TRIP 13-8-1999 RECORDERS GK/NG/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

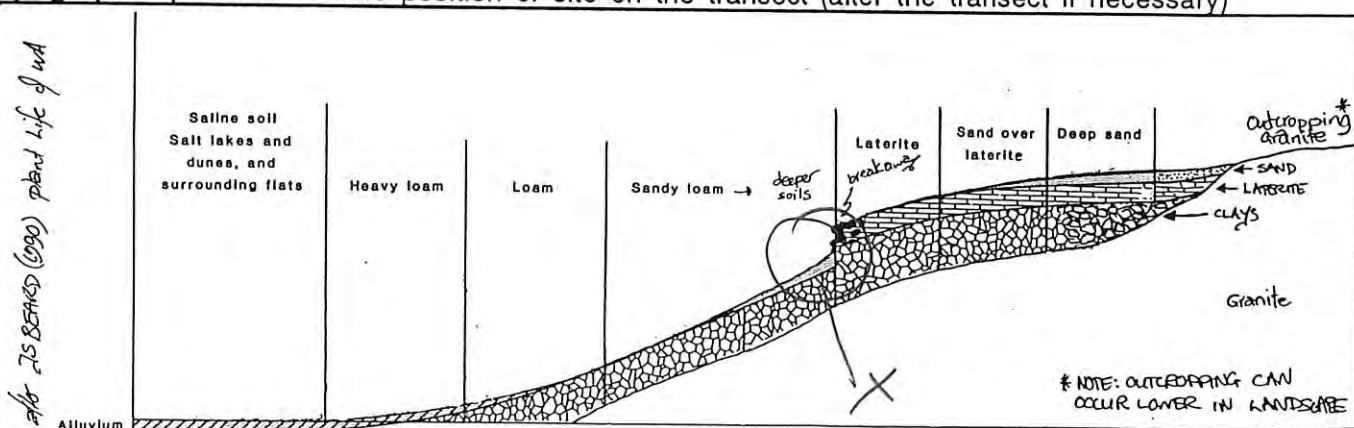


Road Location Coalseam Cons Park

Geographic Location Latitude _____ S Longitude _____ E Altitude _____
 Reference Map _____

Photograph Photographer's Name NG Photo No 30

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 clay Colour red-brown
 Exposed rock type laterite % surface small pebbles

Sub-surface Soil clay Colour grey
 Rock type _____ depth to rock _____

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

Litter Depth 2/3 % cover _____ Bare Ground 2/10 % cover _____

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

3. VEGETATION STRUCTURE AND COVER

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 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES	<i>Dodon. inaequalif</i>				
	<i>Ac. acumin</i>				
	30/70				

GRASSES		HERBS		SEDGES	
	over 0.5m		under 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES	<i>Avena barbata</i>	<i>Waltz acum</i> <i>Echium pl.</i>			
	20/40	70/90			

4. VEGETATION CONDITION

Comments

very good

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20x20

6 mml

5. SPECIES PRESCENCE

SITE No ML 4
Date 22/10/98
13-8-1999

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES

No FI ID

SHRUBS (cont.)

No FI ID

HERBS (cont.)

No FI ID

MALLEES

GRASSES

SHRUBS

~~Acacia acuminata~~
~~Dodonaea viscidiflora~~ (VSP)
~~Rhagodia drummondii~~
~~Acacia tetragonophylla~~

~~Avena barbata~~
~~Ara. caryophyll~~
~~Agrostis preissii~~
~~Vulpia myuros~~
~~Phalaris~~
~~Rostraria cristata~~

HERBS

~~Echium plantaginifolium~~ (VSP)
~~Chelanthus australis~~
~~Hypochaeris glabra~~
~~Erodium cicutarium~~
~~Arctotheca calendula~~
~~Cephalopodium drummondii~~
~~Medicago truncatula~~
~~Hedyotis rhagadioides~~ (VSP)
~~Sonchus oleraceus~~
~~Pterostylis (infruct)~~
~~Calandrinia sp. - no fruit~~
~~Petrophragma proliferum~~
~~Rhodanthe flavovirens~~

~~Brachycome acyanop~~
~~Il. ornata~~
~~Dielsia hastifolia~~
~~Helipterum spicatum~~
~~Rhodanthe citrina~~
~~Mitrasacme paradox~~

~~Goodenia bicordata~~

~~Gnaphosia~~

~~Ptilotus gaudichaudii~~
~~Medicago polymorpha~~

SEDGES

~~Calandrinia latifolia~~ 13/8 (VSP)
~~Urospermum bicoides~~
~~Wulmbea densiflora~~ 13/8 (VSP)
~~?? (white fls)~~ 13/8
~~Osteospermum clandestinum~~ 13/8 (VSP)
~~Cyanicula deflexa~~ 13/8 (VSP)
~~Drosera bulbosa~~ 13/8
~~Daucus glochid~~ 13/8
~~Enchylotoment~~ 13/8
~~Caladenia reptans~~ 13/8
~~Hypoxis zeyheri~~ 13/8 ?
~~Calladenia varians~~ 13/8
~~Calotis multicaulis~~ 13/8
~~Hyalospermum glutinosum~~ 13/8
~~Thysanotus umangii~~ 13/8
~~Waitzia nitida~~ 13/8
~~Silene gallica~~ 13/8
~~Brassicaria tournefortii~~ 13/8

Crowned Snake — olive / black head, Silene nocturna 13/8

Triglochin aethiops ssp. rufum 13/8
Calandrinia latifolia ssp. rufum 13/8 (VSP)

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ML (Mullewa) SITE NUMBER 05
 DATE TRIP 26/10/1998 RECORDERS NG/GK
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



Road Location

Wilroy NR

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

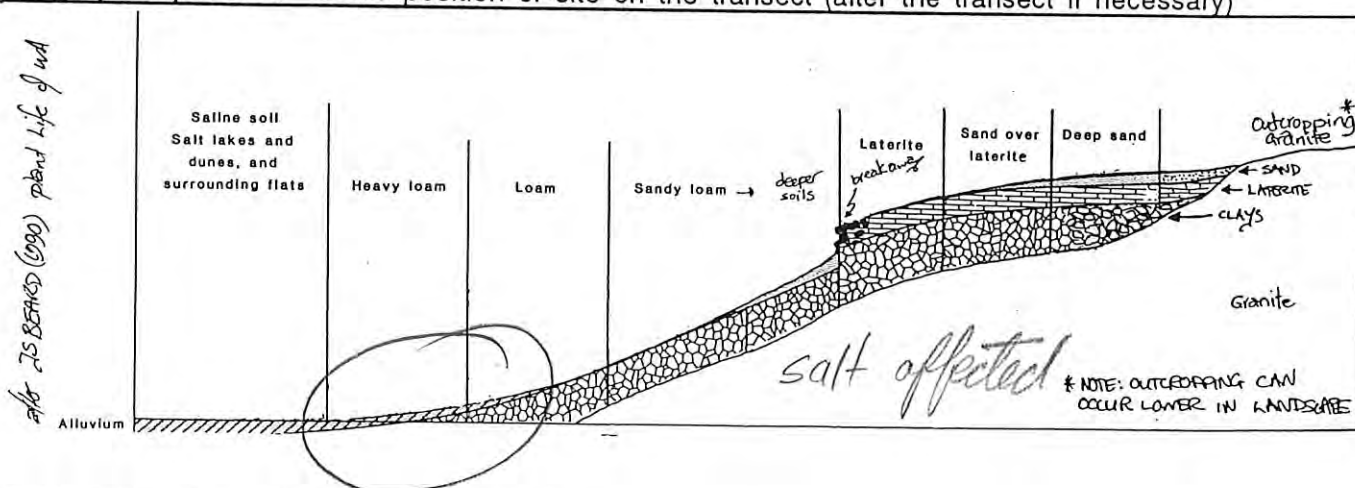
Photograph

Photographer's Name

NG

Photo No 26

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 clay Colour red-brown
 Exposed rock type % surface none

Sub-surface Soil clay Colour red
 Rock type depth to rock un/kn

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

Litter logs twigs % cover _____
Depth cm Bare Ground 0/10 % cover _____

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

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 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	4/5m				2m
DOMINANT SPECIES	Mel. laterifl Acacia Ac. acum				1m

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
	LIFE FORM				
COVER CLASS (%)	>50	20/30			1m
DOMINANT SPECIES	Briza max Avena barb	Waltz acun Philopis gaud " blunck			

4. VEGETATION CONDITION

Comments

poor
- trees dying (salt)
- shrubs declining
- massive weed invasion

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	ML 05
Date	26-10-1998
	12-8-1999

Record on Sheet

- file folder -

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
/								<i>Stenopetalum linear</i>			
								<i>Podolep lessonii</i>			
								<i>Podotherca graphal</i>			
MALLEES											
				GRASSES							
				<i>Avena barbata</i>							
				<i>Briza maxima</i>							
				<i>Vulpia myuros</i>							
SHRUBS <i>elutharostalgic</i>				<i>Brachypod distachy</i>							
<i>Melaleuca lateriflora</i>			(VSP)	<i>Stipa elegantiss</i>							
<i>Acacia (lept)</i>				<i>Echirharta brevif</i>				SEDGES			
<i>Enchytaena toment</i>				<i>Stipa trichophylla</i>				<i>Drosera macrantha (pink)</i>	12/8		
<i>Acacia (flat) coolgardiensis</i>			sp effusa					<i>Cyanicula deformis</i>	12/8		
<i>Cornesperma integr</i>								<i>Acacia acuminata</i>	12/8		
<i>Ptilotus stictinadrummond</i>			vsp	HERBS				<i>Ursinia anthemoides</i>	12/8		
<i>Stenanthernum ~~rustica~~</i>				<i>Dianella revol</i>				<i>Schoenus oleraceus</i>	12/8		
<i>stipitosa polyclon</i>				<i>Waitzia acumin</i>				<i>Osteospermum claud.</i>	12/8		
(note flat = JAM)				<i>Haloragis trigonoe</i>				<i>Arctotheca calend</i>	12/8		
				<i>Ptilotus gaudichaudi</i>							
				<i>Lawrencilla daveno</i>							
? <i>Acacia rumulosa rumulosa</i>				<i>Trachym ornata</i>							
				<i>Schoenia cassinia</i>							
				<i>Thys mangl</i>							
				<i>Drosera menzies</i>							
				<i>Chirilanthos abstr +</i>							
				<i>Ptilotus ~~trist~~ humilis</i>			humilis (VSP)				
				<i>Hypochaeris glabra</i>							
				<i>Daucus glochid</i>							

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ML (Mullewa) SITE NUMBER 06
 DATE TRIP 27-10-1998 RECORDERS NG/GK
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



Road Location

Uranita NR

Geographic Location Latitude

S Longitude

E Altitude

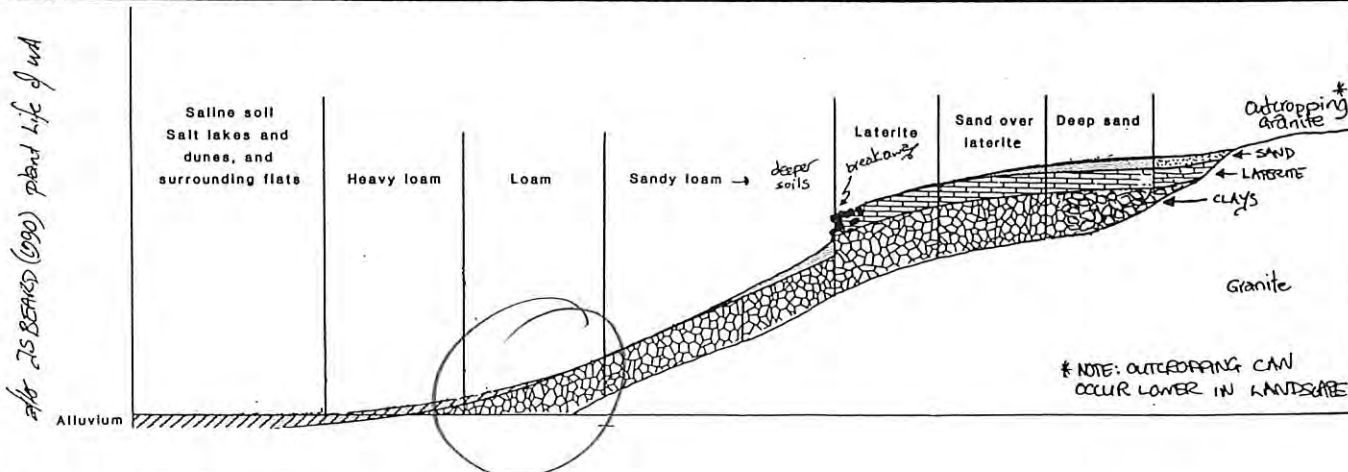
Reference Map

Photograph

Photographer's Name

Photo No 28

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 clay - loam Colour red

Exposed rock type _____ % surface _____

Sub-surface Soil clay loam Colour red

Rock type _____ depth to rock _____

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

Litter twigs, lvs, logs % cover 50 Bare Ground 30/50 % cover

Depth 0 cm 2-15

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

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 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)				10/30	
DOMINANT SPECIES				<i>Euc. aff. olivosa</i> <i>Euc. hypochl.</i>	
				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10		2-10		2-10
DOMINANT SPECIES	<i>Ac. acumin</i> <i>Ac. tetragon</i> <i>fraxillo</i>		<i>Ac. acutaria</i> <i>Bursaria occ</i> <i>Pimel. micro</i>		<i>Enchyl. tom</i> <i>Ptilot. obov</i> <i>Schrol. diac</i>
	GRASSES		HERBS	SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20		2-2		
DOMINANT SPECIES	<i>Stipa eleg</i> <i>Monacath. parod</i>		<i>Pt. polyst</i> <i>Pt. gaud</i> <i>Podol. canescens</i>		

4. VEGETATION CONDITION

Comments

excellent

rough

20x20

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

g name if required

Euc. hypochl (Smith)
horistes
~~*Euc. (rough, to 3m, 6m tall)*~~
kochii ssp. *plenissima*

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Mullewa (ML) SITE NUMBER 07

DATE TRIP 27-10-1998 RECORDERS NG/GK

DATE TRIP 12-8-1999 RECORDERS NG/GK/AW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location Urawa Rd / Urawa NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	<u>NG</u>	<u>29</u>

Topographic Position	(Circle the correct response)
☒ Upland ☐ Upper slope ☐ Midslope	☐ Lower slope ☐ Valley ☐ Washline

2. SITE DATA Circle the correct response

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

Surface Soil	<u>clay</u>	Depth to Rock	Colour	<u>red</u>

Exposed Rock	type	<u>quartz</u>	% surface cover	<u>20</u>	size range	<u>2-20cm</u>

Litter + twigs, grass, lvs	% surface cover	<u>30</u>	Depth (cm)	<u>2-15</u>

Bare Ground	% surface cover	<u>30 / 70</u>

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

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 15m	5-15m	under 5m	over 8m	under 8m	
LIFE FORM						30m 10m
COVER CLASS (%)						
DOMINANT SPECIES						
SHRUBS					SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m	
LIFE FORM						2m 1m
COVER CLASS (%)	10/30					
DOMINANT SPECIES	Acacia ? linop 11 tetrag					
GRASSES		HERBS	SEDGES		under 0.5m	
			over 0.5m			
LIFE FORM						1m
COVER CLASS (%)	2-10	30/50				
DOMINANT SPECIES	Stipa trichop Majaro	Borja nitida M. Nioe quer Podol. canesc				

4. VEGETATION CONDITION

Comments

very good - excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

Label each plant with plants number, site code, date and plant's name or working name if required

SITE No ML 07

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Date 27-10-1998

12-8-1999

[illegible]

(pink)

— hotelu bet. flych. 27/10 —

Gnephosis tenuissima

knusssame (large variant) USP

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA ML (Mullewa) SITE NUMBER 08
 DATE TRIP 27/10/1998 RECORDERS NG/GK
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location YUNA RD / Wandana NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	<u>NG</u>	<u>30</u>

Topographic Position	(Circle the correct response)
☒ Upland ☐ Upper-slope ☐ Midslope	☐ Lower slope ☐ Valley ☐ Washline

2. SITE DATA Circle the correct response

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

Surface Soil sand Depth to Rock >5m Colour orange

Exposed Rock type _____ % surface cover _____ size range _____

Litter logs, twigs, lvs % surface cover 30/50 Depth (cm) 2-10

Bare Ground % surface cover 50/70 30/50

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

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%

LIFE FORM	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
					30m
					10m
COVER CLASS (%)					10/20
DOMINANT SPECIES					Euc. Euc. eudes Euc. jucunda
LIFE FORM	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
	Acacia 				
					2m
					1m
COVER CLASS (%)	10/20		2/10		2
DOMINANT SPECIES	Eremaea. Hakea bacc Alloc. camp		Stylobas. spathulatum Metal. cordata		Micromyrtus
LIFE FORM	GRASSES	HERBS	SEDGES	over 0.5m	
				under 0.5m	
				1m	
COVER CLASS (%)	20/30	2/10			
DOMINANT SPECIES	Plectrachne	Watzia ac Trachy cyan Podol. canesc			

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

Enc. endemoides

5. SPECIES PRESCENCE

SITE No	ML 08
Date	27-10-1998
	12-6-1999

Label each plant with plants number, site code, date and plant's name or working name if required
Record on Sheet

- Column 1 plant name
- Column 2 plant number

NEUC? JUC

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

working name if required
NEuc. ? jucunda (vsp)
(fruits only)

[illegible]

12/9/99 ADJ. Males: Eu ³ burac : smth grey bk, 3/4 stars, 5 meters, green/sg - dull
opinaris

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA ML (Mullewa) SITE NUMBER 09

DATE TRIP 27-10-1998 RECORDERS NG/GK

DATE TRIP 12-8-1999 RECORDERS NG/GK/AW

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location Yuna NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	<u>NG</u>	<u>36</u>

Topographic Position	(Circle the correct response)
☒ Upland ☐ Upper slope ☐ Midslope	☐ Lower slope ☐ Valley ☐ Washline

(top b/t b/ways)

2. SITE DATA Circle the correct response

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

Surface Soil	<u>clay</u>	Depth to Rock	<u>10-30cm</u>	Colour	<u>white/grey</u>

Exposed Rock	type	<u>sandstone</u>	% surface cover	<u>2/10</u>	size range	<u>20-30cm</u>

Litter	<u>logs, twigs</u>	% surface cover	<u>10/30</u>	Depth (cm)	<u>2-15</u>

Bare Ground	% surface cover)	<u>30</u>

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

3. VEGETATION STRUCTURE AND COVER

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

record - appropriate life form, cover class (see below)				
Cover Class	2-10%	10-30%	30 - 70%	over 70%

TREES				MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	10/20			2/10
DOMINANT SPECIES	<i>Ac. acumin</i> <i>Mel. uncinata</i>	<i>Mel. filifolia</i> <i>Baeckea</i> ?gr.			<i>Verticordia</i> ? pen

GRASSES		HERBS	SEDGES	SEDGES	
			over 0.5m	under 0.5m	
LIFE FORM					
COVER CLASS (%)	2	30/70			
DOMINANT SPECIES		<i>Borja</i> ? nitida <i>Waitzia acum</i>			

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No ML 09
Date 27-10-1998
12-8-1999

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
								<i>Drosera menz</i> ✓			✓
								<i>Millotia</i> ✓			✓
								<i>Centrolepis cristata</i> ✓			✓
								<i>Schoenus elegans</i> ✓			✓
								<i>Brachycome</i> ✓			✓
								<i>Waitzia citrina</i> ✓			✓
								<i>Blennosp drumm</i> ✓			✓
								<i>Hypoch glabra</i> ✓			✓
								<i>urhitenberdia preiss</i> ✓			✓
								<i>Cheilanthes aust</i> ✓			✓
								<i>Lawrenciella davenp</i> ✓			✓
								<i>Trachym ornata</i> ✓			✓
								<i>Rhodanthe laevis</i> ✓			✓
								SEDGES			
								<i>Gordonia berardiana</i> ✓			✓
								<i>" occident</i> ✓			✓
								<i>Thysanotus</i> ✓			✓
								<i>Ursinia anthem</i> ✓			✓
								<i>Podotrocha gnaphal</i> ✓			✓
								<i>Mitrasacme paradox</i> ✓			✓
								<i>Aristida conferta</i> ✓	12/8		✓
								<i>Thely antemileia</i> ✓	12/8		✓
								<i>Rhodanthe manglesii</i> ✓	12/8		✓
								<i>Cyanicula amplexans</i> ✓	12/8		✓
								<i>Caesia alfordii</i> ✓	12/8		✓
								<i>Stylidium become</i> ✓	12/8		✓
								<i>Erodium cygnorum</i> ✓	12/8		✓
								<i>Holosperrum demissum</i> ✓	12/8		✓
								<i>Brodia glanduligera</i> ✓	12/8		✓
								<i>" macrantha</i> ✓	12/8		✓
								<i>Ophioglossum cariac</i> ✓	12/8		✓
								<i>"</i> ✓	12/8		✓

Add *A. acumin* ADS
from cross sheet

✓ *Brachycome perpusilla*

✓ *Quinetia uvviller* 12/8

✓ *borealis*

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA ML (Mullewa) SITE NUMBER 10
 DATE TRIP 27-10-1998 RECORDERS NG/GK
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location BINDOO HILL NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	<u>NG</u>	<u>1</u>

Topographic Position	(Circle the correct response)
<u>Upland</u> <u>Upper slope</u> <u>Midslope</u>	Lower slope Valley Washline

2. SITE DATA Circle the correct response

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

Surface Soil clay Depth to Rock 0-20cm Colour brown

Exposed Rock type sandstone % surface cover 20 size range 10-40cm

Litter logs, lvs, twigs % surface cover 30 Depth (cm) 2-5

Bare Ground % surface cover 0-10 (annuals)

> 30/70 cm (summer)

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

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%

LIFE FORM	TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m	
						
COVER CLASS (%)	20-2/100	1/1	2			
DOMINANT SPECIES	Euc. 10xgn		Ac. acumin			
LIFE FORM	SHRUBS					
	over 2m	2m-1.5m	1.5-1m	1-0.5m	under 0.5m	
						
COVER CLASS (%)	2/10		2-10		10/20	
DOMINANT SPECIES	Ac. tetragon Halimolobos Eremophila al.		Ac. acutaria		Atriplex vesic	
LIFE FORM	GRASSES		HERBS		SEDGES	
	over 0.5m	under 0.5m	over 0.5m	under 0.5m	over 0.5m	under 0.5m
						
COVER CLASS (%)	30/70	20/50				
DOMINANT SPECIES	Vulpia myur	Helipteris strict Cephaloscyrus Eremophila ramosum				

4. VEGETATION CONDITION

Comments

grazed, shrubs regen, heavy
grassy weed invasion

20720

Label each plant with plants number, site code, date and plant's name or working name if required

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

me if required

E. loxophlaga

Brachycame iberidifolia -

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA ML (Muellawa) SITE NUMBER 11
 DATE TRIP 27-10-1998 RECORDERS NG/GK
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location BINDOO HILL NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	<u>NG</u>	<u>37</u>

Topographic Position	(Circle the correct response)
☒ Upland ☐ Upper slope ☐ Midslope	☐ Lower slope ☐ Valley ☐ Washline

2. SITE DATA Circle the correct response

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

Surface Soil	<u>sandy loam</u>	Depth to Rock	<u>2-30cm</u>	Colour	<u>yellow</u>

Exposed Rock	type	<u>sandstone</u>	% surface cover	<u>30/50</u>	size range	<u>2cm - 30cm</u>

Litter + twigs, lvs	% surface cover	<u>70/90</u>	Depth (cm)	<u>2-5</u>

Bare Ground	% surface cover	<u>10/20</u>

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

3. VEGETATION STRUCTURE AND COVER

3. VEGETATION STRUCTURE AND COVER

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

TREES			MALLEES		
	over 15 m	5 - 15 m	under 5 m	over 8 m	under 8 m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

SHRUBS				SHRUBS	
	over 2 m	2 m - 1.5 m	1.5 - 1 m	1 - 0.5 m	under 0.5 m
LIFE FORM	<i>Beyeria lech</i> 				
COVER CLASS (%)	30/70		10/20		
DOMINANT SPECIES	<i>Mel. filifolia</i> <i>Alloc. camp</i> <i>Hakea inva g</i>		<i>Thrypt. saric</i>		

GRASSES		HERBS	SEDGES	over 0.5 m	under 0.5 m
LIFE FORM					
COVER CLASS (%)	< 2	< 2			
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No MZ 11

Date 27-10-1998

12-8-1999

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
MALLEES				GRASSES				SEDGES			
				<i>Vulpia myuros</i> <i>Stipa maculipinea</i>							
				<i>Thypholytis</i> (VSP)							
SHRUBS				HERBS							
<i>Melaleuca filifolia</i> ✓ <i>Thryptomena ? saxia</i> ✓ <i>Beyeria lechenaultii</i> ✓ <i>Allocasuarina campestris</i> ✓ <i>Walteria calyculata ? var. ...</i> ✓ <i>Cassipourea bonifera</i> (VSP) ✓ <i>Halea invagata</i> ✓ VSP <i>Persea hexagona</i> ✓ VSP <i>Acacia stereophylla</i> ssp. <i>stereophylla</i> ✓ <i>Dodonaea pifolia</i> ✓				<i>Homalocalyx nervabundus</i> (VSP) ✓ <i>Trachym cyanop</i> ✓ <i>Waitzia citring</i> ✓ <i>Vellaea cycnopot</i> ✓ <i>Trachym ornata</i> ✓ <i>Rhodanthe laevis</i> ✓ <i>Blennospora drumm</i> ✓ <i>Lobelia gibbosa</i> ✓ <i>Thysanotus mangles</i> ✓ <i>Mitrasacme paradox</i> ✓				<i>Drosera glanduligera</i> 12/8 ✓ <i>Cheilanthes austro-ten</i> 12/8 ✓ <i>Drosera macrantha</i> (white) 12/8 ✓ <i>Caladenia flava</i> 12/8 ✓ <i>" reptans</i> 12/8 ✓ <i>Dodonaea ? diatocarp</i> 12/8 ✓ <i>Centrolepis drummond</i> 12/8 ✓ <i>Centrolepis aristata</i> ✓ <i>Hydrocotyle sp</i> 12/8 ✓ <i>Hypochaeris glabra</i> 12/8 ✓			

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa (ML) SITE NUMBER 12
 DATE TRIP 23/10/1998 RECORDERS NG/GK
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



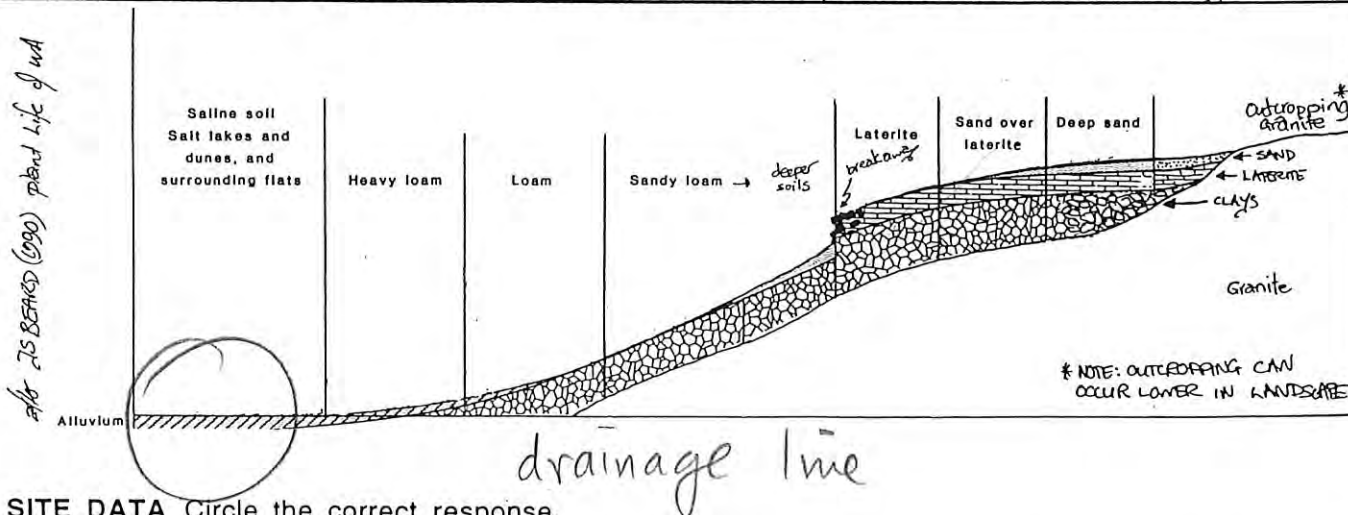
Road Location MUNA RD

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____

Photograph _____ Photographer's Name NG Photo No 3

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 clay Colour red-brown
 Exposed rock type _____ % surface none

Sub-surface Soil clay Colour grey-brown
 Rock type _____ depth to rock >1m

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

Litter twigs 10/20% cover
 Depth 2 cm cm
 Bare Ground 30/50 %cover

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

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 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					20/30 Halosarcia halarn Frank paucifl
GRASSES		HERBS	SEDGES		
			over 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20	2/10			
DOMINANT SPECIES	Paraphloisina (Sarcocolla)	Linoph acic			

4. VEGETATION CONDITION

Comments

good salivation / grazing

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No ML 12

Date 23-10-98

12-8-1999

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
MALLEES				GRASSES				SEDGES			
SHRUBS				HERBS							
			Halosarcia halocnem				Senecio glossanth				
			Frankenia paucifl				Cotula cotuloides				
			Frankenia diorexia				Trigloch mucronata				
			Halosarcia indica				Crotalaria cretaria				
			Halobidion ssp. indus				Spergularia rubra				
							Gnephosis zactis acic				
							" sp. cassiniana				
							Trigloch minutiss				
							" (real) calcitrapa				
							Trich strobilifera				

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa (ML) SITE NUMBER 13
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 DATE TRIP 23-10-1998 RECORDERS GJK/W
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



Road Location

Indara NR

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

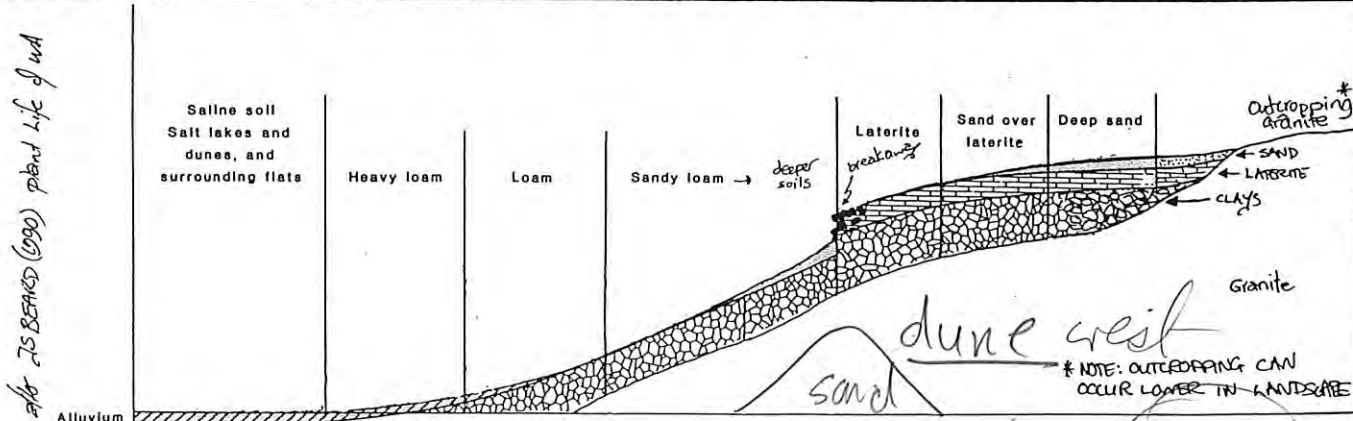
Photograph

Photographer's Name

NG

Photo No 2

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 yellow
 Exposed rock type none % surface 0

Sub-surface Soil sand Colour yellow
 Rock type _____ depth to rock > 2m

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

Litter lvs, twigs % cover 30/50 Bare Ground 30/70 % cover
 Depth 2-5 cm

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

3. VEGETATION STRUCTURE AND COVER

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 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM			 		
COVER CLASS (%)					
DOMINANT SPECIES					

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 				
COVER CLASS (%)	10/20	2	2/10		20/10/20
DOMINANT SPECIES	<i>Banksia scaptrum</i> <i>Xylom angust</i>	<i>Grevillia</i>	<i>Schoptzia</i> <i>Allocas camp</i>		<i>Cornesp. stoech</i> 2m <i>Md. acro</i> 1m <i>Pit. pedunc</i> <i>Calytrix (pink)</i> " yellow

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2	2			10/20
DOMINANT SPECIES					<i>Ecdicof mon</i> <i>Mesomelana p</i>

4. VEGETATION CONDITION

Comments

Comments
excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No MC 13
Date 23/10/98
12-8-1999

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

same

20720

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
~~Banksia scopulorum~~				~~Lechenanthia juncea~~							
				~~Petrophile conifera~~	usp	✓					
				~~Melaleuca juncea~~				~~off uncinata~~			
				~~3 can. ii.~~				~~tilifolia~~			
				~~Scoralea sp. sterile 23/10~~							
MALLEES				GRASSES							
~~Xylomelon angust~~				~~Plectrachne (sterile)~~							
				~~as MBI/02 = MBI/12~~							
				~~Triodia longifolia~~							
SHRUBS											
~~Allocas campestris~~								SEDGES			
~~Comesperma scop~~								~~Mesomelaena preiss~~			
~~Pileanthus peduncul~~	usp	✓		~~didymobotrya ssp involuta~~				~~Ecdiocola mono~~	usp	✓	
~~Brevillea integr~~	✓	✓		~~microflorum~~	usp	✓		~~Lepidobol chaltac~~			
~~Comesperma steech~~											
~~Persea acicularis~~	usp	✓		HERBS							
~~Verticordia stelligera~~	usp	✓		~~robustus~~							
~~Brevillea~~				~~stylid repens~~				~~12/8~~			
				~~Colostylis vesicosa~~	usp	✓		~~Eranthis ebracteata brachyph~~	12/8	usp	✓
~~Calytrix (yellow) depressa~~	usp	✓		~~Tricoryne tenella~~				~~Wumbia (fts) dilatata~~			
~~" (pink) thwaitesii~~	usp	✓		~~Acanthocarpus (cann)~~				~~Thysanot + pat/mang~~	12/8		
~~Scholtzia ? brown sp Eucalypt~~	usp	✓		~~Corynotheca micrantha~~				~~Geleznowia verrucosa~~	12/8		
~~Melaleuca ? psammophila~~	usp	✓		~~Thysanotus (as MBI/3)~~				~~Drosera menzies thysan~~	12/8		
~~Hibbertia conspicua~~	✓	✓		~~Wumbia~~				~~Murchisonia fragrans~~	12/8		
~~Cassytha~~				~~Ilva pubescens (12/9)~~	usp	✓		~~Schoenus latitans~~	12/8		
~~Daviesia divaric~~	✓	✓						~~Beyeria (fts) gardneri~~	12/8	usp	✓
~~Calothamnus nleph~~				~~Malleostemon hursthousei~~				~~Drosera stolonifera~~	12/8		
~~Microstylis (Baele)~~	✓	✓						~~ssp humilis~~			
~~Halganlia~~											
~~Baele (white)~~	✓	✓									

? sp Murchisonia MBI 12009

~~Baele ? patagon~~ sp Wallhaway
= Thymonema baeleaceum

~~Drosera pulchra ssp pulchra~~

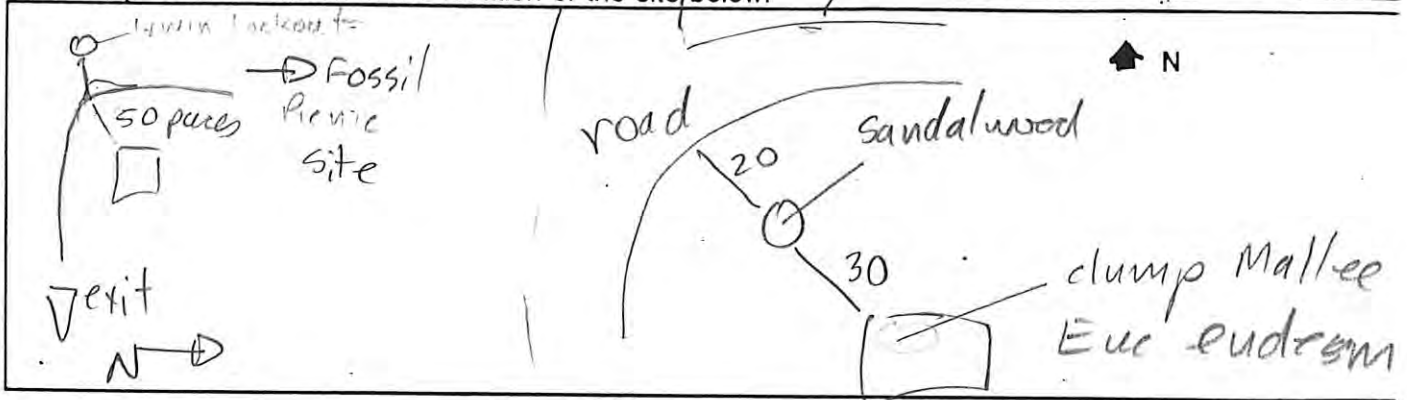
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Muellwag SITE NUMBER 14
 DATE TRIP 22-10-1998 RECORDERS NG/GK
 DATE TRIP 13-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

Mud 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 64 Nedlands WA 6008.



Road Location Coalseam - Cons PK

Geographic Location Latitude 28 56 52.0 S Longitude 115 32 55.3 E Altitude

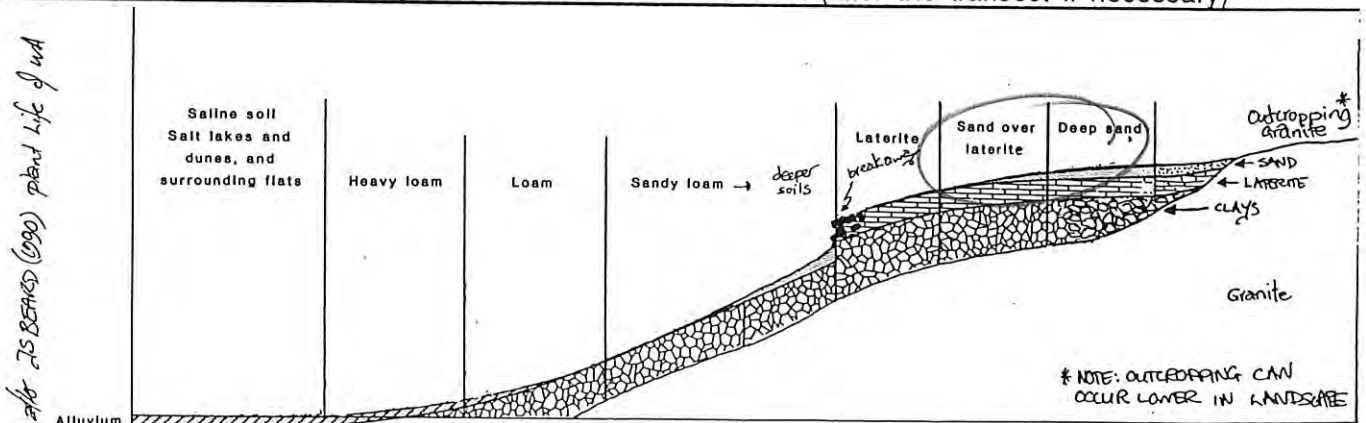
Reference Map ANG-358563, 6796922

HDDP 3.0

Photograph Photographer's Name NG

Photo No 31

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 red
 Exposed rock type none % surface

Sub-surface Soil ? laterite/perman Colour
 Rock type depth to rock

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

Litter 30/50 % cover
 logs 10/5 Depth 2-5 cm
 Bare Ground 30/50 % cover

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

3. VEGETATION STRUCTURE AND COVER

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 15m	5-15m	under 5m	over 8m	under 8m	
LIFE FORM					 30m 10m
COVER CLASS (%)					10/20
DOMINANT SPECIES					<i>Euc. rudens</i>

SHRUBS				SHRUBS	
over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m	
LIFE FORM					 2m 1m
COVER CLASS (%)	10/20				20 10/20
DOMINANT SPECIES	<i>Acac. acum</i>				<i>Mitelia</i> <i>Opac. spermac</i>

GRASSES		HERBS		SEDGES		over 0.5m		under 0.5m	
LIFE FORM									1m
COVER CLASS (%)	2/10	30/50							
DOMINANT SPECIES	<i>Stipa trich</i>	<i>Podol. canes</i> <i>lauren - daj</i> <i>Schoen. cass</i>		<i>rosea</i>					

Act. mob. ulig

4. VEGETATION CONDITION

Comments

excellent - very good

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

Label each plant with plants number, site code, date and plant's name or working name if required

SITE No	ML 14
Date	22-10-98
	13-8-1999

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

name if required
Euc. loxophleba

• Column 4 Identification check															
TREES				SHRUBS (cont.)				HERBS (cont.)				No	FI	ID	
			</												

sp Bungalbin
22/10

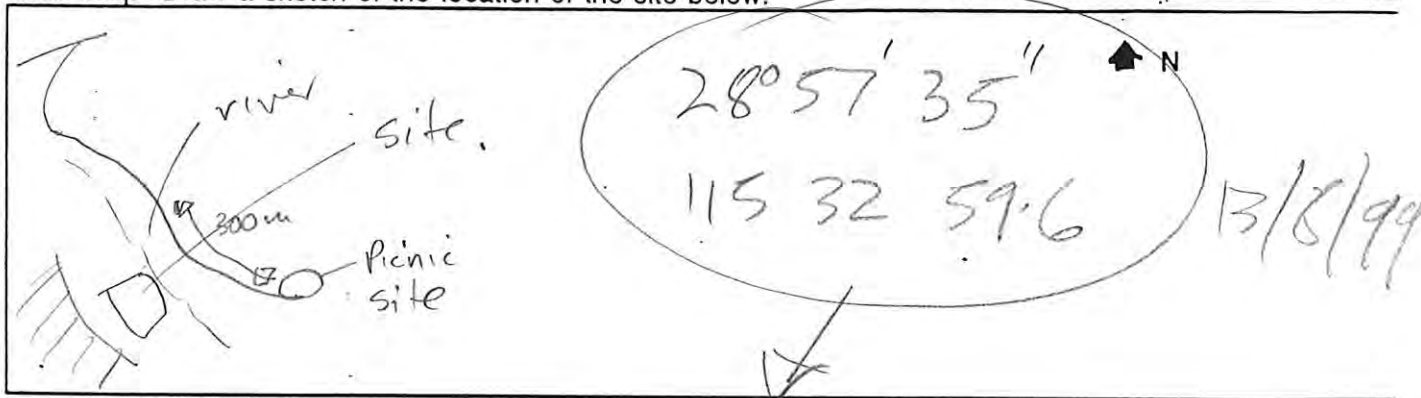
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa SITE NUMBER 15
 DATE TRIP 22/10/98 RECORDERS NG/GK
 DATE TRIP 13-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

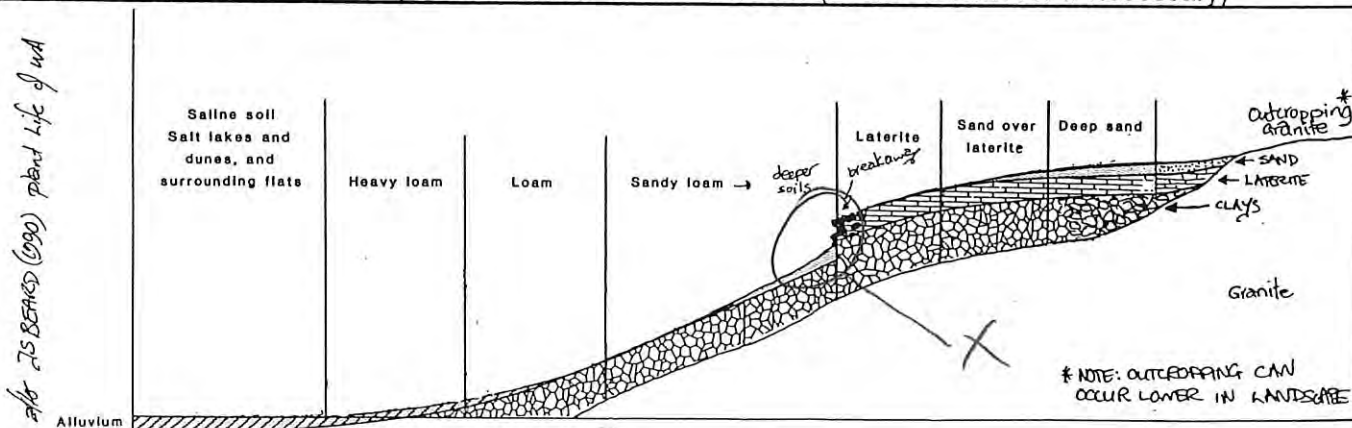


Road Location Coalseam Rd, Coalseam

Geographic Location Latitude 28° 58' 22.6" S Longitude 115° 32' 59.6" E Altitude
 Reference Map 302

Photograph Photographer's Name NG Photo No 32

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



2. SITE DATA Circle the correct response.

Slope	flat	gentle	<u>steep</u>	Aspect	N	NE	<u>E</u>	SE	S	SW	W	NW
Surface Soil	<u>skeletal clay</u>							Colour	<u>red-brown</u>			
Exposed rock	<u>type laterite</u>							% surface	<u>40/60</u>			
Sub-surface Soil	<u>laterite</u>							Colour				
Rock	<u>type</u>							depth to rock	<u>2-20 cm</u>			
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	logs	twigs	lvs	% cover	<u>30/50</u>	Bare Ground	<u>30/50</u>	%cover				
	Depth				cm	<u>2-10</u>						

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

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species in each					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		2-10			
DOMINANT SPECIES		<i>Euc. loxoph</i>			
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	adj			2-10	30/70
DOMINANT SPECIES	<i>Ac. acumin</i>			<i>Ac. tetrag</i> <i>latipes</i>	<i>Gunnopsis septi</i>
GRASSES		HERBS	SEDGES	over 0.5m	
				under 0.5m	
LIFE FORM					
COVER CLASS (%)	2/10	30/50			
DOMINANT SPECIES	<i>Stipa eleg</i>	<i>Mesembry. nor</i> <i>Atriplex</i>			

4. VEGETATION CONDITION

Comments

very good

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No ML15

Date 22-10-1998

13-8-1999

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

Working Name If Required
115 33 00. 4

2. 0

[illegible]

[Rumex - dock - adg] — Rumex vesicarius

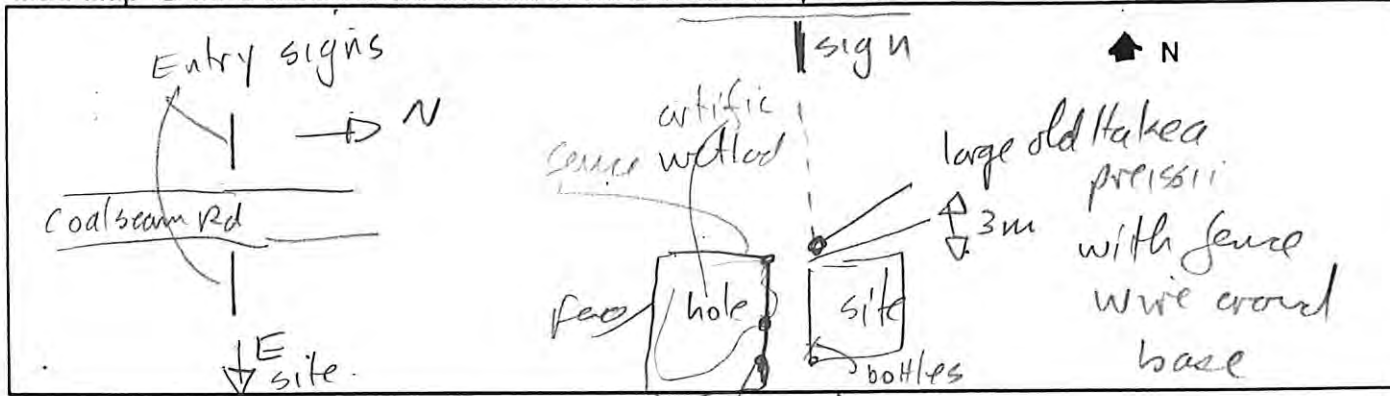
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa SITE NUMBER 16
 DATE TRIP 22/10/98 RECORDERS NG/GK
 DATE TRIP 13-8-1999 RECORDERS NG/GK/ANW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

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

1. LOCATION of the QUADRAT

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



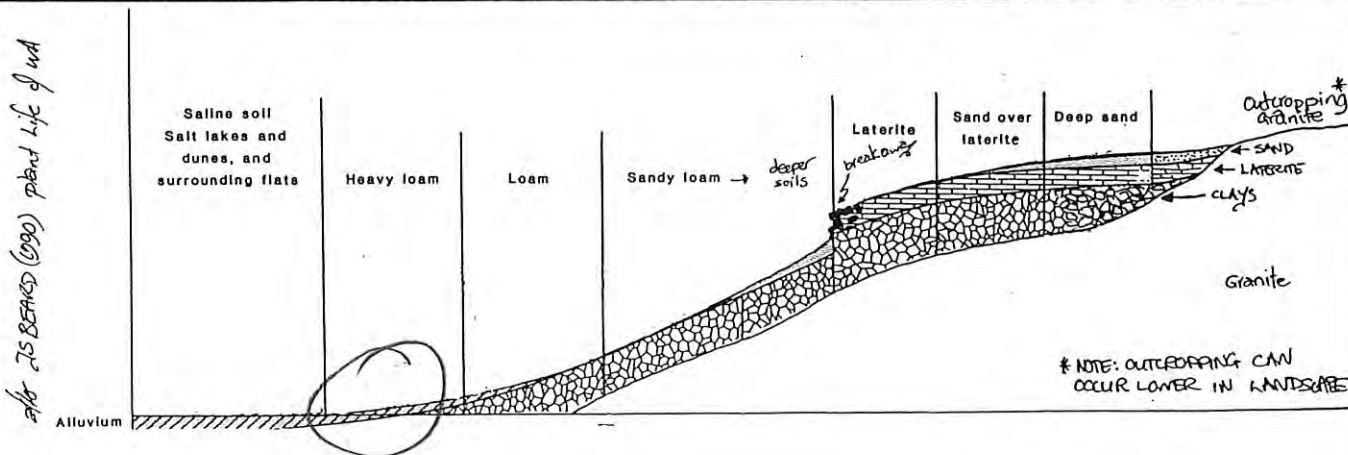
Road Location Coalbeam Rd; Coalbeam CP

Geographic Location Latitude 28 58 22.8 S Longitude 115 32 48.1 E Altitude

Reference Map AMIG - 358403, 6794125 3.0

Photograph Photographer's Name NG Photo No 33

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 clay Colour grey brown

Exposed rock type _____ % surface _____

Sub-surface Soil clay Colour _____

Rock type _____ depth to rock _____

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

Litter little % cover _____ Bare Ground NONE % cover _____

Depth _____ cm 30% surface in spring

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

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below), and dominant species					
Cover Class		2-10%	10-30%	30 - 70%	over 70%
TREES					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)	adj				
DOMINANT SPECIES	2-10 <i>Hakea pinnata</i>				
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30/70	20%	70/90		
DOMINANT SPECIES	<i>Amphibromus</i>	<i>Isotoma pusilla</i> <i>Damasonium</i> <i>Marsilea</i>	<i>Eleocharis acutis</i> <i>Isolepis</i>		

4. VEGETATION CONDITION

Comments

good

adly

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

13 - 8 - 1999

name if required
Euc loxophleba

SEDGES *all*
S. sp. *atlant.*
Eleocharis aculeata

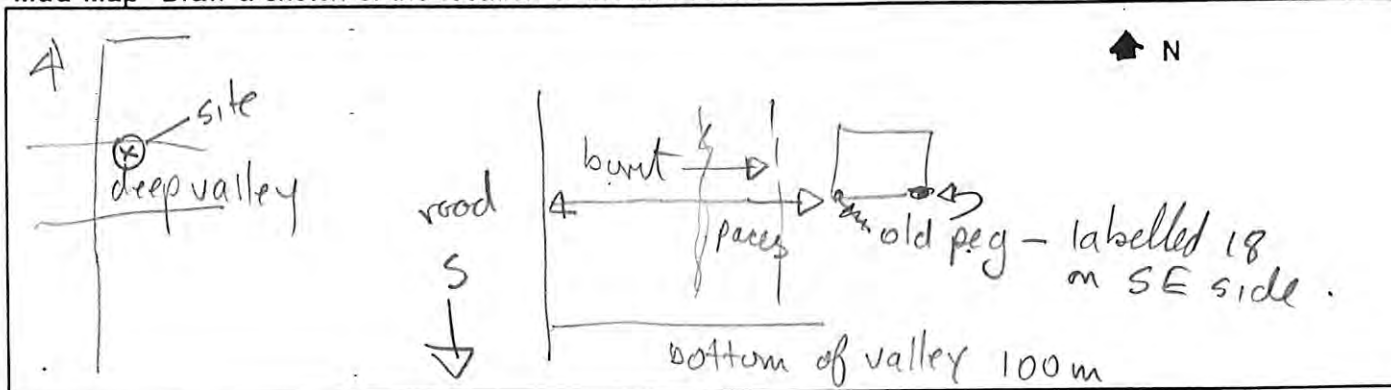
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa SITE NUMBER 17
 DATE TRIP 23/10/1998 RECORDERS GK/NG
 DATE TRIP 13-8-1999 RECORDERS GK/NG/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

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

1. LOCATION of the QUADRAT

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



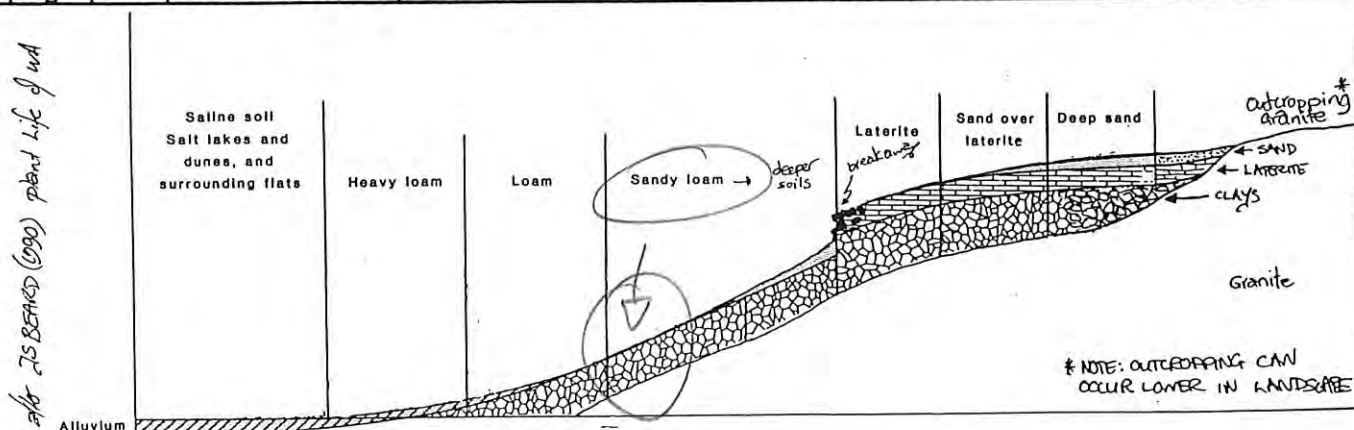
Road Location Burma Rd

Geographic Location Latitude 28 59.27.2 S Longitude 115 03 28.1 E Altitude 2.2

Reference Map AMG - 310794, 6791458

Photograph Photographer's Name NG Photo No 35

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 yellow
 Exposed rock type % surface

Sub-surface Soil sand Colour yellow
 Rock type depth to rock

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

Litter twigs, lvs % cover 10 Bare Ground 10/20 % cover
 Depth 2/5 cm

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

3. VEGETATION STRUCTURE AND COVER

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

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 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)			20/30		
DOMINANT SPECIES			<i>B. prionotes</i>		
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10/20/30		10/20	
DOMINANT SPECIES		<i>Banks. alternata</i> <i>Hakea trifurcata</i>		<i>Corosp. tripl</i> <i>Mel. acroba</i>	
GRASSES		HERBS	SEDGES	over 0.5m	
				under 0.5m	
LIFE FORM					
COVER CLASS (%)	10/20	2/10		10/20/30	
DOMINANT SPECIES	<i>Neracoe</i>	<i>Trachym. pilosa</i> <i>Haemodorum</i>		<i>Mason p. press</i> <i>Schreurs</i> <i>Loxocarya asper</i>	

4. VEGETATION CONDITION

Comments

very good - excellent
heavy bunny grazing

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

same

5. SPECIES PRESCENCE

Label each plant with plants number, site code, date and plant's name or working name if required

SITE No ML17
Date 23-10-98
13-8-1999

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Banksia prionotes								Pterochaeta pinnis			
								Stylidium ? elongatum			
								Drosera stolonifera			
								Podochilus angust			
								Hydrocotyle			
								Millotia			
MALLEES				Danthonia (lge)				Arctotheca calend			
				GRASSES				Lobelia gibbosa			
				Danthonia (hairy)	✓	✓		Caladenia			
				Stipa maculip				Conostylis (lge as Mi) - robusta			
SHRUBS				Stipa elegantiss				Anagallis arven			
Banksia attenuata	✓			? Amphipogon skide				Branthura microp			
Itaken tri. Gracala				Mercurialis alope				SEDGES			
Conospermum triplinervum	✓	✓	usp	Aira caryoph				Loxocarya aspera			
Grevillea didymobotrya	✓	✓	if	Vulpia myuros				Mesomelaena preissii			
Melaleuca acutifolia	✓	✓		Stipa				Lepidosp angust brun			
Hibbertia verrucosa	✓	✓						Lylginiid barthala			
Gompholobium tom	✓	✓		HERBS				Lepidobolus			
Daviesia divaric				Waitzia (suart) acum				Schoenus nanus			
				Trachymene pilosa				Ecdicolea monost			
				Ursinia anthem				Schoenus claudet			
				Waitzia ? nitida							
				Wahlenb. preiss							
				Hypoch glabra							
				Lechenh stip							
				Thysanot thyrsoideus	✓	✓		Drosera stolonifera	13/8		
				Levenhook pusilla				Caladenia lhaui	13/8		
				Quinetia urvill				Pyrorchis nidricans	13/8		
				Drosera sp byme				Gompholobium tomant	13/8		
				Haemodorum discolor				(Drosera glandulig	13/8		
				Thys paterson							

Wahlenb. cufensis

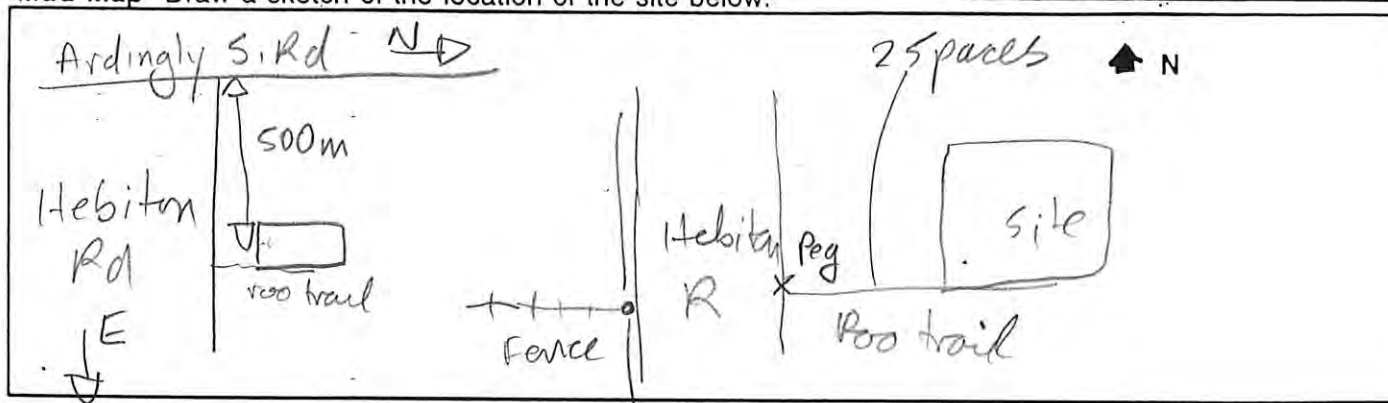
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa SITE NUMBER 18
 DATE TRIP 23/10/1998 RECORDERS NG/GK
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



Road Location

Hebiton Rd.

Geographic Location Latitude 28 49 36.8 S Longitude 115 26 44.8 E Altitude 202

Reference Map AMG - 348357, 6810190

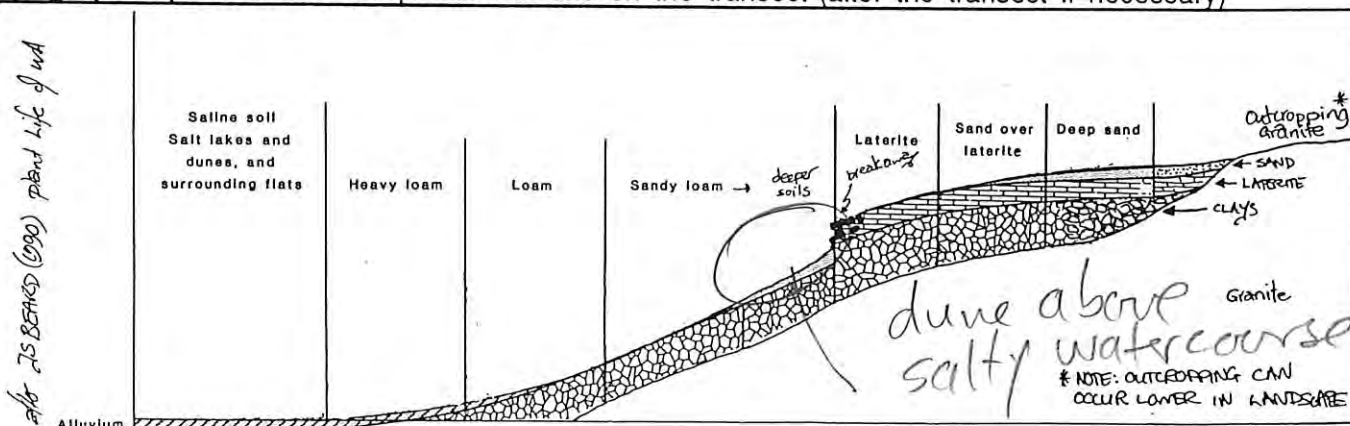
Photograph

Photographer's Name

NG

Photo No 38, 1

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 red
 Exposed rock type _____ % surface _____

Sub-surface Soil sandy loam Colour red
 Rock type _____ depth to rock > 50cm

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

Litter twigs, lvs, dead annuals % cover 30/50 Bare Ground 10/20 %cover
 Depth 2/5 cm

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

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					10/20
DOMINANT SPECIES					<i>Euc. eudesm</i>
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/30		2		
DOMINANT SPECIES	<i>Acac. neuroph</i> <i>Bursaria occid</i>		<i>Pim. microc</i> <i>Mel. cordata</i>		
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20	30/50			
DOMINANT SPECIES	<i>Stipa</i> <i>Stipa eleg</i> <i>Monardella</i>	<i>Waltzia acut</i> <i>Lawrencea</i>			

4. VEGETATION CONDITION

Comments

very good - excellent

20x20

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

12-18-1999

same

[illegible]

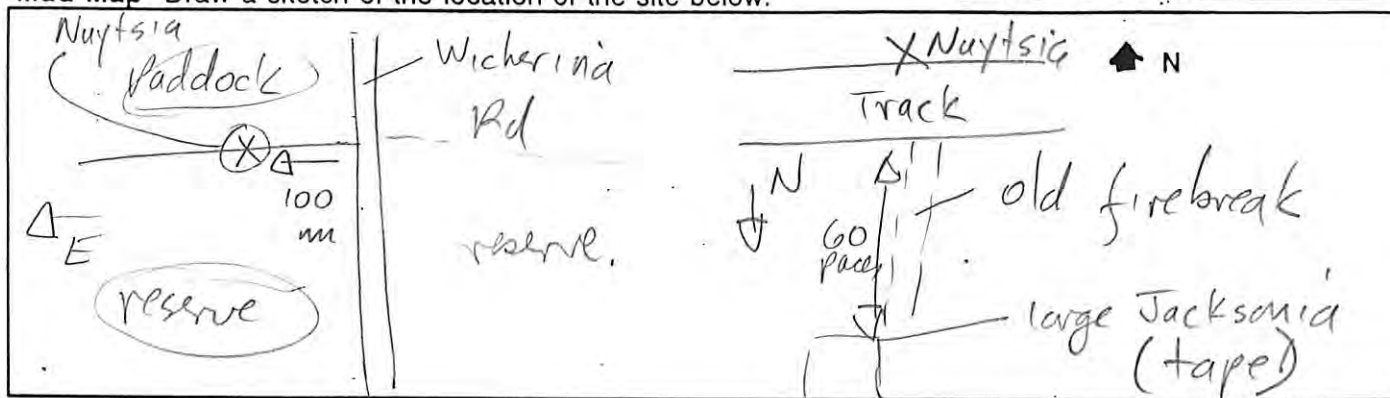
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA MULLEWA SITE NUMBER 19
 DATE TRIP 23/10/1998 RECORDERS GK/NG
 DATE TRIP 15/8/1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



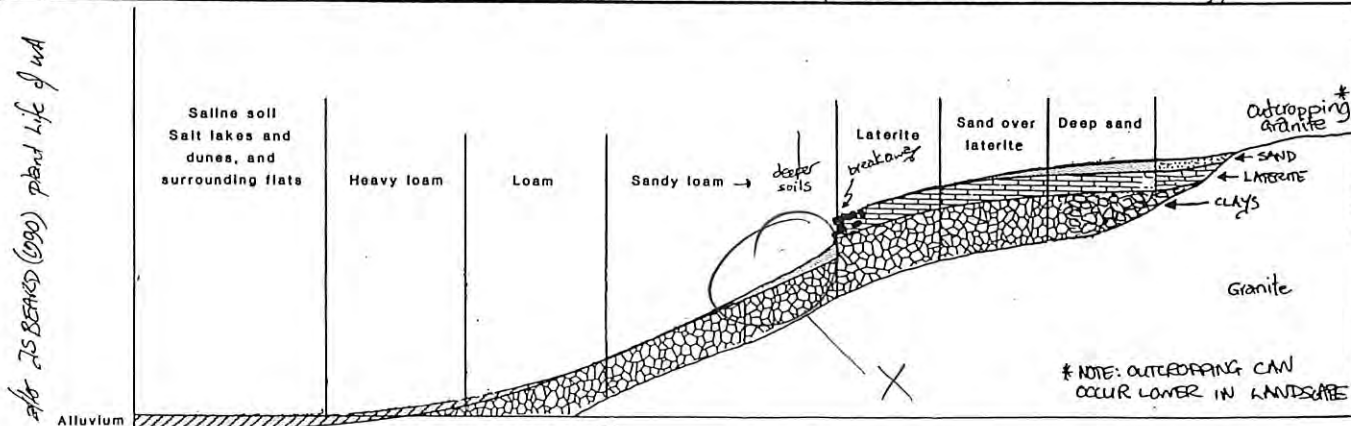
Road Location Wicherina Rd

Geographic Location Latitude 28 44 36.1 S Longitude 115 00 53.1 E Altitude 1

Reference Map AMG - 306140, 6818796

Photograph Photographer's Name NG Photo No 4(4)

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 cream
 Exposed rock type _____ % surface _____

Sub-surface Soil sand Colour yellow-cream
 Rock type none depth to rock _____

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

Litter lvs, twigs % cover 50/70 Bare Ground % cover _____
 Depth 2/10 cm

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

3. VEGETATION STRUCTURE AND COVER

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 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2	50/70		2-10	
DOMINANT SPECIES	Jacksonia	Banksia laeta Petro. eric		Hibb hyp Eremalall Petro. shuffew	

GRASSES		HERBS		SEDGES	
	over 0.5m			over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2/10	2/10			2/10
DOMINANT SPECIES	Stipa eleg Nemach. alopecur Stipa mac	Laxmann			Loxocarya aspera

4. VEGETATION CONDITION

Comments

very good - excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No ML 19

Date 23-10-1998

15-4-1999

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 Identification check

[illegible]

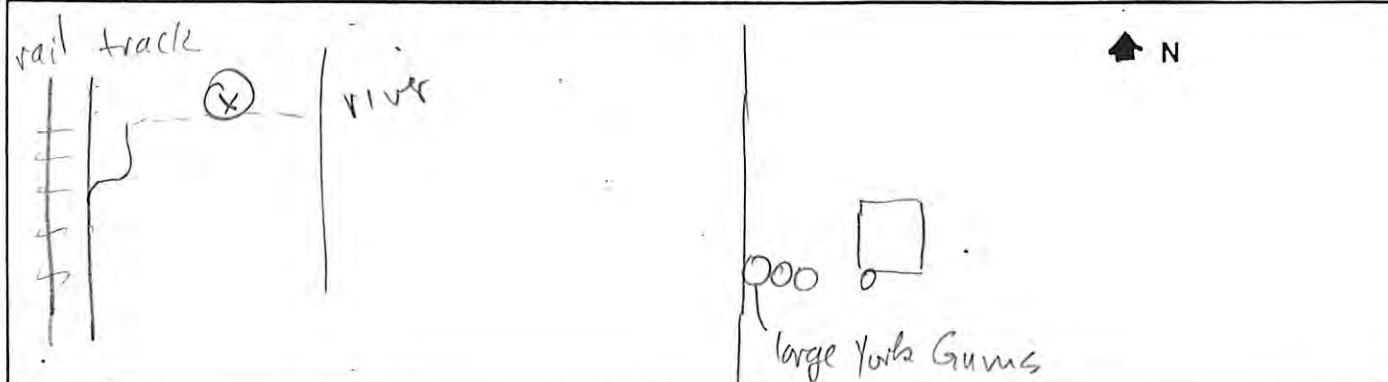
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa SITE NUMBER 20
 DATE TRIP 24/10/1998 RECORDERS NG/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

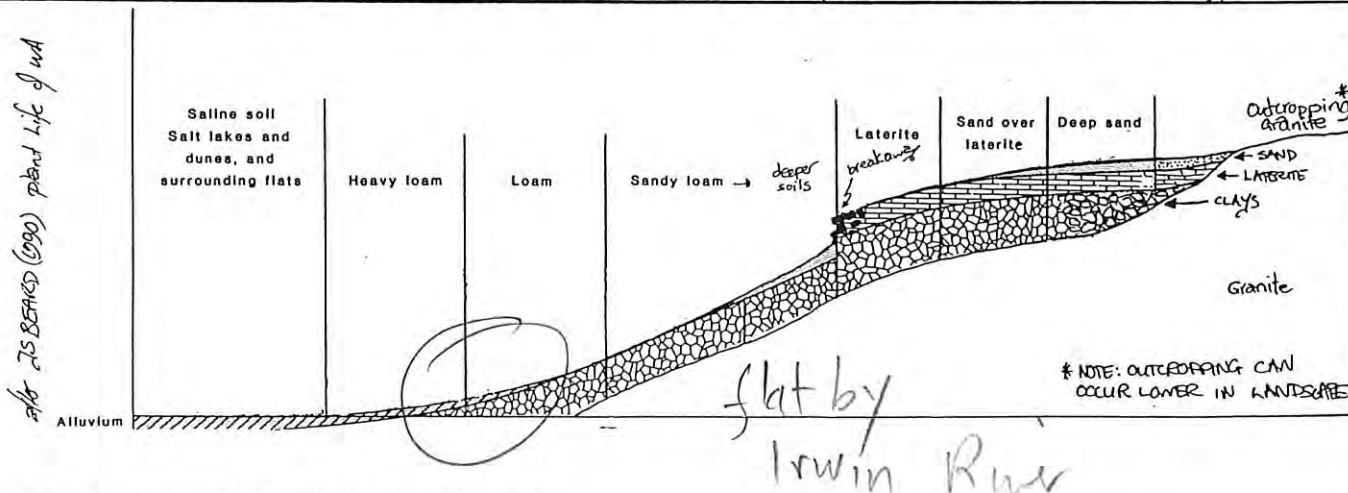


Road Location Mingenew Nature Reserve

Geographic Location Latitude 29 10 56.1 S Longitude 115 24 49.9 E Altitude 3.0
 Reference Map AMG - 345771, 6770770

Photograph _____ Photographer's Name NG Photo No 5

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 clay Colour red - brown
 Exposed rock type none % surface none

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

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

Litter twigs, vch, leaves % cover 30/50 Bare Ground 30/50 % cover
 Depth cm 2-5

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

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	10		10		
DOMINANT SPECIES	<i>E. loxophylla</i>		<i>Ac. acumin</i>		
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	20/30			10/20	< 2
DOMINANT SPECIES	<i>Hakea reurna</i> <i>Ac. tetragon</i>			<i>Olarra x</i> <i>Pimelea micr</i> <i>Scaevola spin</i>	
GRASSES		HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)	10	30/50		< 2	
DOMINANT SPECIES	<i>Stipa eleg</i> <i>Aira coryph</i>	<i>Wairg. acun</i> <i>Borja</i> <i>Laurenc. daven</i>			

centaur. melit
Pogonolepis.

4. VEGETATION CONDITION

Comments

very good - some rubbish, patches
weeds close - grazed in
past. fence posts cut

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20x20

5. SPECIES PRESENCE

SITE No ML 20

Date 24/10/1998

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

same
crassula decumbens

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. toxophleba			✓					Centrosepals humill			
Acacia acuminata			✓					Bulbinia semibarbata			
								Petrophagia velut			
								Calandrinia calyptrata	✓		✓
								Crassula color varicosa	✓		
								Dianella revol			✓
								Rhodanthe laevis			✓
								Calotis multica			✓
								Erod cyanor			✓
								Gynandris (1) setifolia			
								Calandrinia granul			
								Philotus mangreri			✓
								Pogonolepis mulleriana			
								SEDGES			
								Brachycome perpusilla	13/8		
								Plantago off hispida			
								Centrosepals ? arist	13/8		
								Gnephosis tenuissima			
								Crassula pedicellata	13/8		
								Gilbertia tenuif			✓
								Podotrocha anaph			
								Caladenia hirta, pink	13/8		
								Hyalospermum demiss	13/8		
								Spharoccephalus	13/8		
								Velleia cynopos	13/8		
								Thys. mangreri	13/8		
								Osteospermum claudes	13/8		
								Laurenciella reer	13/8		
								Gorteria	13/8		✓
								Arctotheca calend	13/8		
								Burchardia condola	13/8		
								Drosera glandulifera	13/8		

? Cent mel = this 13/8

Gnephosis acicular 24/10

Hoodia herodiana 13/8 + 24/10

Hypoxis leptantha 13/8

Rhodanthe holocarpa 13/8

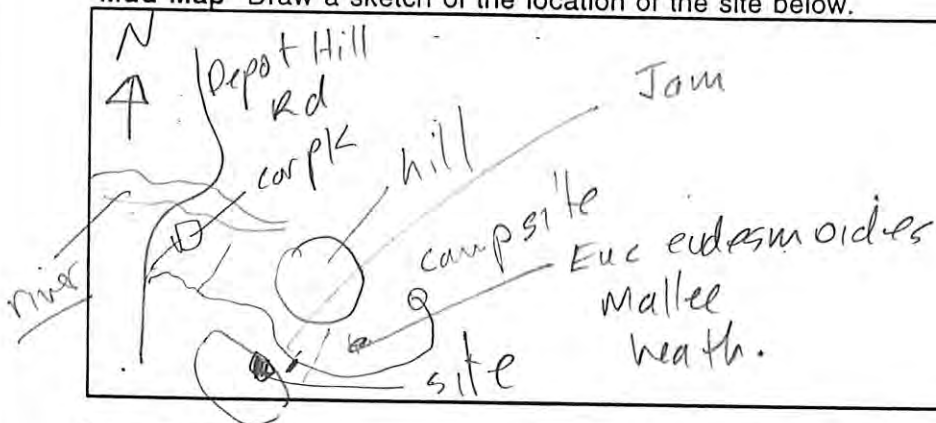
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa (ML) SITE NUMBER 021
 DATE TRIP 24/10/1998 RECORDERS GK/NG
 DATE TRIP 13-8-1999 RECORDERS GK/NG/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



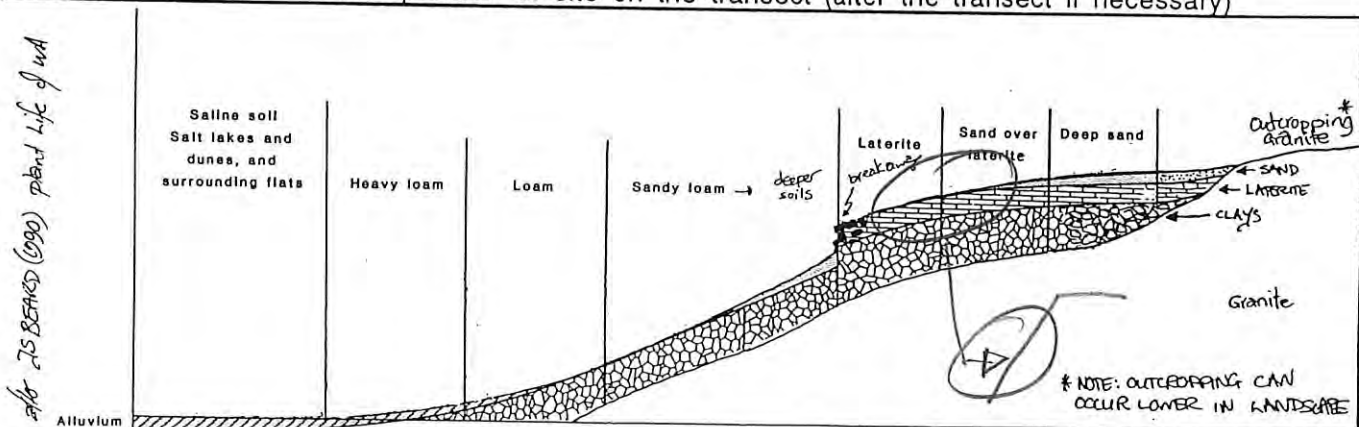
Road Location Depot Hill Rd

Geographic Location Latitude 29 08.43.0 S Longitude 115 21 05.8 E Altitude 210

Reference Map AMG - 339662, 6774784

Photograph Photographer's Name NG Photo No 6

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 red-brown

Exposed rock type sandstone % surface 20/30

Sub-surface Soil sandy loam Colour red-brown

Rock type _____ depth to rock _____

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

Litter logs, twigs % cover 40 Bare Ground 20/30 %cover

Depth 12-20cm

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

3. VEGETATION STRUCTURE AND COVER

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

TREES				MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					2/10
DOMINANT SPECIES					<i>Euc. padresm</i>

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	20/30	2/10	10/20/30		
DOMINANT SPECIES	<i>Alloc. campst</i> <i>Mel. uncinata</i> <i>Ac. tetragon</i>		<i>Schottzia</i>		

GRASSES		HERBS	SEDGES	SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2	30			2
DOMINANT SPECIES	<i>Stipa eleg</i> " <i>trichophyll</i>	<i>Pod. gnaph</i> <i>Warrig. adum</i>			<i>Loxocarya aspera</i>

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name

- Column 2 plant number

• **Column 3** **flowering time-** TICK if species flowering

- **Column 4** **identification check**

Euc. eudesm -

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				tetragoaphylla ✓ ~~revelata~~ (VSP)				Petrophagia velut ✓			✓
MALLEES											
Euc. endlesm (ov/h) ✓				GRASSES							
Thyridopterae baccharis ✓				Stipa elegantiss ✓ " trichophyll ✓							
SHRUBS				Erbarta ? longif ✓							
Allocas campestris ✓				Aira coryophyll ✓							
Micromyrtilus ✓				Vulpia myrtilloides ✓				SEDGES			
Acacia tetragonophyll ✓				Avena hirsuta ✓				Loxocarya asper ✓			
Metalluca canem ✓				sp. nov (West Coast) ✓							
Acacia latipes ambrosii ✓ (VSP)								calyptata ✓			
Comestepma integr ✓ (LBO)				HERBS				Calandrinia trif. ✓	13/8		
Sida calyxym ✓				Waitzia acum ✓ (white + yellow fls)				Godeuma berardiana ✓	13/8		
Clema-ocistus ang ✓				Dioscorea hastifol ✓				Brachysema aphylla ✓	13/8		
				Radothea graph ✓				Anagallis orulexis ✓	13/8		
				Hypoch glabra ✓				Thysanotus manglesi ✓	13/8		
				Ursinia anthem ✓				Sonchus olerac ✓	13/8		
				Trachym cyanop ✓				Paranthera microphylla ✓	13/8		
				Lawrencella divers ✓				Osteospermum cilahid ✓	13/8		
				Cheilanthe - austro-id ✓				Frodium cygnorum ✓	13/8		
				Wallenbergia prussu ✓				Hydrocotyle piliola ✓	13/8		
				Lohelia gibbosa ✓				#libbertia polystachya ✓	13/8		(V)
				Silene gallica ✓							

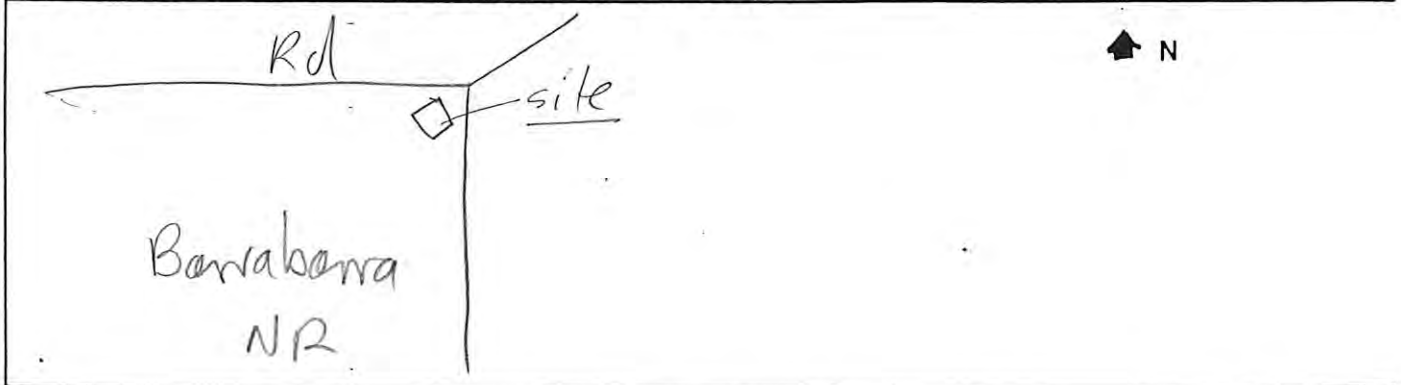
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mullewa (ML) SITE NUMBER 22
 DATE TRIP 26/10/1998 RECORDERS NG/GK
 DATE TRIP 13-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



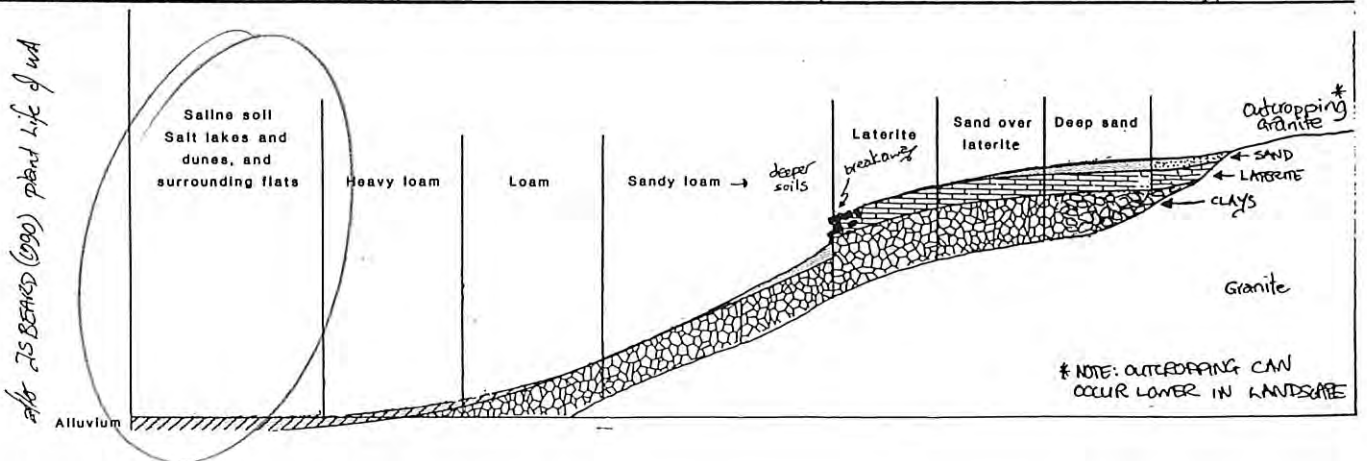
Road Location Barrabarra NR

Geographic Location Latitude 28 36 54.3 S Longitude 115 58 22.5 E Altitude _____

Reference Map AMG-399590, 6834217 201

Photograph Photographer's Name NG Photo No 24

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 loam **Colour** red brown

Exposed rock type NONE % surface _____

Sub-surface Soil loam **Colour** red brown

Rock type unknown depth to rock un/kn.

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

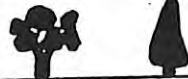
Litter logs, twigs, lvs % cover 30 **Bare Ground** 30 % cover 50
 Depth 12-10 cm

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

3. VEGETATION STRUCTURE AND COVER

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 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	2/10	2/10			
DOMINANT SPECIES	Mel	Mel			

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	50/70				30/50
DOMINANT SPECIES	Mel. uncin				Atriplex vesic
					Halosarcia

GRASSES		HERBS		SEDGES		SEDGES	
				over 0.5m		under 0.5m	
LIFE FORM							
COVER CLASS (%)	2						
DOMINANT SPECIES		Calcecephalus					
		Mesembry					

4. VEGETATION CONDITION

Comments

very good
burnt in past - lost trees
becoming more saline - Mesquite invading

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

Label each plant with plants number, site code, date and plant's name or working name if required

SITE No ML 22

Record on Sheet

Date 26/10/1998

13-81-1999

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

[illegible]

ADJ Melaluna acum inter/loc
ADJ(to S) Asterides? heteranthe (um) = Funk burros. no sens sp ✓

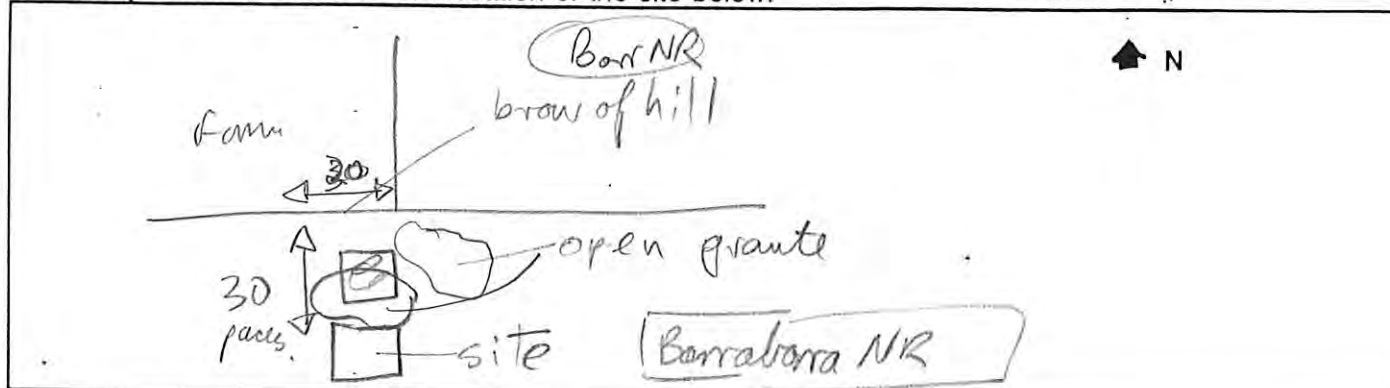
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ML (Mullewa) SITE NUMBER 23
 DATE TRIP 26/10/1998 RECORDERS NG/GK
 DATE TRIP 13/8/1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

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

1. LOCATION of the QUADRAT

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

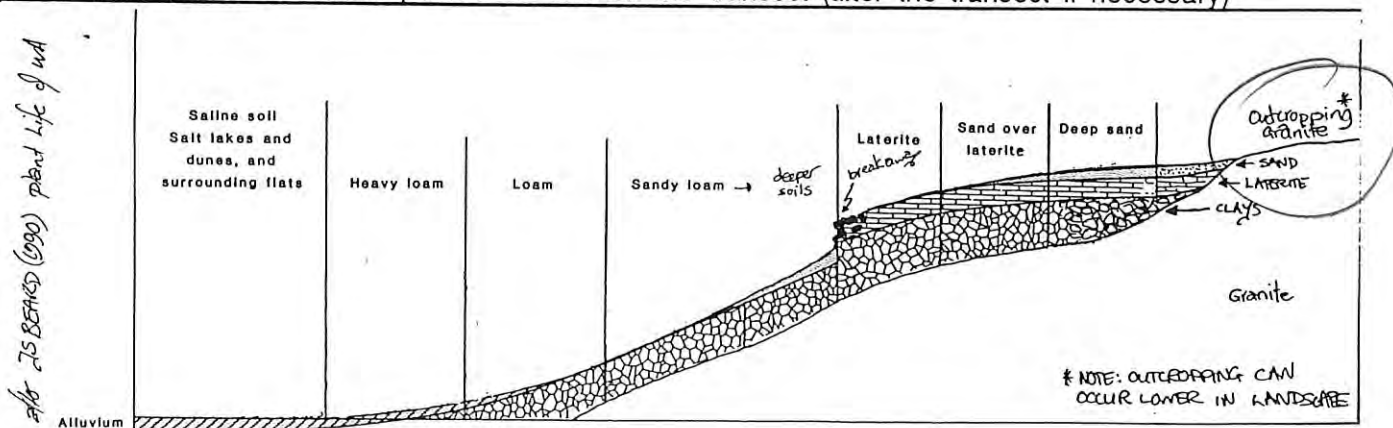


Road Location Barrabarra Rd

Geographic Location Latitude 28 36 54° 05 S Longitude 115 57 16.9 E Altitude 200
 Reference Map AMG - 397809, 6834210

Photograph Photographer's Name NG Photo No 25

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 loam Colour red
 Exposed rock type granite % surface 22

Sub-surface Soil loam Colour red
 Rock type granite depth to rock 2-20 cm

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

Litter logs / vs % cover 10/30 Bare Ground 10/20 % cover
 Depth cm

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

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species in each					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES					
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	<i>Mel. fulgens</i> 				
COVER CLASS (%)	30/50			2/10	
DOMINANT SPECIES	<i>Ac. tetra</i> <i>Thryp. aust</i> <i>Ac. bicum</i>			<i>Gravillea</i> <i>Myrbelia</i>	
GRASSES					
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10	70/90			
DOMINANT SPECIES	<i>Stipa</i> <i>Brachyp. dist</i>	<i>Borja. coarct</i> → <i>nitida</i> <i>Schoen. cass</i> <i>Heterhagis tr</i>			

4. VEGETATION CONDITION

Comments

very good - excellent
some patches grassy weeds

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No ML 23
Date 26/10/1998
13-8-1999

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
								<i>Wahlenb. preiss</i>			
								<i>Trachym cyanop.</i>			
								<i>Centrolepis aristata</i>			
								<i>Millotia</i>			
								<i>Rohelia gibbosa</i>			
								<i>Agrostis tenuis</i>			
								<i>Myrtosacme parviflora</i>			
								<i>Schoenus nanus</i>			
								<i>Drosera (macrantha - pink)</i>			
								<i>Dianella revoluta</i>			
								<i>Thysanotus speciosus</i>			
								<i>Stenopetalum lineare</i>			
								<i>Sedges</i>			
								<i>Drosera glandulig.</i>			
								<i>Calandrinia (pink)</i>			
								<i>Centrolepis humilis</i>			
								<i>Cheilanthes australis</i>			
								<i>Bulbostylis barbata</i>			
								<i>Velleia rosea</i>			
								<i>Hydrocotyle alata</i>			
								<i>Hydrocotyle medica</i>			
								<i>Italocephala glutinosa</i>			
								<i>Lantana davenportii</i>			
								<i>Thysanotus mangifera</i>			
								<i>Brunonia australis</i>			
								<i>Eremophila serrulata</i>			
								<i>Erodium cicutarium</i>			
								<i>Calotis multicaulis</i>			
								<i>Sida calythymentha</i>			
								<i>Grevillea pinnatifida</i>			
								<i>Chthonocephalus pteridifolius</i>			

Schoenus sp. annual to young 26/10

Goodenia occidentalis 26/10
Hydrocotyle calycifera 26/10

Centrolepis aristata 13/8
Cyanicula amplex 13/8
Myriocephalus surinamensis 13/8

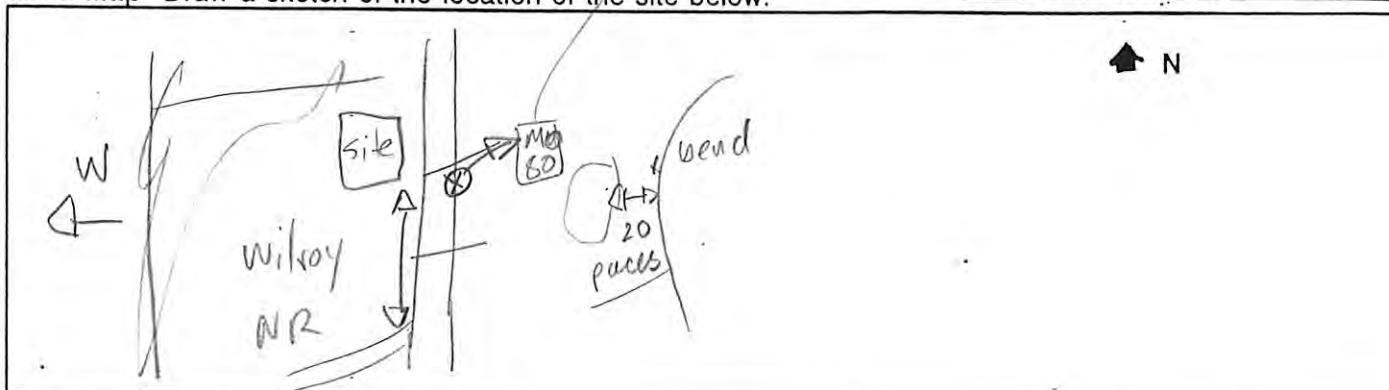
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ML (Mullewa) SITE NUMBER 24
 DATE TRIP 27-10-1998 RECORDERS NG/GK
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

Mud 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 64 Nedlands WA 6008.



Road Location

Wilroy NR

Geographic Location Latitude 28 38 01.5 S Longitude 115 38 12.1 E Altitude 3.0

Reference Map AMG - 366741, 6831820

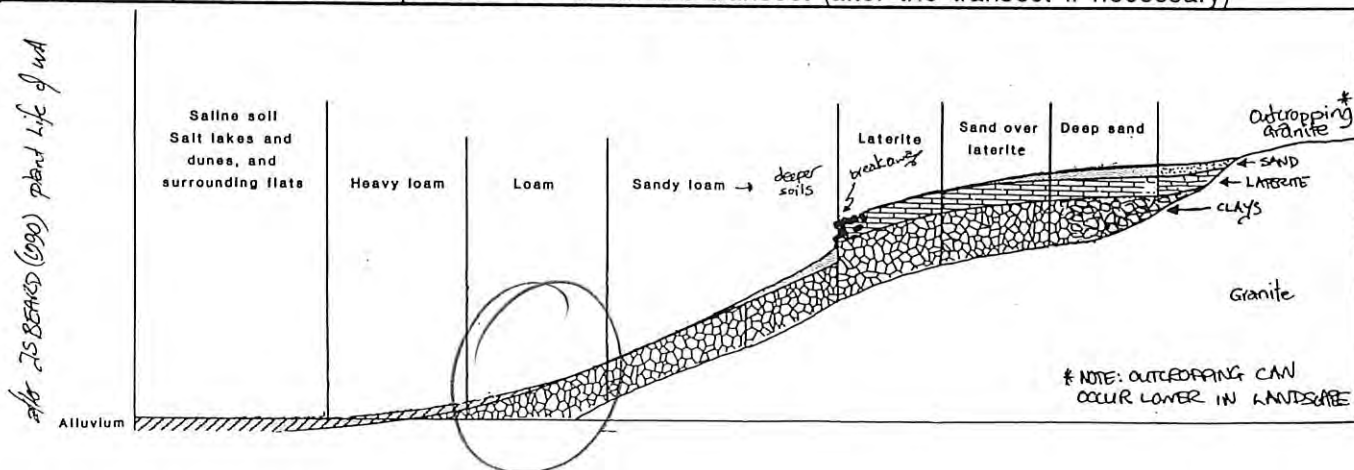
Photograph

Photographer's Name

NG

Photo No 27

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 loam Colour red

Exposed rock type _____ % surface _____

Sub-surface Soil loamy clay Colour red

Rock type _____ depth to rock _____

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

Litter twigs, lvs % cover 30/50 Bare Ground 30 % cover

Depth 2-5 cm

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

3. VEGETATION STRUCTURE AND COVER

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

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					20/30
DOMINANT SPECIES					Euc. goeudund 11 eudesm.
	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		21/10		10/20	10
DOMINANT SPECIES		Acacia Grevillea oncydium		Dav. bentham	platysace Baedkea grandif.
	GRASSES		HERBS	SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30/50		10/20		10/20
DOMINANT SPECIES	Plectrachne dactyloides Stipa trichoph		Wartzia acum Calceophalus Trachypogon		Chrysopsis distig

4. VEGETATION CONDITION

Comments

excellent

20x20 (green / vs)

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

12-8-1999

name if required
Euc1 (Smith bark, long strips, grey-brown)
few fruit

Euc2 - (basal stalks, grey rough, 1-2 m)
red buds, 100s. fruit

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
/				Patecentis aculeata 27/10				Trachymene ornata ✓			
Euc. hypochlam/hyp	✓		✓	Triodia longipalea	vsp			Lawrencella davenp ✓			✓
Euc. eudesm	✓			GRASSES				Brunonia aust ✓			
				Electraene danta	✓			Thysanot manglesii ✓			✓
				Stipa mollis humilosa (vsp)	(vsp)			Hyalosp demist ✓			
SHRUBS				Stipa trichophylla							
Daviesia bentham (opresin upper 1/2)	✓			" elegantissima							
Platysace	✓			Briza max	✓			SEDGES			
Brockea grandiflora	✓			Moracather paradoxa	✓			Chrysitrix distigmat ✓			✓
Ptilotus stirlingii	✓			Aira coryophyllea	✓			Schoenus glaberrimus (vsp) =			
Acacia acutera	✓			Vulpia myuros	✓						
Opercularia spermacoc	✓			Avena barbata	✓						
				HERBS							
				Nasturtia acumin	✓						
				Trachym cyanop							
				Gnaphalium berardiana				Cheilanthes austro-tenuif 12/8			
				Lobelia gibbosa (vsp)	(vsp)			Crassula colorata 12/8			
				Hypoch glabra	✓			Hydrocotyle piligera 12/8			
				Wahlenb preissii							
				Calocephalus - frid stiff mult. flous							
				Stenopetal lanceolate	✓						
				Ptilotus gaudich							
				Blennospor drum							
				Plantago cf hispid	✓						
				Calotis hispid							
				Podotrocha diaphal-							

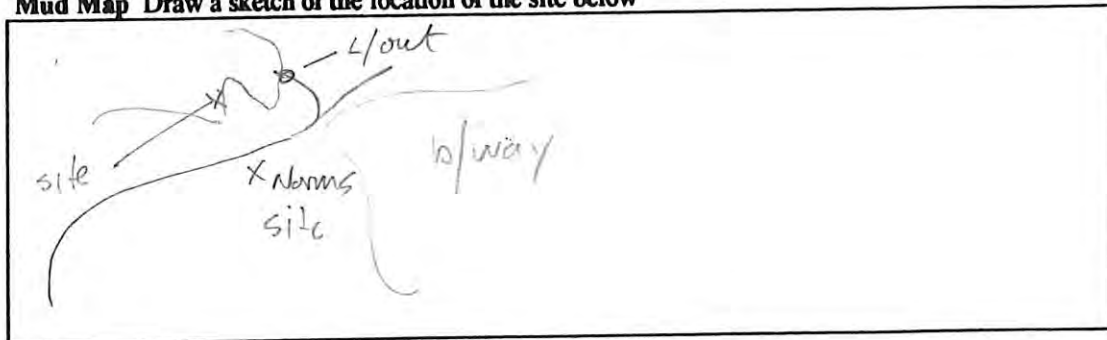
1/1/2 Evc subangust subangust

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA ML (Mullewa) SITE NUMBER 25
 DATE TRIP 27-10-1998 RECORDERS NG/GK
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location EAST YUNA NR

Geographic Location Latitude 28 24 47.0 S Longitude 115 11 59.4 E Altitude 2.6
 GPS Accuracy
 Map Sheet

Photograph Name N/G Number 31

Topographic Position (Circle the correct response)
 Upland ☐ Lower slope ☐
 Upper slope ☒ Valley ☐
 Midslope ☐ Washline ☐ b/way

2. SITE DATA Circle the correct response

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

Surface Soil sandstone-clay Depth to Rock 0-20 Colour white

Exposed Rock type laterite / quartz pebbles % surface cover 50/70 size range pebbles - 1m across

Litter vs, twigs % surface cover 10/20 Depth (cm) 2-5

Bare Ground % surface cover 70/80

AMG
 323666
 6855711

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

3. VEGETATION STRUCTURE AND COVER

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

COVER CLASS					
LIFE FORM	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
			 		
COVER CLASS (%)					
DOMINANT SPECIES					
LIFE FORM	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
	 				
COVER CLASS (%)	30/50			20/20	
DOMINANT SPECIES	M. p. uncinata			Eremophila	
LIFE FORM	GRASSES	HERBS	SEDGES	SEDGES	
			over 0.5m	under 0.5m	
	 		 	 	
COVER CLASS (%)	—	10/20			
DOMINANT SPECIES		M. p. uncinata			

4. VEGETATION CONDITION

Comments

excellent — weed mass can be
to Mesemb
very good

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No ML 25
Date 27-10-1999
12-8-1999

Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

TREES

No FI ID

SHRUBS (cont.)

No FI ID

HERBS (cont.)

No FI ID

MALLEES

SHRUBS

off

~~Melaleuca uncinata~~
~~Eremophila oppositifolia~~
Eucalyptus totm

GRASSES

Lamarkia aurea
Aira caryophyll
Vulpia myuros

HERBS

~~Mesembryanthemum nodif~~
~~Eremophyllum tenax~~
Waltzlia acuta
Podolpoca gnaph
Caloccephalus = Trichod shiro
Podolpoca canescens
Waltzlia aurea

SEDGES

Trachymene cyanoptera 12/8

Laurencella davenp 12/8

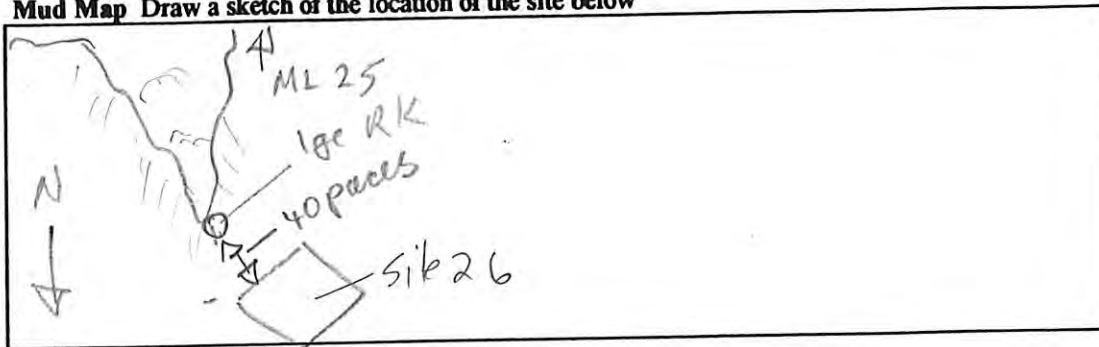
multiflora

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA ML (Mullewa) SITE NUMBER 26
 DATE TRIP 27-10-1998 RECORDERS NG/GK
 DATE TRIP 12-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location

Geographic Location Latitude 28 24 43.3 S Longitude 115 12 01.6 E Altitude 208
 GPS Accuracy _____
 Map Sheet _____

Photograph Name NG Number 35

Topographic Position (Circle the correct response)
 Upland _____ Lower slope _____
 Upper slope _____ Valley _____
 Midslope _____ Washline _____

2. SITE DATA Circle the correct response

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

Surface Soil sandy loam over clay **Depth to Rock** >50 cm **Colour** white

Exposed Rock type none % surface cover _____ size range _____

Litter (logs, twigs, etc) % surface cover 30/40 **Depth (cm)** 2-5

Bare Ground % surface cover 0/10 (spring beds/weeds.)

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

3. VEGETATION STRUCTURE AND COVER

3. VEGETATION STRUCTURE AND COVER

Cover Class	2-10%	10-30%	30 - 70%	over 70%
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TREES			MALLEES		
	over 15m	5 - 15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	under 0.5m	
LIFE FORM					
COVER CLASS (%)	10/20	30/50		2-10	
DOMINANT SPECIES	Mel. uncin (narrow)	Mel. uncin (broad)		Enchylaena	

GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30/50	30/50			
DOMINANT SPECIES	Vulpia Arista	Watzia acum Podoth. graph			

4. VEGETATION CONDITION

Comments

weeds in herbs

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

Label each plant with plants number, site code, date and plant's name or working name if required

SITE No ML 26

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 Identification check

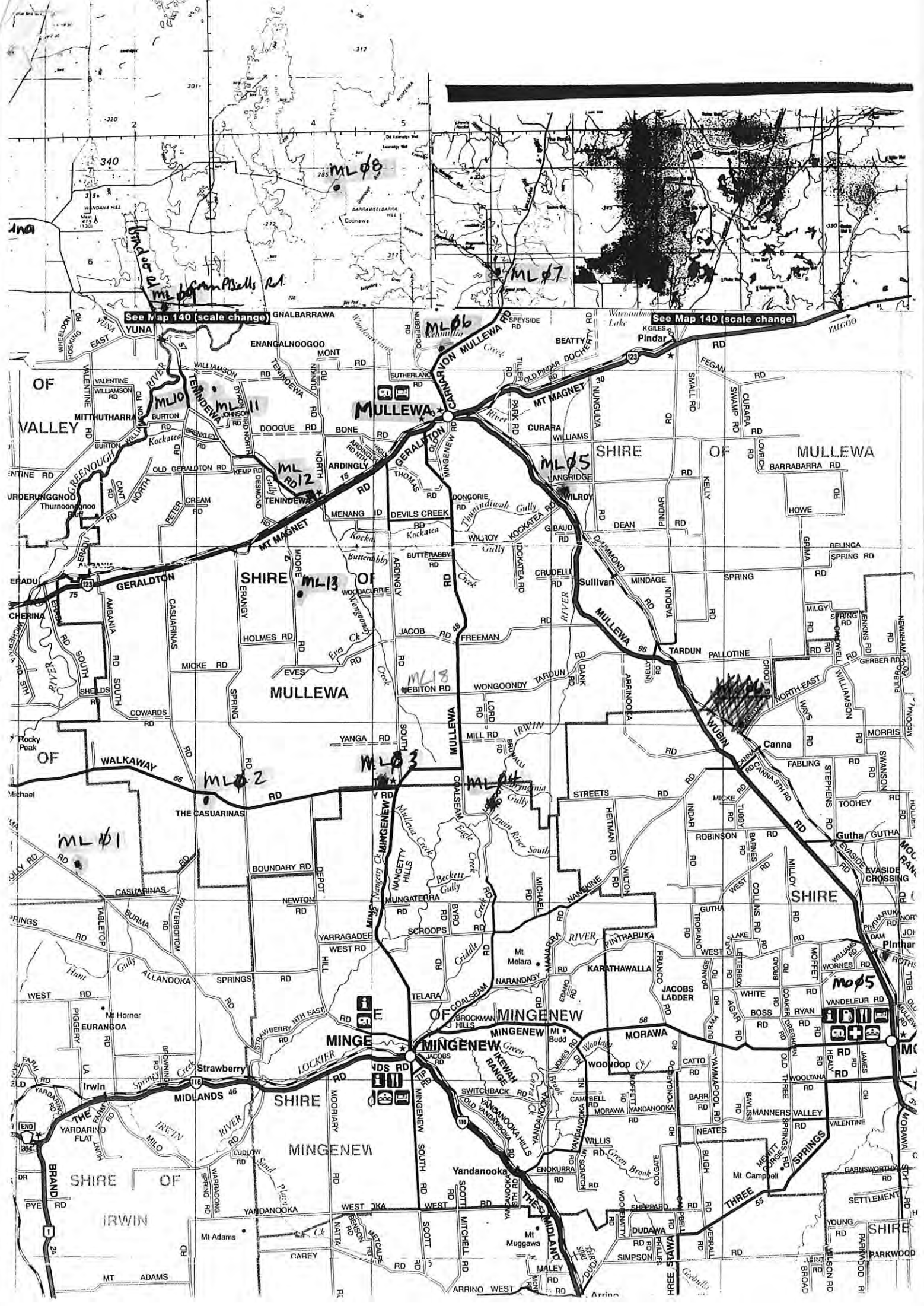
Date 27- 10 - 1998

12-9-1999

TREES				No	FI	ID	SHRUBS (cont.)				No	FI	ID	HERBS (cont.)				No	FI	ID
														Nicotiana occ ✓						
														Lobelia gibbosa ✓						

Add Mel uncinata "terete"
from cover sheet

cardiostegia (Jsp)



BAND 1

Mullewa Survey Area

Barma Rd Nature Reserve

Gs (buff-grey sand) a laterite - equivalent of
Low shrubland a Kauring
sandplain.

A 26663

Banksia scabrella

Allocasuarina humilis

Calathamus quadrifidus

Eremaea

Jacksonia

Dryandra spp.

Hakea lysicarpa

Petrophile media

28° 58' 51.4" S

115° 02' 37.4" E

Pdop = 2.9

Barma Rd

ML 01

16 - 15G



0.02 km

Valley

Barma Rd

Courville Rd

BAND 1

MULLIWA SURVEY AREA

The Casuarinas Reserve

7 km NE of Burma Rd Reservoir

C25 (grey quartz sand) low on slope

Casuarina henryana

Allocasuarina campestris

Acacia blakeyi

Flakea Trifurcata

Schultzia spp

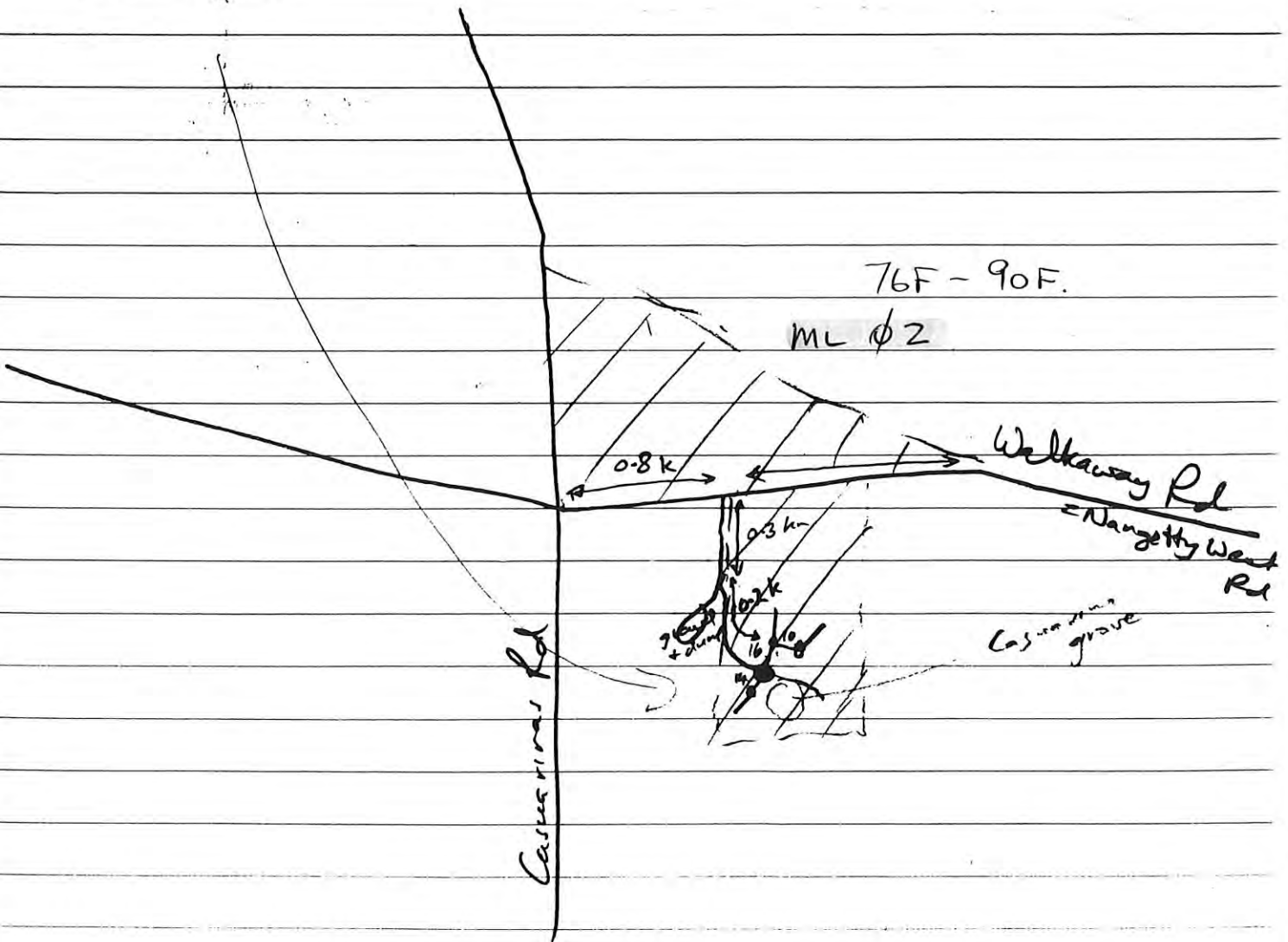
Ecdycolia

Chrys. Conostylis

28° 55' 12.25"

$115^{\circ} 12' 54.5'' E$

Pdoy 2.8



Band 1 Mullewa Survey Area

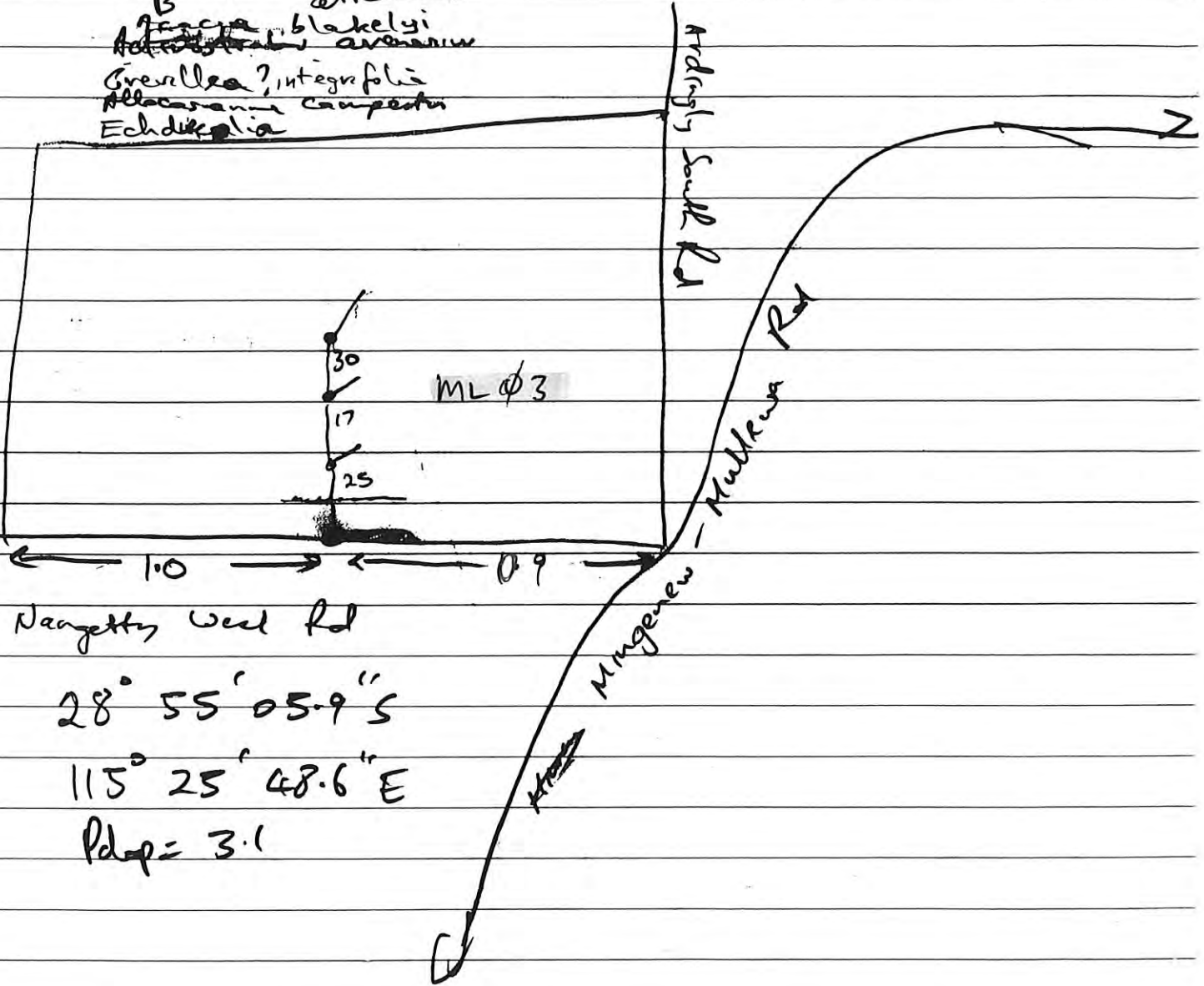
12km NW of Coolseam

AA2140

CZs (Yellow sand plain)

Banksia praealta
B. attenuata
B. blakelyi
~~*Banksia*~~ *avenaria*
Grevillea ? integrifolia
~~*Allocasuarina*~~ *campestris*
Echidnopsis

N
↑



Nangetty West Rd

28° 55' 05.9" S

115° 25' 48.6" E

Pdop = 3.1

BAND 1 ML Mullewa Survey Area

Coal seam Conservation Park

CzL breakaway slope

Dodonea? inequalis scrub + Jam
over a wattle + lots of
herbs + some weeds

28° 56' 28.6" S

115° 32' 49.0" E

Pop 3.0

N

ML 04

0.2

Fossil

Area

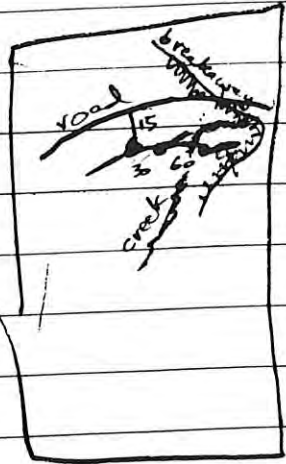
Lookout

Private Rd

Road

River

Road



5/ BAND 1. MULLEWA SURVEY AREA
 24 15 km SE of Mullewa
 24
 54 WILROY NATURE RESERVE

CZC (salting/or inundated)

Dead Eucalyptus (oxophloea)

Melaleuca laterifolia

Jun

Acacia sp

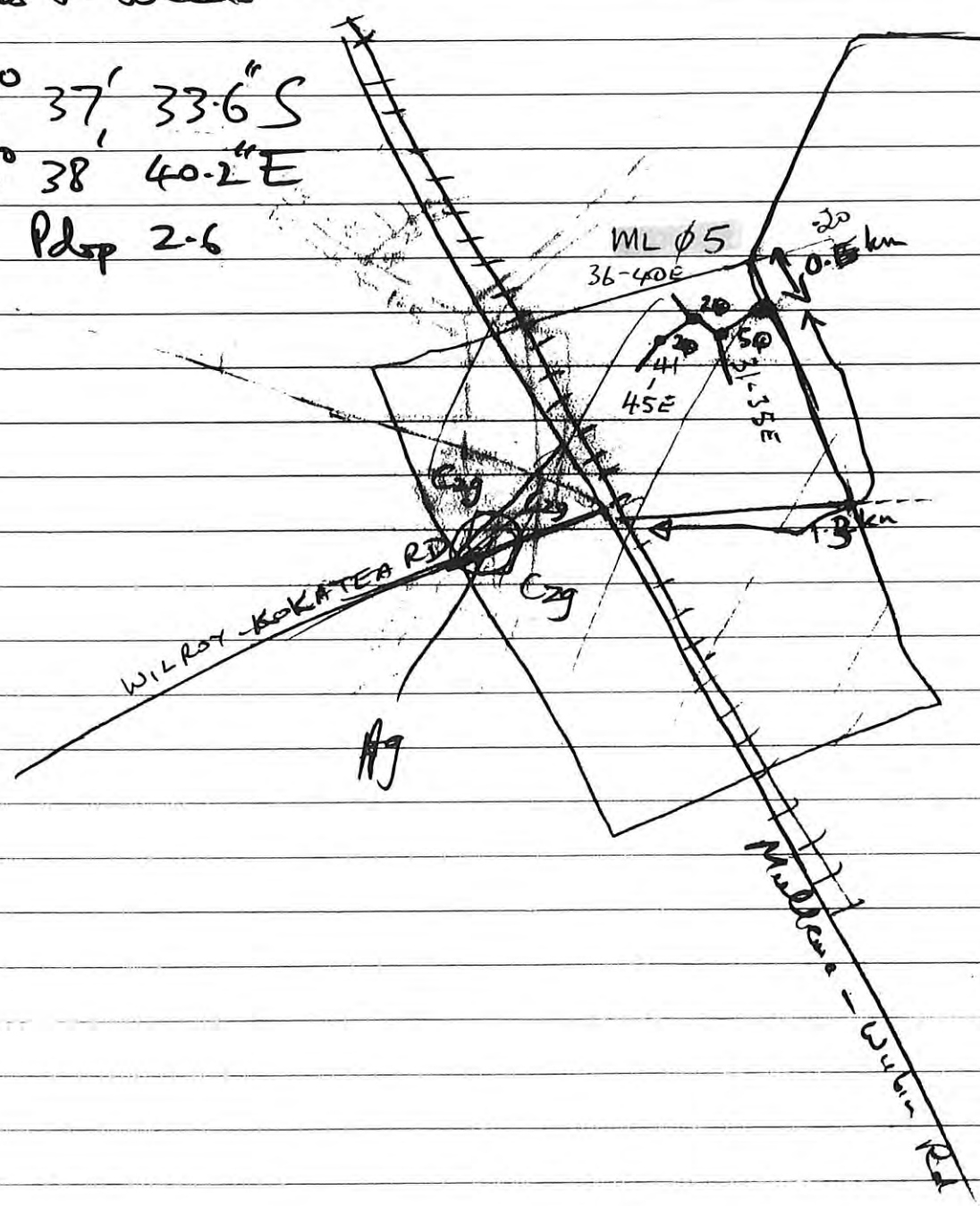
N
 ↑
 4 m high
 some dead

Herbs + Weeds

28° 37' 33.6" S

115° 38' 40.2" E

Pdop 2-6



6/47

BAND 1

MULLEWA SURVEY AREA

21 KM NW of Mullewa: Urawa Nature Reserve

QzS - quartzite upland in
= ~~QzC~~ in colluvium
mantling Late Pleistocene
Mullewa

*Acacia tetragonophylla**Stipa recurva**Stipa*, *Amphipogon*

Borhya

Herbs

28° 24' 01.7" S
115° 34' 34.4" E

Ptop 1.8

on top of plateau
rather than
under it

N



Nangerwalla Rd

Urawa Rd

low peg

ML 7 1.4

end of bitumen

0.6

invasion

Sperdy side rd

Mullewa

8.5 km

Mullewa Airstrip

Mullewa Airfield

1.3 km

ML 6

6.6

28° 28' 37.3" S

115° 30' 19.9" E

Ptop 24

Rd.

Arid Zone flora

CZC, red-brown sandy
clay, valley calcretes

Euc. gracilis
Euc. boxophloeba } LOW
Euc. pycnantha
Casuarina heugelsiana
Thin-leaved Jam

*Dodonaea viscosa**Acacia acutata**Allocasuarina acutivalva**Philothus obovatus*, *parviflorus*

BAND 1

MULLEWA SURVEY AREA

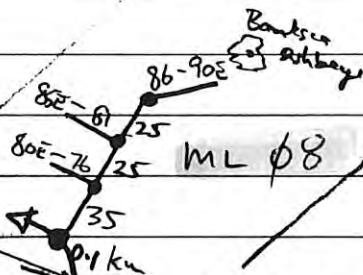
30 km NW of Mullewa

Wandana NR (East)



Wandana
NR

Coonawa Rd
S.2



C25

Mallee / Spinifex on Orange Sand

1.55 1.0

Eucalyptus lucida
E. sp

Acacia robusta areolaris
Mulga

Banksia ashbeyi
Eremaea sp

Grevillea spp

Plectroche sp.

28° 18' 33.4" S

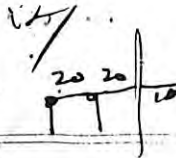
115° 22' 35.1" E

P_{top} = 2.9

Budgedong Rd

Governaugh River

Budgedong Rd



BAND 1

MULEWA SURVEY AREA
37 km WNW of Mulewa
East Yuma NR

P_n Nangetty Formation — TOP of Breakaway

Scrubs:—

- Acacia? *cygnata*
- Jam
- Melaleuca *uncinata*
- M. *radula*
- M. *micromyrtus*

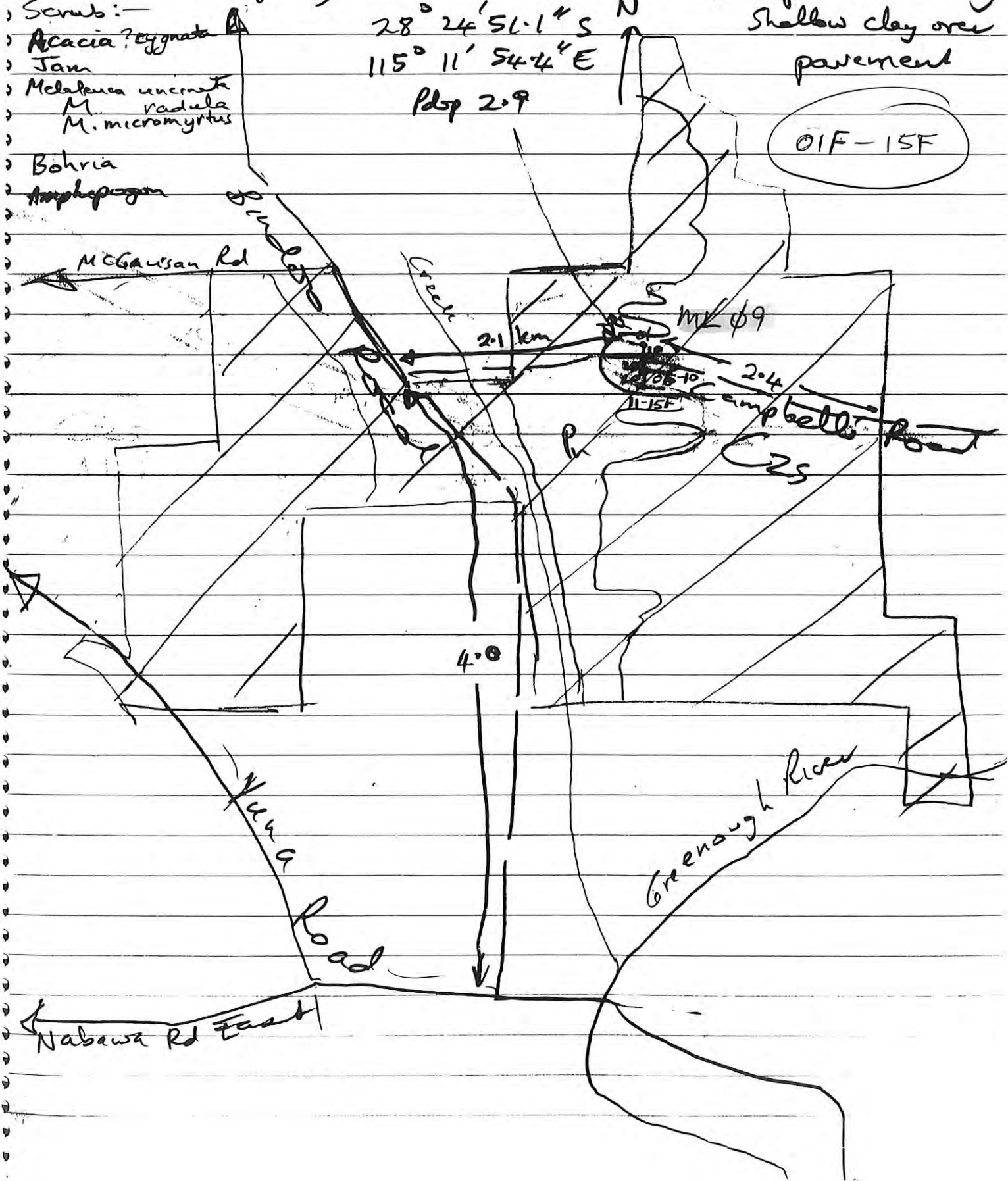
28° 24' 51.1" S

115° 11' 54.4" E

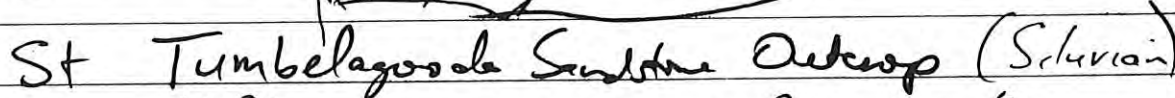
P_{top} 2.9

Shallow clay over pavement

01F-15F



25 km W of Mullaewa Bridge Hill NR



Pdog 3.1

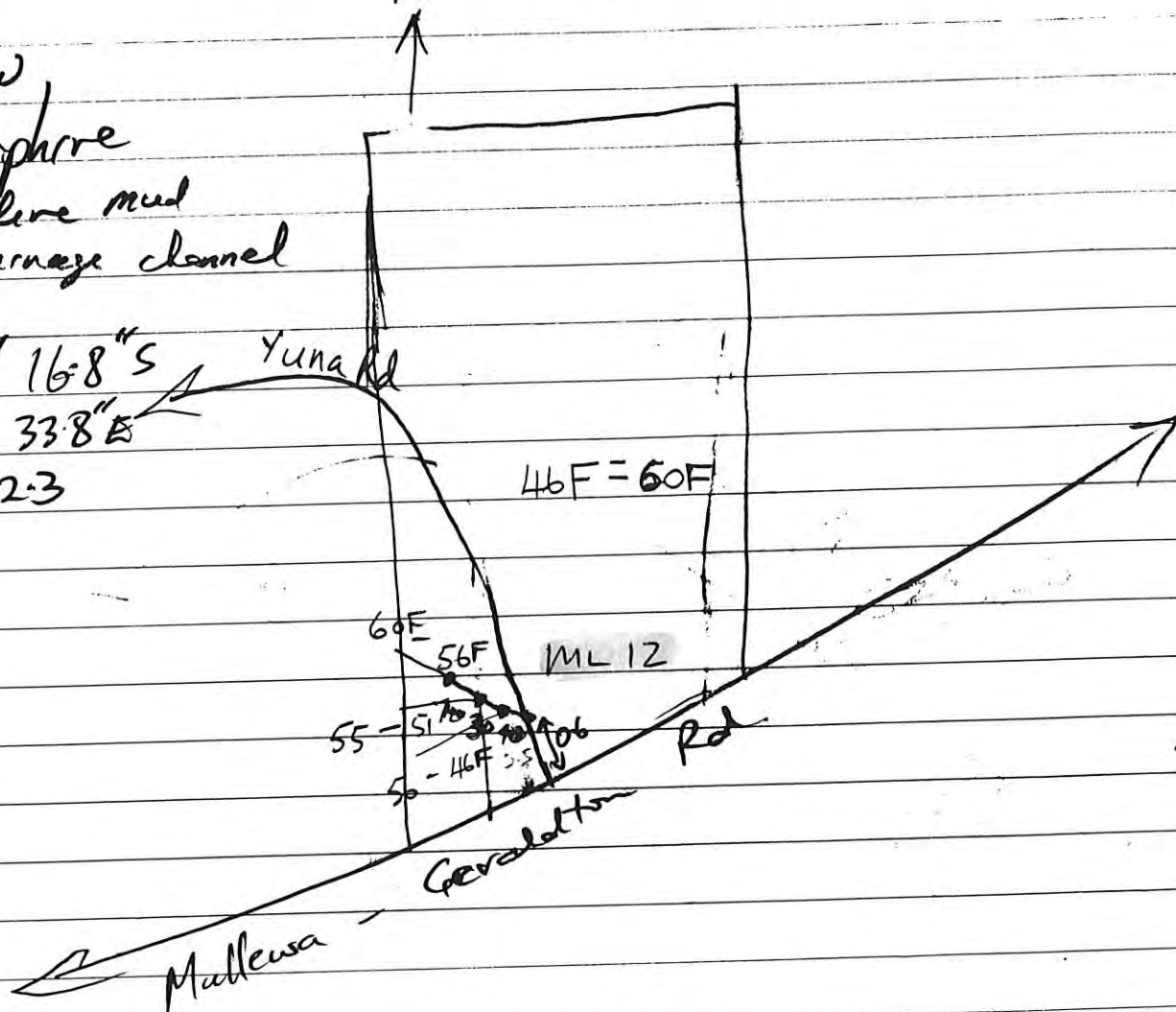
Uo. 1 - rosso. N. 1897

8) BAND 1 MULLEWA SERVICED AREA
1.8 km WSW of Mullewa, Gov't Reserve

Okw
Sampore
on saline mud
of drainage channel

28° 37' 16.8" S
115° 21' 33.8" E

Polyp 2.3



9/17 BAND 1

Mullewa STUDY AREA

25 km SW of Mullewa Indarra Nature Reserve

