

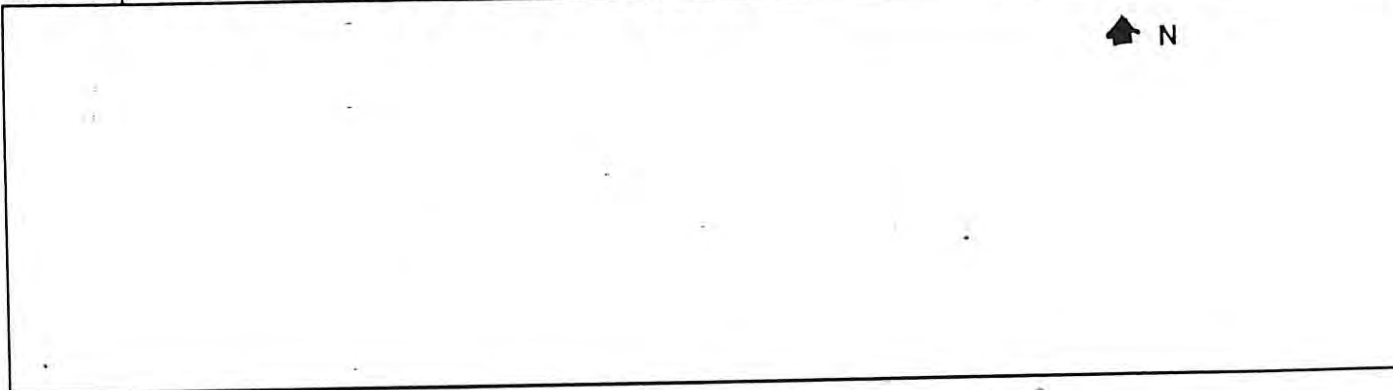
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA MO (MORAWA) SITE NUMBER 01
 DATE TRIP 25/10/1998 RECORDERS NG/GK
 DATE TRIP 10-8-1999 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

West Perenjori NR

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

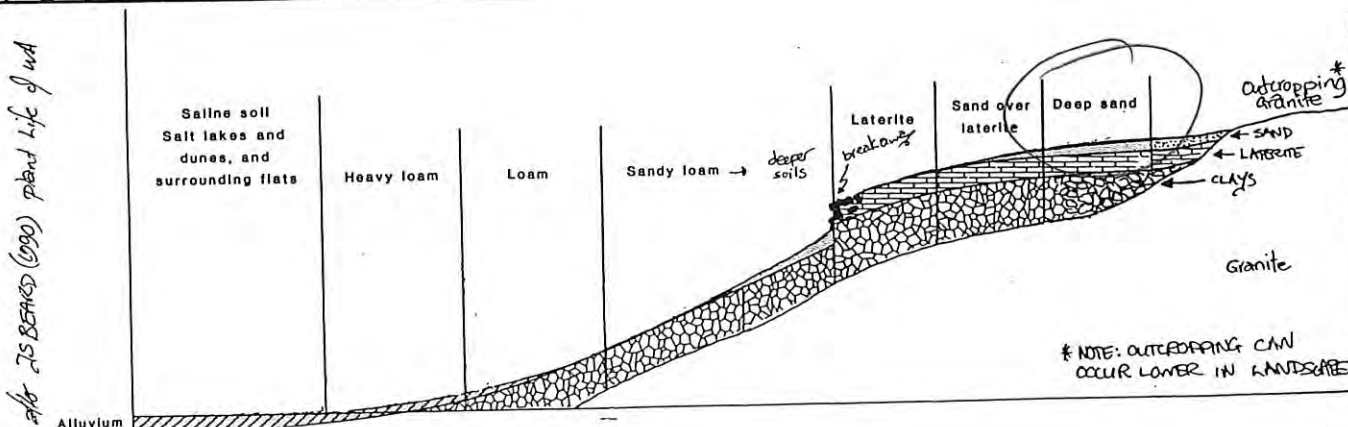
Photograph

Photographer's Name

NG

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	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW
Surface Soil	<u>sand</u>			Colour	<u>yellow</u>							
Exposed rock	<u>type</u>			% surface	<u>none</u>							
Sub-surface Soil	<u>sand</u>			Colour	<u>yellow</u>							
Rock	<u>type</u>			depth to rock								
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>phyllodes</u>			% cover	<u>10/30</u>	Bare Ground	<u>30/50</u>	% cover				
Depth	<u>2-5</u>			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.

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					<i>Eucalyptus</i> (ADJ)

	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10/30		2/10	<2
DOMINANT SPECIES		<i>Micromyrtus</i> <i>Acacia</i>		<i>Maleuca</i>	

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20	20/30			20/30/40
DOMINANT SPECIES	<i>Plectrachne</i>	<i>Waitz</i> <i>Borja const</i>			<i>Ecdelcolex</i> <i>Lepidobolus</i> <i>Mesomer preiss</i>

4. VEGETATION CONDITION

Comments

very good - excellent

20x20

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

Flowering

Euc. l.

Date 25-10-1994

Date 10-8-1999

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

Euc. eudsmoides

[illegible]

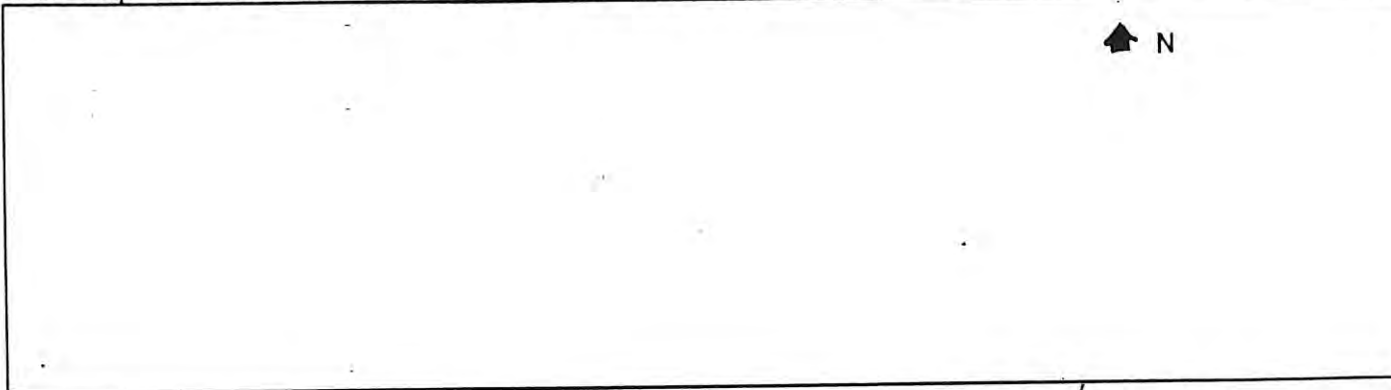
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mo (morawa) SITE NUMBER 02
 DATE TRIP 25/10/1998 RECORDERS NG/GK
 DATE TRIP 10/8/1999 RECORDERS NG/GK/AN
 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.

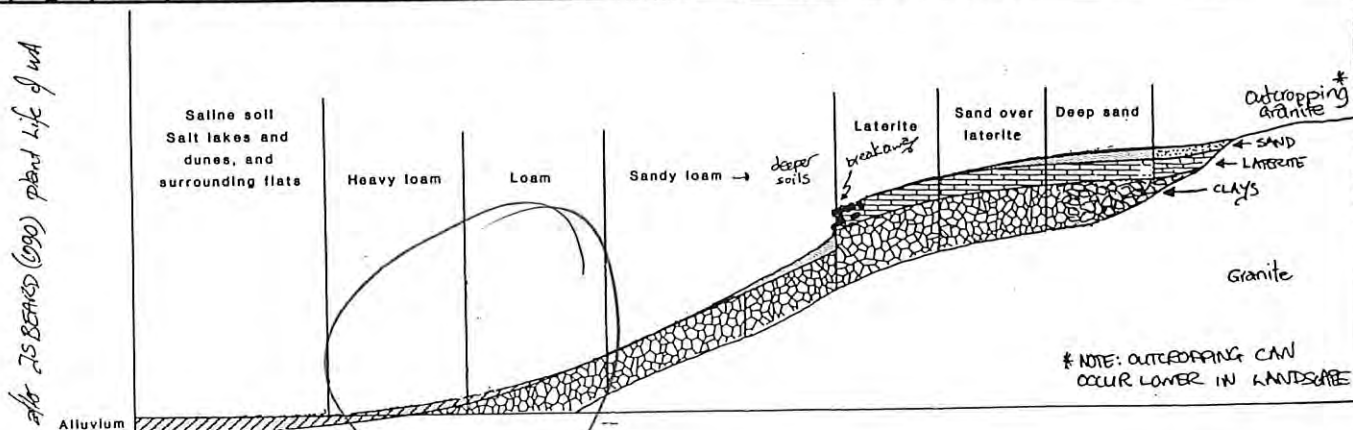


Road Location Perenjori - Carnamah Rd / West Perenjori NR

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

Photograph Photographer's Name NG Photo No 17

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 none

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

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

Litter + wigs, bark, lvs % cover 50/70 Bare Ground 30/50 %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.

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 (%)	10/20				
DOMINANT SPECIES	<i>Euc. salmonoph</i> <i>Euc. toxoph</i>				
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2			2	20/30
DOMINANT SPECIES	<i>Ac. hemiteles</i>			<i>Acacia erina</i>	~~<i>Acacia erina</i>~~ <i>Atriplex vesic</i> <i>Rhagod. drum</i>
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	L2	L2			
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

good - degrading
heavy cat for
salt encroachment

20x20

name if required
Euc. loxophleba —

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

10 - 4 - 99

[illegible]

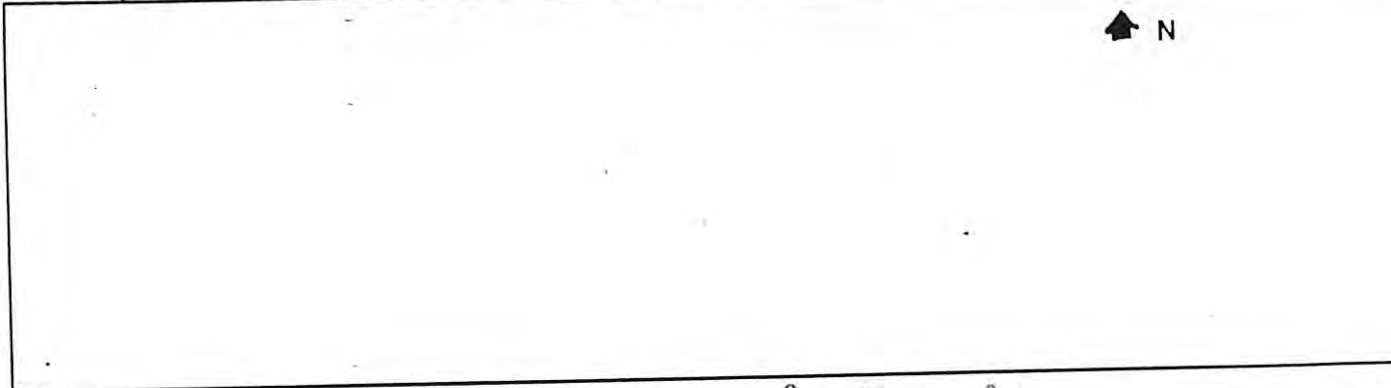
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA MO (morawa) SITE NUMBER 03
 DATE TRIP 25/10/1998 RECORDERS NG/GK
 DATE TRIP 11-8-1999 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

Baxter Rd.

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

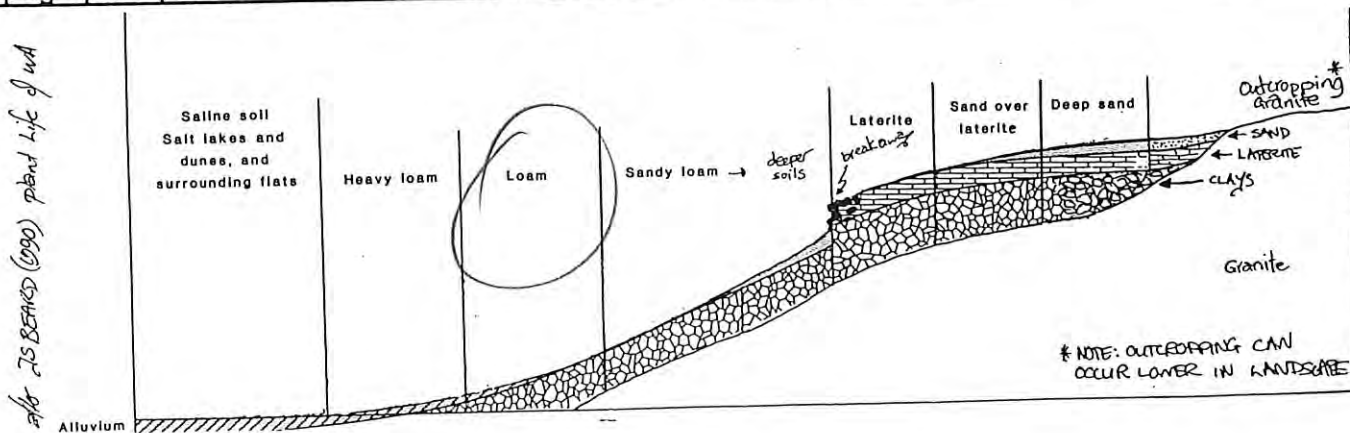
Photograph

Photographer's Name

1/3

Photo No 18

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	<u>clay-loam</u>	Colour	<u>red brown</u>
Exposed rock	<u>type</u>	% surface	
Sub-surface Soil	<u>clay-loam</u>	Colour	<u>red brown</u>
Rock	<u>type</u>	depth to rock	
Drainage	☒ well ☐ mod ☐ poor	depth water	cm
		Wet	all year winter/spring
Litter	<u>twigs, logs, lvs</u>	% cover	<u>30/50</u>
Depth	<u>2-10</u> cm	Bare Ground	<u>0-10</u> %cover
			<u>summer 30-50</u>

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 (%)	2-10		2		
DOMINANT SPECIES	<i>Euc. loxoph</i>		<i>Ac. acum</i>		

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/30				
DOMINANT SPECIES	<i>Ac. linoph</i>				

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2	30/50			
DOMINANT SPECIES	<i>Stipa</i> <i>Alba cory</i>				

4. VEGETATION CONDITION

Comments

very good - excellent

20 x 20

name if required

Saml

Label each plant
Record on Sheet

SITE No MO 03
Date 25-10-1998

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

[illegible]

Abode the
Pink
VSR
VSR

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA MO (Morawa) SITE NUMBER 04
 DATE TRIP 25/10/1998 RECORDERS NG/GK
 DATE TRIP 11-8-1999 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

Near Morawa townsite

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

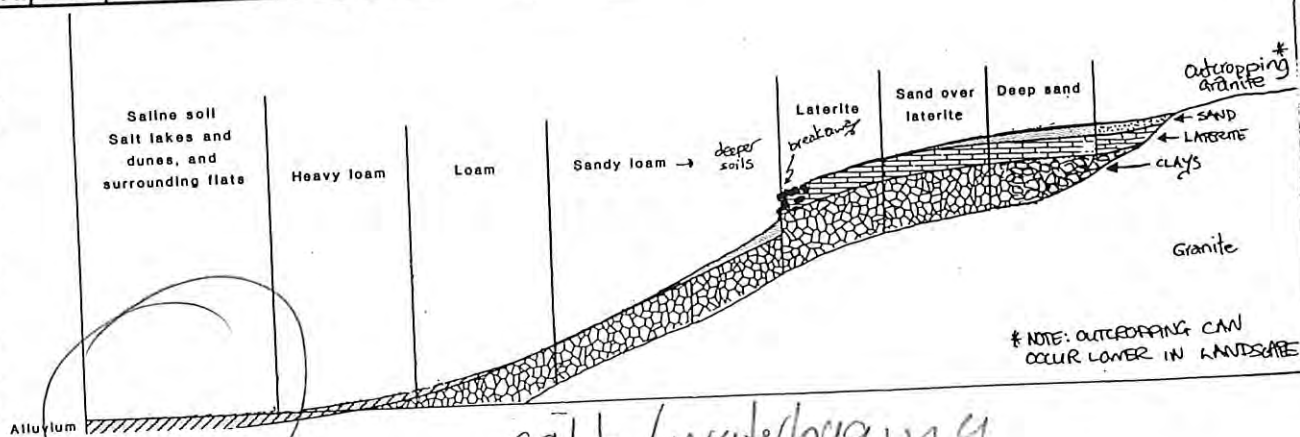
Photograph

Photographer's Name

NG

Photo No 19

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



2. SITE DATA Circle the correct response.

Slope	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW
Surface Soil	<u>sandy clay</u>			Colour	<u>red-brown</u>							
Exposed rock	<u>type</u>			% surface								
Sub-surface Soil	<u>clay</u>			Colour	<u>red brown</u>							
Rock	<u>type</u>			depth to rock								
Drainage	well	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>1-5</u>			% cover	<u>20/30</u>		Bare Ground	<u>70/80</u>		% cover		
Depth	<u>2-5</u>			cm								

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					
	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	under 0.5m
LIFE FORM					
COVER CLASS (%)	42			10/20	
DOMINANT SPECIES	dead Melaleuca			Halos. haloc Halos. indica	
GRASSES					
		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20	20/30			
DOMINANT SPECIES	Brachyotris inc	Pogonolepis Atriphaloc Trigl. hex			

4. VEGETATION CONDITION

Comments

salt / waterlogging affected
good → poor

~~same~~

Record on Sheet

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

SITE No MO 04
Date 25/10/94
11/8/11999

SITE No MO 04
Date 25/10/94
11/8/1999

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA MO (Mooravia) SITE NUMBER 05
 DATE TRIP 25/10/1998 RECORDERS NG/GK
 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 64 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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



Road Location

Pintharuka NR.

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

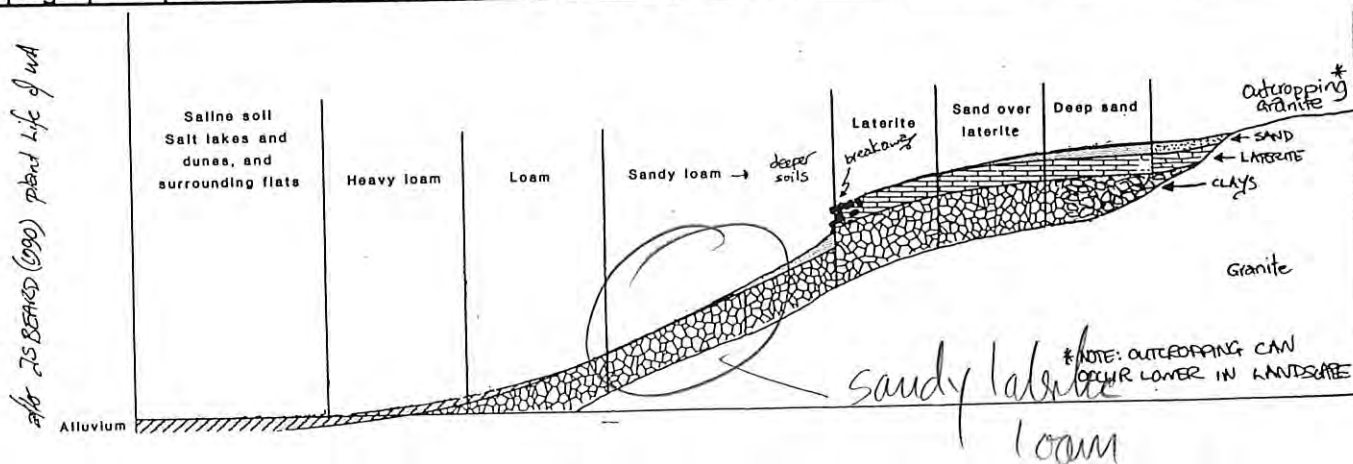
Photograph

Photographer's Name

NG

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

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencils 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 (%)	20/30	20/30			2/10
DOMINANT SPECIES	Acacia resinosa " (terete)	Allocas camp Grevillea parviflora			Micromyrt rosea
GRASSES		HERBS	SEDGES	over 0.5m	
				under 0.5m	
LIFE FORM					
COVER CLASS (%)	2	2-10		20/30	
DOMINANT SPECIES	Amphip strict	Borja caudata Calceophalus		Echeicola m Chrysopsis distig	

4. VEGETATION CONDITION

Comments

very good - excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	MO 05
Date	25/10/1998
	11-8-1999

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 <i>Amphipogon strictus</i>							
SHRUBS <i>Acacia resinomarginata</i> <i>Grevillea paradoxa</i> <i>Allocasuarina camp</i> <i>Micromyrtus rosea</i> <i>Leucopogon</i> sp. OUTER WINDMILL BUSH <i>Grevillea (oneygyna)</i> <i>Grevillea didymobotrya</i> ssp. <i>didymobotrya</i> <i>integritolia</i> <i>Acacia sterophylla</i> ssp. <i>sterophylla</i> <i>Acacia calyculata</i> ssp. <i>calyculata</i> <i>Acacia sibirica</i> <i>Acacia cylindrica</i>				<i>Mallesteria rosea</i> (VSP) HERBS <i>Borja constricta</i> <i>Tetrachymene cyanop</i> <i>Waltzlia acumin</i> <i>Caloccephalus</i> = <i>Trid</i> shrub <i>Thysanot</i> mangl <i>Rhodanthe laevis</i> <i>Ulleria cycnop</i> <i>Schoenus nlanus</i>				SEDGES <i>Ecdiocola monost</i> <i>Chrysitrix distigmat</i> <i>Cherlanthes austro-tenuif</i> 11/8 <i>Clathroceph pseudov</i> 11/8 <i>Aibbertia arcuata</i> 11/8 <i>Lolium rigidum</i> 11/8 <i>Hypochaeris glabra</i> 11/8 <i>Allocasuarina cornicul</i> 11/8 ADS <i>Psammomyza chvetrad</i> (VSP)			

Chel species
- 2 tests trace

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA MORAWA (MO) SITE NUMBER 6
 DATE TRIP 26/10/1998 RECORDERS NG/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location CANNA NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	<u>NG</u>	<u>21</u>

Topographic Position		(Circle the correct response)
<u>Upland</u>	<u>granite</u>	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 gritty sandy loam Depth to Rock 10-20cm Colour red brown

Exposed Rock type granite % surface cover 2 size range 30-50cm

Litter logs, lvs, twigs % surface cover 70/90 Depth (cm) 2-30

Bare Ground 10 % surface cover (annuals) >70%

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

excellent
rabbit grazing

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No MO 06
Date 26-10-1998
11-8-1999

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

rosea 26/10
davenportii 11/8
reidii

TREES

No. FI ID

MALLEES

SHRUBS

SHRUBS (cont.)

GRASSES

HERBS

HERBS (cont.)

No. FI ID

Schoenus cassini ✓
Thys mangley ✓
Laurenciella rosea ✓
Arctotheca calend ✓
Hypochaeris glabra ✓
Cratogeomys oblong ✓
Dianella revolut ✓
Goodenia occidentalis ✓
Gnephosis pusilla ✓
Gnephosis tenuissima (vsp) ✓
Wahleberg preiss ✓
Lobelia (sm) biseriata (vsp) ✓
Tricoryne tuberosa ✓
SEDGES
Rhodanthe spicata ✓
Isotoma hypoch ✓
Schoenus nanus ✓
Pogonolepis strict ✓
Anthrop curv ✓
Goodenia boordiana (vsp) ✓
" rostr ✓
" minutif ✓
Vellera cynop ✓
Mitrasacme paradox ✓
Daucus globid ✓
Ursinia anthem ✓
Militia recurva 11/8 ✓
Diuris 11/8 ✓
Drosera macrantha (white) 11/8 ✓
Cyanicula amplexans 11/8 ✓
Hydrocotyle ✓
Ophioglossum coriaceum ✓
Thysanotus sp ✓
Crassula colorata 11/8 ✓

Acacia acumin ✓
Calycotome eph ✓
Baccharis multiflora (vsp) ✓
Thryptomena australis ✓
Melandra sulgens ssp fulgens ✓
" radula ✓
Grevillea tenuiloba vsp ✓
Mirbelia spinosa ✓

Vulpia myuros ✓
Stipa trichophylla ✓
Aristida capophylla ✓
Pentstemon deserti (vsp) ✓
Eriochorda longiflora ✓
Dromus rubens ✓
Briza max ✓
Monacather paradox ✓

Vellera rosea (vsp) ✓
Bunga nitida ophurophylla (vsp) ✓
Waltzia acumin ✓
Trachym omata ✓
" cyanop ✓
Brachycome hybridif ✓
Cheilanthes austro-ten ✓
Lobelia (lge) Swingsat (vsp) ✓
Podotrocha gnaphal ✓
Rhodanthe laevis ✓
Gilbertia tenuif ✓
Dioscorea hastifolia ✓
Podolepis comarum ✓

Hydrocotyle caltrifera 26/10

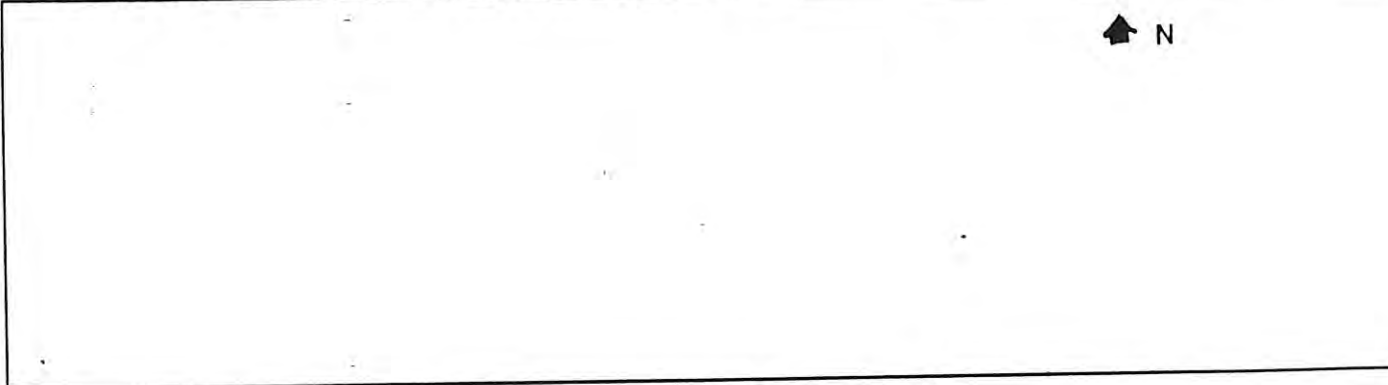
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mo (MORAWA) SITE NUMBER 7
 DATE TRIP 25/10/1998 RECORDERS NG/GK
 DATE TRIP 11-8-1999 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

near - Nullewa Lake

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

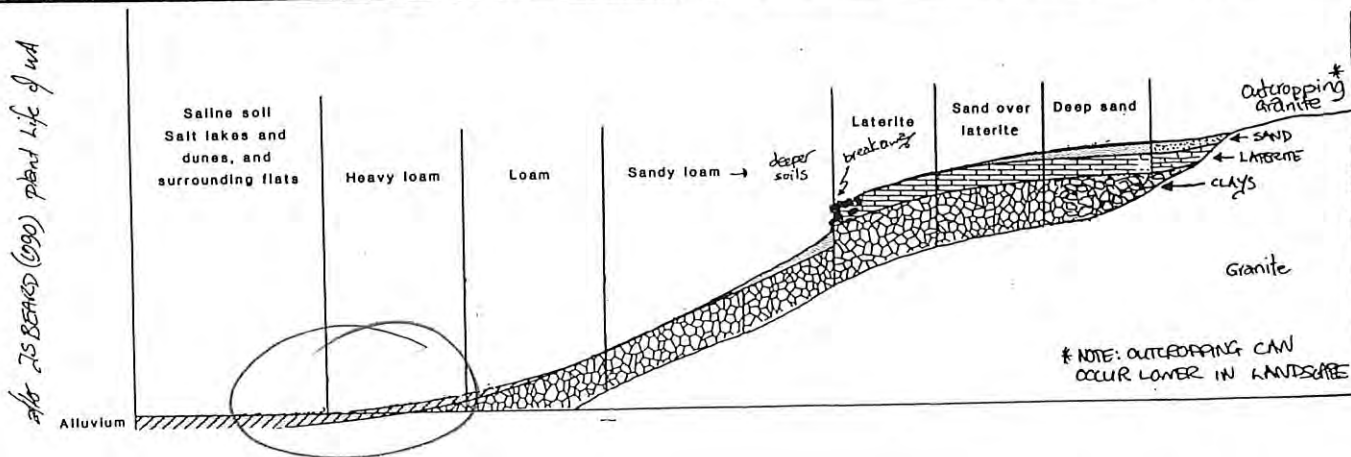
Photograph

Photographer's Name

NG

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	<u>flat</u> gentle steep	Aspect	N NE E SE S SW W NW
Surface Soil	<u>clay-loam</u>	Colour	<u>red</u>
Exposed rock	type <u>NONE</u>	% surface	
Sub-surface Soil	<u>clay</u>	Colour	<u>red</u>
Rock	type <u>?</u>	depth to rock	<u>?</u>
Drainage	well <u>mod</u> poor	depth water	cm <u>Wet all year</u> winter/spring
Litter	<u>logs, dead herbs</u>	% cover	
Depth	<u>2-20</u> cm	Bare Ground	<u>how 10</u> %cover
		<u>summer</u>	<u>50/70</u>

3. VEGETATION STRUCTURE AND COVER

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

4. VEGETATION CONDITION

Comments

salt affected
poor

20x40

same

Label each plant with plants number, site code, date and 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

8.

USV

Sp. /
incubated
period
Saliv

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Morawa (Mo) SITE NUMBER 8
 DATE TRIP 24/10/1998 RECORDERS NG/GK
 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 64 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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

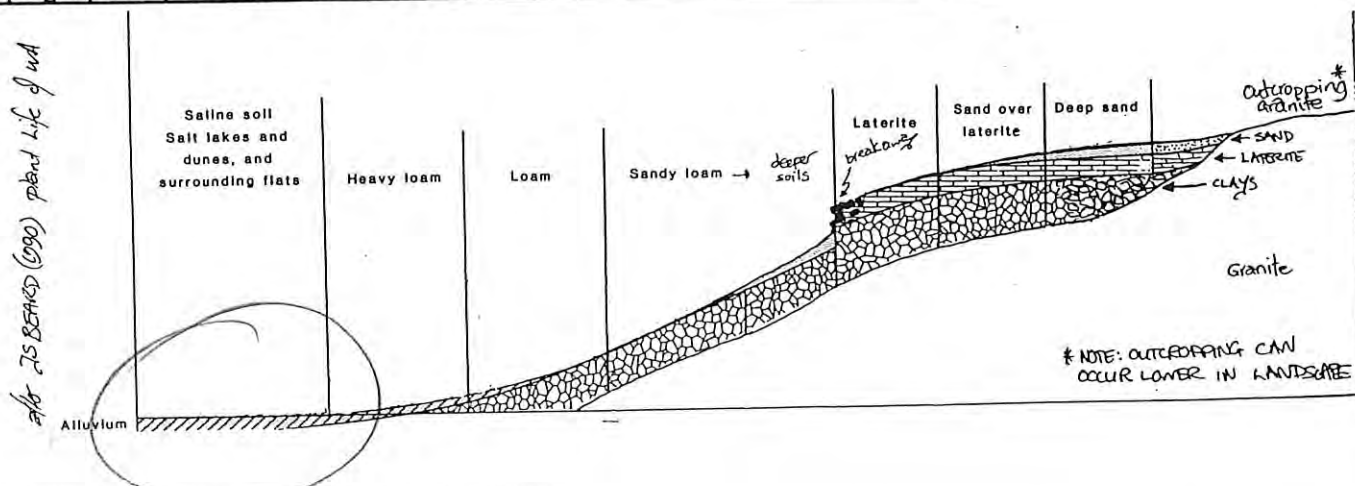


Road Location KADJI - KADJI

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

Photograph _____ Photographer's Name NG Photo No 7

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 clay - clay Colour red brown
 Rock none type none depth to rock 21m
 Drainage well mod poor depth water cm Wet all year winter/spring
 Litter twigs, lvs, stems % cover 20/30 Bare Ground 30/50 %cover
 Depth 2-20 cm

very good
grazed

20x20

same

Pogoriljski šk. let 24/10

Label each plant
Record on Sheet

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

Date 24/10/1998

Date 11/8/99

(claypan with Mel?strob - Schoenus ~~plegans~~ humilis, common, edge
ADJ VSP

- Hyalochlamys globosa (VSP)
- Hydrocotyle coarctata (VSP)

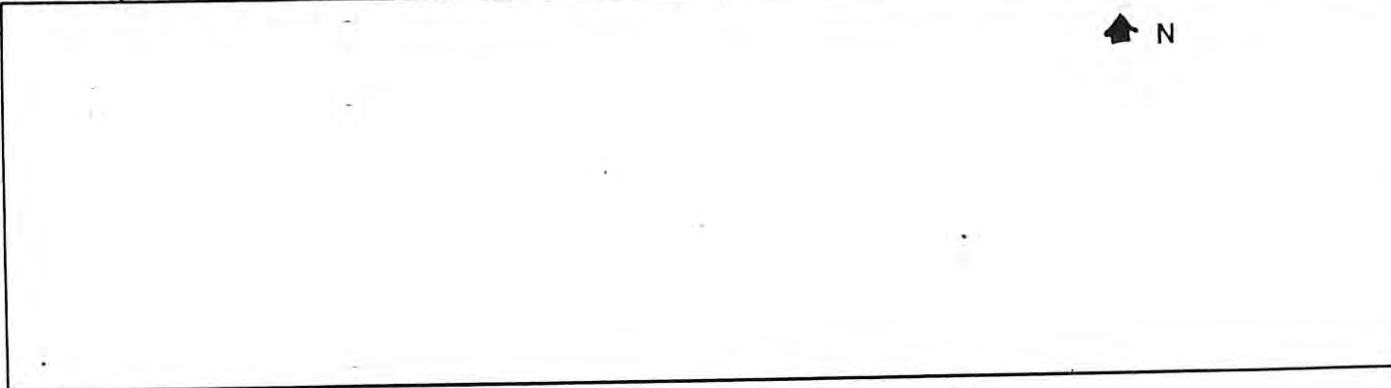
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA MO (Morawa) SITE NUMBER 09
 DATE TRIP 24/10/1998 RECORDERS NG/GK
 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 64 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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



Road Location

Lochado Rd.

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

Photograph

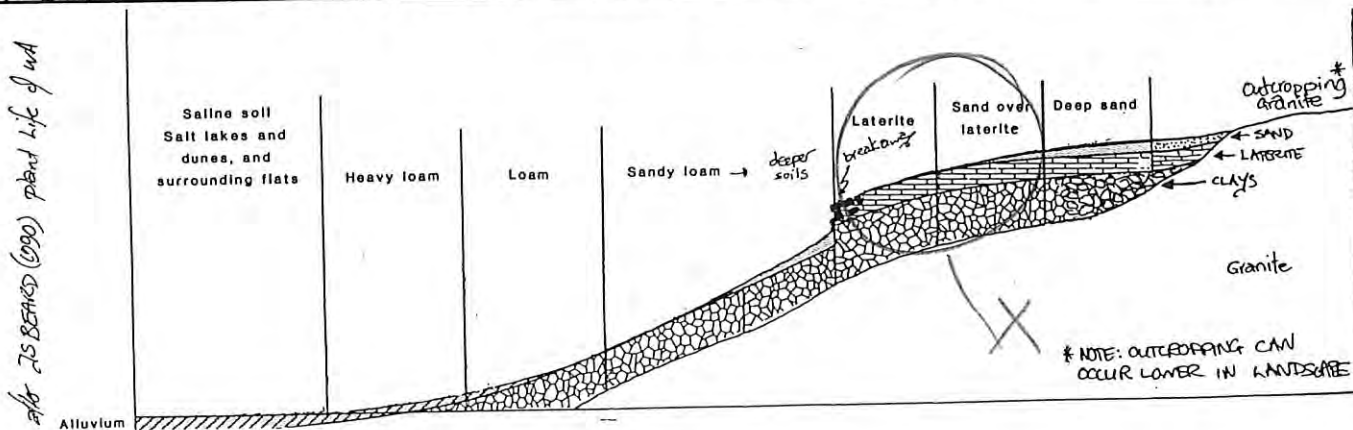
Photographer's Name

NG

Photo No

9

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



2. SITE DATA Circle the correct response.

Slope	<u>flat</u> gentle steep	Aspect	N NE E SE S SW W NW
Surface Soil	<u>laterite sandy loam</u>	Colour	<u>red-brown</u>
Exposed rock	type <u>laterite</u>	% surface	<u>20/30/50</u>
Sub-surface Soil	<u>sandy loam</u>	Colour	<u>brown</u>
Rock	type <u>laterite</u>	depth to rock	<u>20/50cm</u>
Drainage	<u>well</u> mod poor depth water	cm	Wet all year winter/spring
Litter	<u>twigs, logs, lvs</u>	% cover	<u>20/30</u>
Depth	<u>2-5</u> cm	Bare Ground	<u>30</u> %cover

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

20720

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No MO 09
Date 24/10/1998
11-8-1999

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

Calycopseplus ephedroides

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
MALLEES								<i>Gnephosis tenuifl</i>			
								<i>Brachycone cheilosperma</i>			
SHRUBS				GRASSES				SEDGES			
HERBS				HERBS				SEDGES			
HERBS				HERBS				SEDGES			
HERBS				HERBS				SEDGES			
HERBS				HERBS				SEDGES			

Gnaphalium *multiflorus* 24/10 (VSP)

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA

MO (Moawa)

SITE NUMBER

10

DATE TRIP

24/10/1998

RECORDERS

NG/GK

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 64 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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



Road Location

Lochada Rd.

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

Photograph

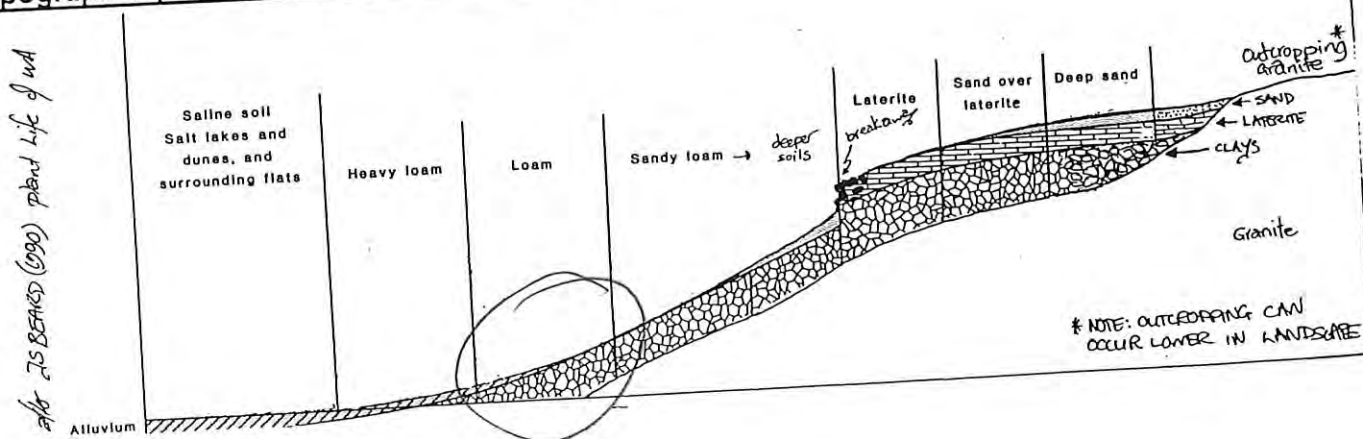
Photographer's Name

NG

Photo No

8

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

% surface

none

Sub-surface Soil

clay loam

Colour red brown

Rock

granite type

250cm depth to rock 250cm

Drainage well

mod

poor depth water

cm

Wet all year

winter/spring

Litter

leaf litter dead annual % cover 70/90
Depth 1-3 cm (>20)

Bare Ground

2/10

%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 (%)		2-10	20/40		
DOMINANT SPECIES		<i>Euc. loxoph</i>	<i>Acac. acum</i> <i>Alloc. acutiv</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>Acacia</i> <i>? acutiro</i>		
	GRASSES		HERBS	SEDGES	over 0.5m
					under 0.5m
LIFE FORM					
COVER CLASS (%)	30/50		30/50		
DOMINANT SPECIES	<i>Amphipogon strictus</i>		<i>Law. daven</i> <i>Waitzia acum</i>		

4. VEGETATION CONDITION

Comments

very good — some fence post
cutting
weeds under trees in
patches

20×20

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

same

Record on Sheet

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

11-8-1999

same

(pink)

[illegible]

Hyalosperma glutinosum 24/10.

Controllefs drawn 20/8

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA MO SITE NUMBER 11
 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.



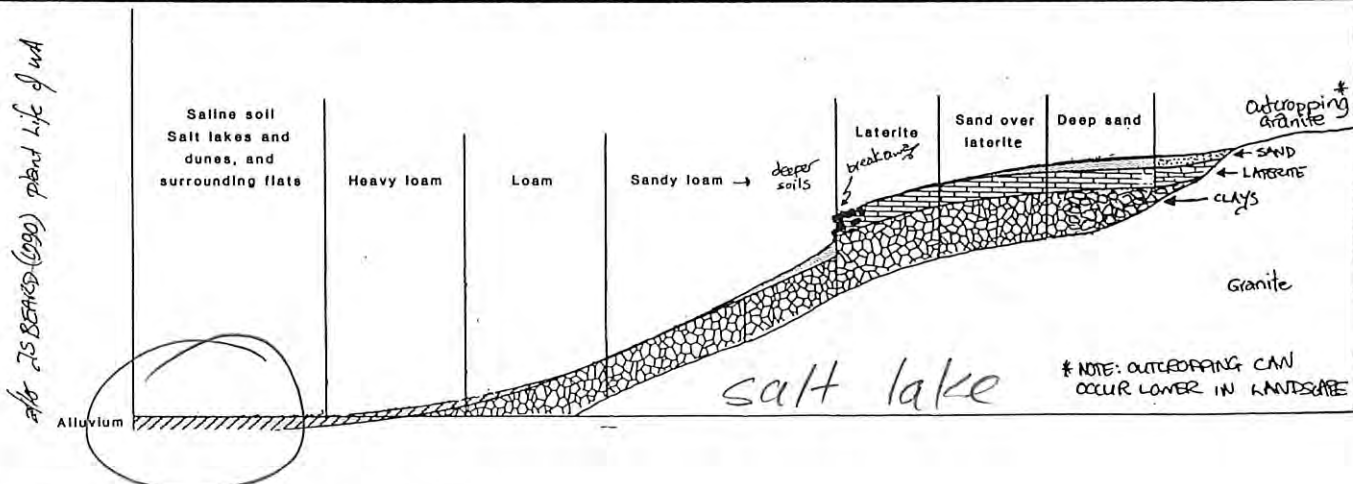
Road Location Mungada Rd.

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____

Photograph Photographer's Name NG Photo No 11

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 loam **Colour** reddish
Exposed rock type none % surface none

Sub-surface Soil clay **Colour** red
Rock type none depth to rock no ?

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

Litter Twigs % cover 10/20 **Bare Ground** 30 %cover
 Depth 2 cm 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 (%)					20/30
DOMINANT SPECIES					Halos. halocn " indica Atrip vesic

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20	20/30			2
DOMINANT SPECIES	Brom oen Paraphl incurv	Gnaph. acic Pogonolopis			

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20x20

5. SPECIES PRESCENCE

SITE No MO 11
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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
								Trigloch minut			
								Sonchus oleraceus			
								Gnephosis ~~pusilla~~ ^{trifida} (vsp)			
								Gneph (bubble) ~~Hylo~~			
MALLEES											
				GRASSES							
				Bromus arenarius				Dithyrostegia ~~uniflorus~~ 24/10			
				Paraphlois incurva							
				Pentastichis aroides							
SHRUBS				~~Ses. indusa~~				SEDGES			
Halosarcia halocnem								Centrolepis humillima	11/8		
~~indica~~ ~~leptoclada~~								Eragrostis pergracilis	11/8		
Didymanthus roei								Brachycome ~~iberfolia~~	11/8		
Rtriplex vesic								Rhodanthe strictum	11/8		
				HERBS				Gnephosis ~~trifid~~ ^{tenuiss} 11/8			
Maiveana ~~athinsiana~~ ~~separata~~				Stenopetal ~~sphaeroc~~ (vsp)							
Frankenia ~~laxmanii~~				Cottula cotuloides				granulifera	11/8		
Halosarcia = ~~Sclerostegia~~				Mesembry ~~aitonis~~							
~~disarticulate~~				Gnephosis ~~acicul~~							
				Senecio glossanth							
				Calandrinia							
				Centrolep humill							
				Trigloch mucron							
				Daisy - ~~laemarin~~ ~~burkittii~~ 24/10				Calandrinia ~~polyandra~~ 24/10			
				Pogonolepis st				~~arabacea~~			
				Centrolepis pilom 24/10							

Cypripedium annual 11/8 rigidellus (vsp)
Drosera rotundifolia 11/8

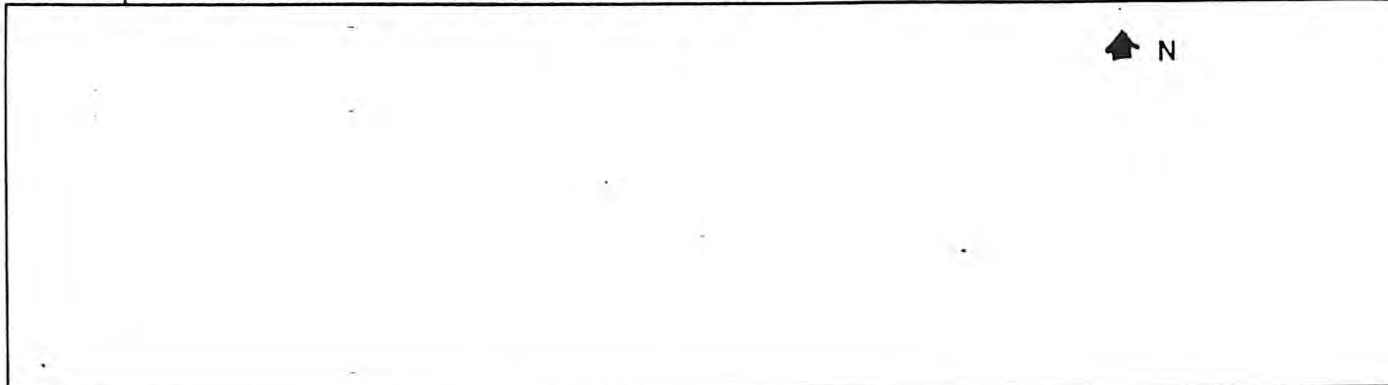
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mo (MORAWA) SITE NUMBER 12
 DATE TRIP 24/10/1988 RECORDERS NG/GK
 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 64 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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



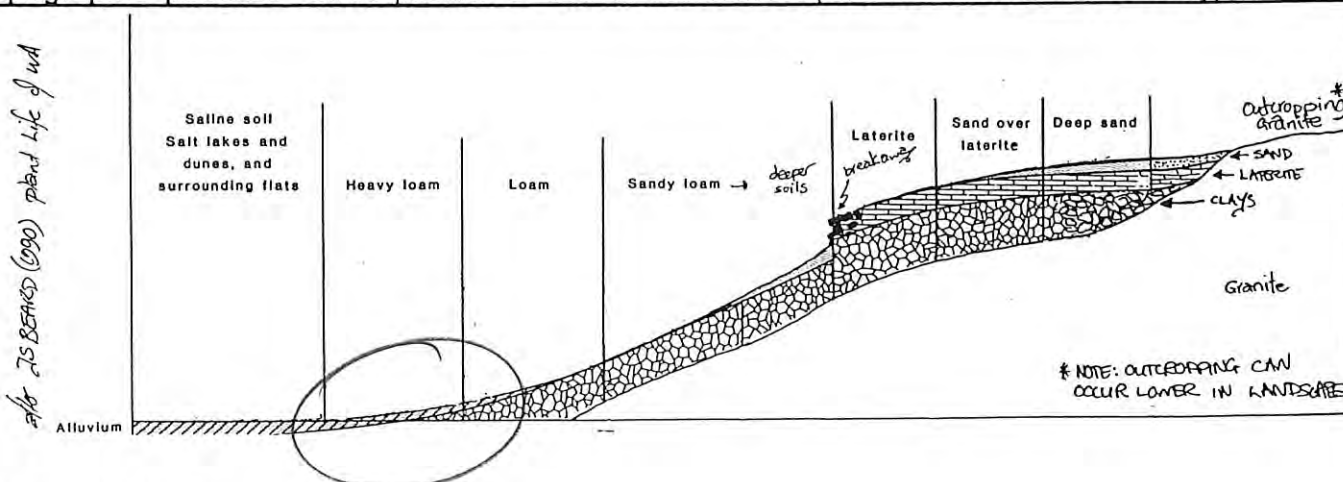
Road Location Mungada road.

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____

Photograph _____ Photographer's Name NG Photo No 10

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 _____

Sub-surface Soil clay Colour red

Rock type calcrete depth to rock 20 - 30 cm

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

Litter logs, twigs, lvs % cover 30/50 Bare Ground 30/50 %cover
 Depth 2 - 20 cm

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.

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		
LIFE FORM					
COVER CLASS (%)	2/10				
DOMINANT SPECIES	<i>Euc. loxophleba</i>				
MALLEES					
	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					
COVER CLASS (%)	2/10	< 2		10/30	
DOMINANT SPECIES	<i>Acacia ?</i>	<i>Euc. aphyll</i>		<i>Atriplex vesic</i> <i>Phyll. obov</i>	
GRASSES					
	HERBS		SEDGES		
LIFE FORM					
COVER CLASS (%)	20/30	30/50			
DOMINANT SPECIES	<i>Stipa trichop</i> <i>Aira cory</i>	<i>Maureana comosa</i> <i>Zygoph. erem</i> <i>Phyllot exalt</i>			

4. VEGETATION CONDITION

Comments

very good - excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20720

5. SPECIES PRESCENCE

SITE No MO 12
Date 24/10/1998
11-4-1999

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

same

TREES			SHRUBS (cont.)			HERBS (cont.)			No	FI	ID
<i>Eucalyptus loxophleba</i>						<i>Actinobole uligin</i>					
						<i>Senecio glosanth</i>					
						<i>Podolep canescens</i>					
						<i>Stenopetalum lineare</i>					
						<i>Callotis hispidula</i>					
						<i>Waltzia acuta</i>					
						<i>Isotopsis gramin</i>					
						<i>Tricodanth skirrip</i>					
						<i>Menkea australis</i>					
						<i>Gnephosis ? pusilla</i>					
						<i>Goodenia berard</i>					
MALLEES			GRASSES			SEDGES			No	FI	ID
			<i>Stipa trichophylla</i>			<i>Pogonolepis melleriana</i>					
			<i>" elegantissima</i>			<i>Osteospermum claudet</i>					
			<i>Bromus</i>			<i>Conchus olerac</i>					
			<i>Vulpia myuros</i>			<i>Daucus glochid</i>					
			<i>Aira cory</i>			<i>Erodium cygnorum</i>					
			<i>Pentastichis abradis</i> 24/10			<i>Phacelia Mungerii</i>					
SHRUBS			HERBS								
<i>Exocarpus aphyllus</i>			<i>Ptilotus exaltatus</i>			<i>Sida calyxhymenia</i>					
<i>Acarila odummata</i>			<i>Brassica tomentifolia</i>			<i>Brachycome kerkira</i>					
<i>Atriplex vesicaria</i>			<i>Zygophyllum fruticulosum</i> (VSP)			<i>Calotris multicaulis</i>					
<i>Ptilotus obovat</i>			<i>" fruticosum</i> (VSP)			<i>Daucus glochid</i>					
<i>Sclerolaena diacanth</i>			<i>Petrohagia velut</i>			<i>Hypochaeris glabra</i>					
<i>Enchylarna toment</i>			<i>Gnephosis = Colchicella multiflora</i>			<i>Goodenia villosa hispidula</i>					
<i>Rhagodia drumm</i>			<i>Chthonocroph pseud</i>			<i>Hydrocotyle piligera</i>					
<i>Marema canosa</i> (VSP)			<i>Pogon strictus</i>			<i>Hyalospermum glutinos</i>					
<i>Erychiton sclerol</i>			<i>Cephalip drumm</i>			<i>Cuscuta epithymum</i>					
<i>Eremophila (altm)</i>			<i>Vellera rosea</i>			<i>Vellera cydnopot</i>					
<i>Comesp integr</i>			<i>Helichrysum splendid</i>			<i>Stenopetalum lineare</i>					
			<i>Daisy = Gnephosis aculeata</i>								
			<i>Ptilot gaudich</i>								
			<i>Zygophyllum fruticulosum</i> (VSP) has same tree								
			<i>Gnephosis lausson - (large variant)</i> (VSP)								

tride (VSP)

ciliacaps

Hyalochloa glochif

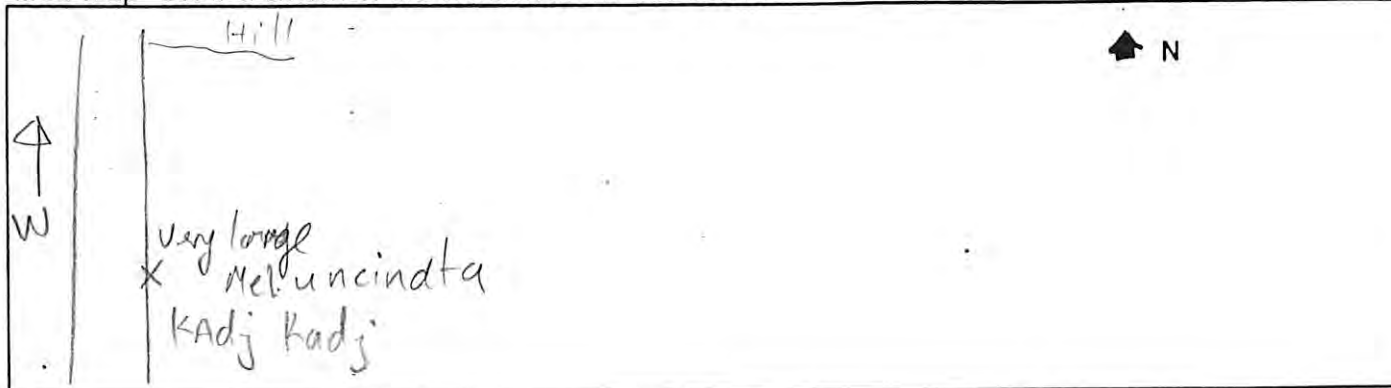
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mo (Morawa) SITE NUMBER 13
 DATE TRIP 25/10/1998 RECORDERS NG/GK
 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 64 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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



Road Location

Kadji-Kadji - Grazing Lease

Geographic Location Latitude 29° 11' 43.6 S Longitude 116° 18' 58.0 E Altitude 3.0

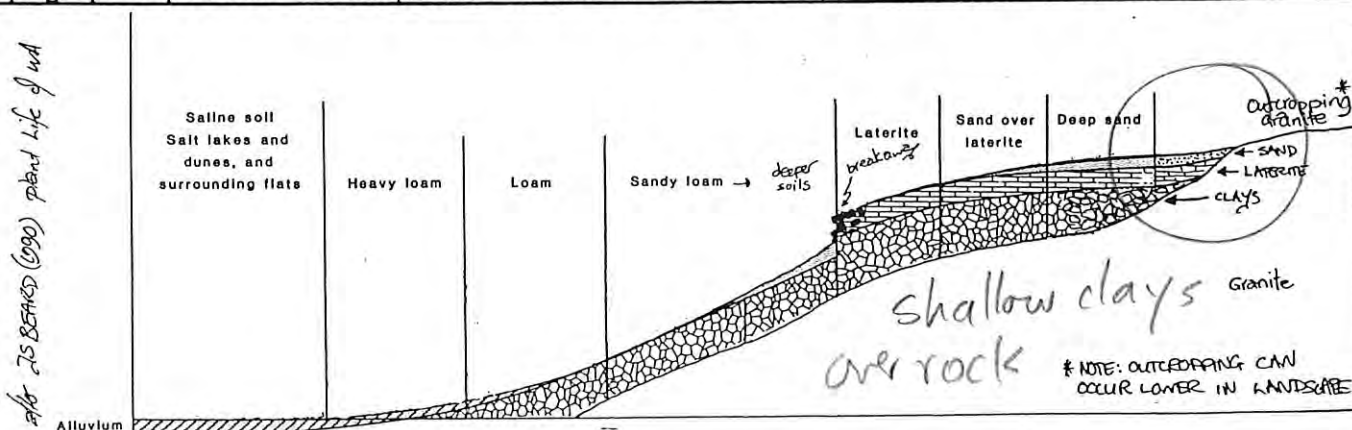
Reference Map AMG - 433514 6770156

Photograph Photographer's Name

NG

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 clay loam Colour red-brown
 Exposed rock type sandstone % surface 30/50

Sub-surface Soil clay Colour red
 Rock type depth to rock 2-30 cm

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

Litter logs, vs % cover 10/30 Bare Ground summer > 50% cover
 Depth 2-5 cm now < 10%

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.

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					
	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	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)	10/30			2-10	
DOMINANT SPECIES	Mel. uncin Acac. acum Ac. tetragono			Myrtella	
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10	50/70			
DOMINANT SPECIES	Alra cory	Waltzia Helipterum spic Cephalip drumm			

4. VEGETATION CONDITION

Comments

excellent - very good
(annual weeds under some shrubs)

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

5. SPECIES PRESCENCE

SITE No MO 13
Date 25/10/1998
11-6-1999

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

Date	25/10/1998	Column 3	flowering time	tick if species																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											</
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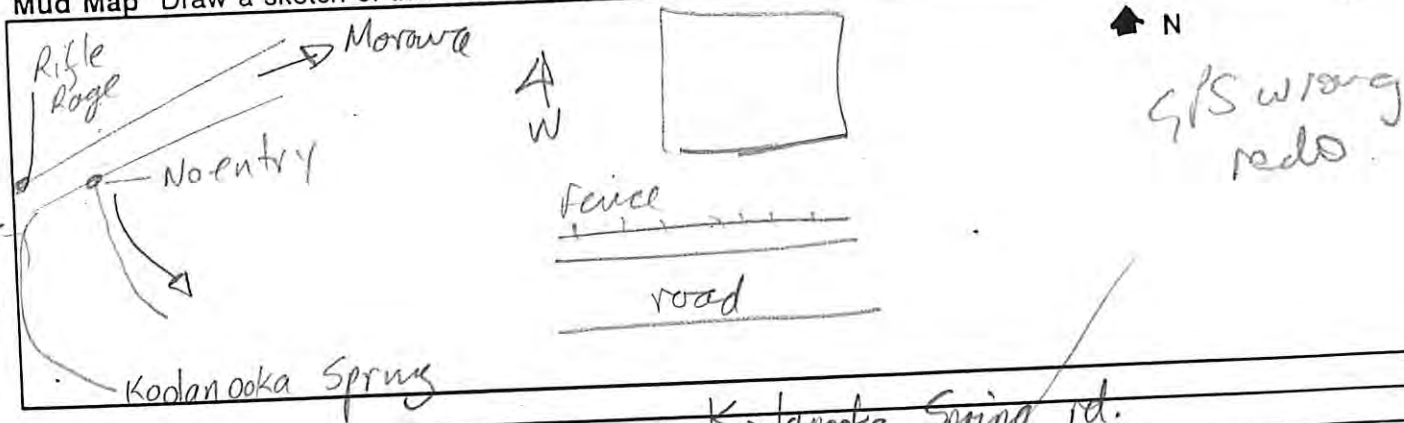
29° 12' 10.4" 116° 12' 58.4" 2.6
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Mo SITE NUMBER 14
DATE TRIP _____ RECORDERS _____
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 64 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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



Road Location

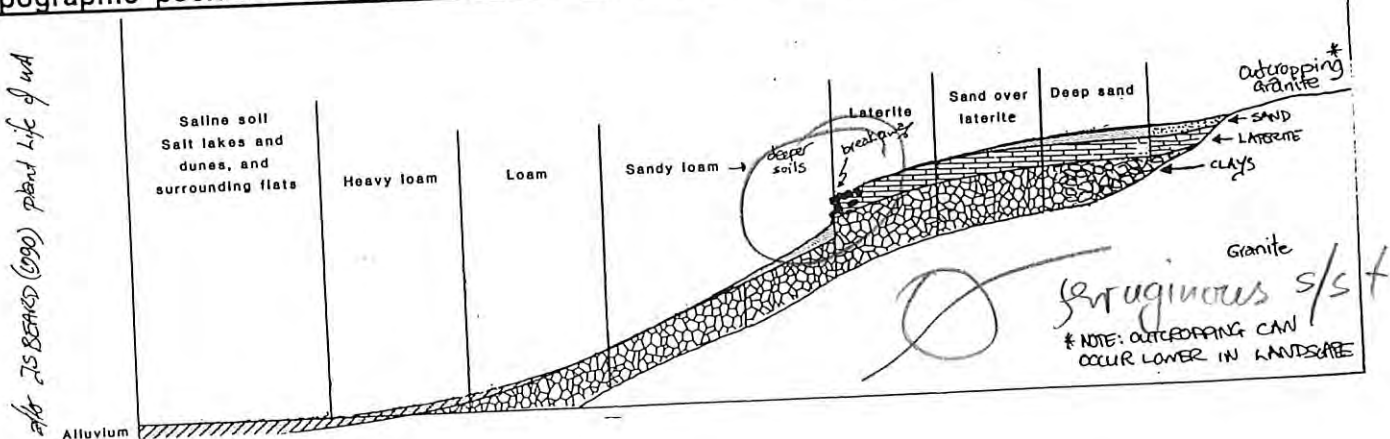
Geographic Location Latitude 29 12 02.1 S Longitude 116 13 58.0 E Altitude 3.0

Reference Map AMG fix off map - 423800, 6769300

Photo No 13

Photograph Photographer's Name NG

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	E	SE	S	<u>SW</u>	<u>W</u>	NW
Surface Soil	<u>sandy clay loam</u>							Colour	<u>red</u>			
Exposed rock	<u>type banded ironstone</u>							% surface	<u>30</u>			
Sub-surface Soil	<u>clay loam</u>							Colour	<u>red brown</u>			
Rock	<u>type banded ironstone</u>							depth to rock	<u>10-30</u>			
Drainage	well	<u>mod</u>	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>twigs, lvs, bark</u>		% cover	<u>30</u>	<u>50</u>	Bare Ground	now	<u>10</u>	<u>30</u>	% cover		
	<u>Depth 2-20</u>		cm				summer	<u>50</u>				

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					Euc. ebbano

SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30		2-10		2-10
DOMINANT SPECIES	Grevill. oxygy Ac. acumin Alloc. acutiv		Dav. benth Acacia Senna nemoph		Xanth. bungei

GRASSES		HERBS		SEDGES	
	over 0.5m		over 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	10/30	10/30			
DOMINANT SPECIES	Amphipog strictus Stipa Seleg	Helipt. splend Trachy. cyan Waltz acun			

Chelidanthus aust +

4. VEGETATION CONDITION

Comments

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

same +
Euc. loxophleba

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

TREES				SHRUBS (cont.)				HERBS (cont.)				No	FI	ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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SHRUBS Daviesia bentham Acacia acumin Xanthosia bungei Hakea (Gardner) minima Cassia nemophila Brevillea endogyna Utracia Dodonaea adnata Beyeria lechenaultii Adacia burkittii Mirbelia spinosa Pimelea aemula Allocas acutivalv				Monacather paradoxa Aira coryophyll didymobotrya ssp didymobotrya HERBS Cheilanthes austro- Helipterum splendid Trachym cynop Waltzia acun Stylidium elong Rhodanthe laevis Laurencella davenp Garden herard Trachym ornata Lobelia gibbosa Mitras parad Wahlenb preiss Gilbertia tenuif				SEDGES Myriocephalus guerneriae Erodium cygnorum Comesperma integrissima Cyanicula defomis Thysanotus mangles Caesia alfordii Hydrocotyle? Vellera cycnopol Acacia angustifolia ssp angustifolia				11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/8			11/

✓ Gordonia occident 29/10

ADJ Hemigonia sp. 25/10 (V.P.)
? ser. usala

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA MO (MORAWA) SITE NUMBER 15
 DATE TRIP 26/10/1998 RECORDERS N/G
 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 64 Nedlands WA 6008.

1. LOCATION of the QUADRAT

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

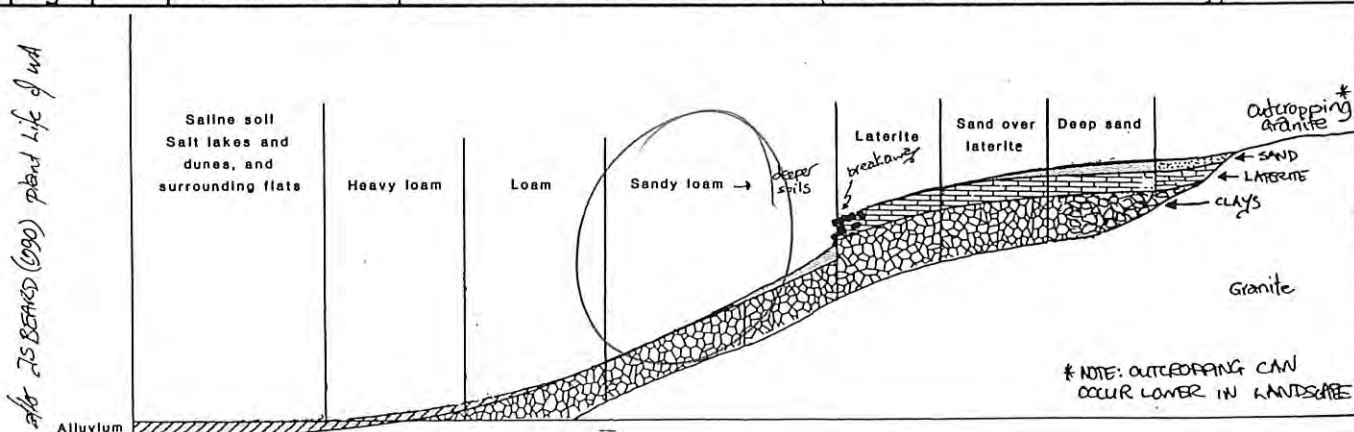


Road Location Pinthuruka Dam Rd

Geographic Location Latitude 29 04 57.8 S Longitude 115 59 23.9 E Altitude 30
 Reference Map AMG - 401699, 6782417

Photograph Photographer's Name NG Photo No 20

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 loam - gritty **Colour** brown
Exposed rock type % surface 0

Sub-surface Soil clay loam **Colour** brown
Rock type ? granite depth to rock > 1m

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

Litter twigs 1/5 % cover 70/90 **Bare Ground** 10/30 % cover
 Depth 2-10 cm

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					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					30/50
DOMINANT SPECIES					Euc. <i>terrestris</i>
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20	10/20			2-10
DOMINANT SPECIES	Acacia Grevill. oncy	Macromyrtus Mel. cordata			Banksia
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2/10	≤ 20			10/20
DOMINANT SPECIES	Stipa elegant	W. acun Trachy. cyanop			Ecdpicolea m

4. VEGETATION CONDITION

Comments

excellent
same rabbit grazing

$$20 \times 20$$

Euc. andersonoides -

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

Record on Sheet

ust for

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Mo (Morawa) SITE NUMBER 16

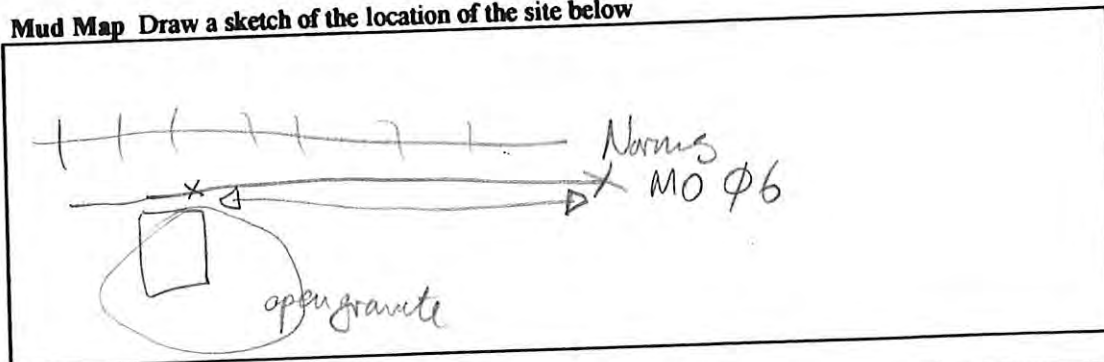
DATE TRIP 26/10/1998 RECORDERS NG/GK

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location A Cannan NR

Geographic Location Latitude 28 52 54 S Longitude 115 50 58 E Altitude 39.4
GPS Accuracy 2.9
Map Sheet

Photograph Name NG Number 22

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

2. SITE DATA Circle the correct response

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

Surface Soil gritty sandy loam Depth to Rock 0-20cm Colour red brown

Exposed Rock type granite % surface cover 30 size range sheet

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

Bare Ground % surface cover 30 (herbs/water)

AMG
387300
6804543

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- 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 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	under 0.5m
LIFE FORM				
COVER CLASS (%)				2
DOMINANT SPECIES				Mitelia spinosa

GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20	50/70			<1
DOMINANT SPECIES	Vulpia Bromus Avena	Boraginifera Calandrinia			

4. VEGETATION CONDITION

Comments

excellent — very good — (rabbits)
some patches weedy grasses

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No MO 16
Date 26-10-1998

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
								Calandrinia granule			
								Crassula sieberiana			
								Hypoch glabra			
								Polygonolepis			
								Schoenus (elegans)			
								Cheilanthes austro-ten			
MALLEES								Drosera			
				GRASSES							
				Avena barbata							
				Briza maxim							
				Vulpia myuros							
SHRUBS				Bromus rubens							
Murbeia spinosa				Aira caryophylla							
				Pentstemon albid							
				Lamarkia aurea				✓ Brachycome perpusilla	11/8		
				Acistida contorta				Drosera bulbosa	11/8		
				Stipa ?-ichophylla				✓ Centrolepis laevis cephalot	11/8		
				HERBS				✓ Trielochin calcitrapa inc	11/8		
				Borja nitida				✓ Isotepis cernua	11/8		
				Calandrinia (pink)				✓ Hydrocotyle diantha	11/8		
				Schoenus cassin				✓ Calandrinia calyptata	11/8		
				Volleia rosea				Ophioglossum lusit	11/8		
				Hyalosperm demiss				✓ Crassula cibrata var acum	11/8		
				Waitzia acum				Drosera glanduligera	11/8		
				Arctostheca calend				C			
				Ursinia anthem				Thys paterson	11/8		
				Laurencella davenp				Drosera menziesii	11/8		
				Goodenia herodian				Thelymitra antennigera	11/8		
				Schoenus nanus							
				Blennosp drumm							
				Halorag trigonoc				Wheat (Triticum)			

slender
sensil

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Mo (Morawa) SITE NUMBER 17

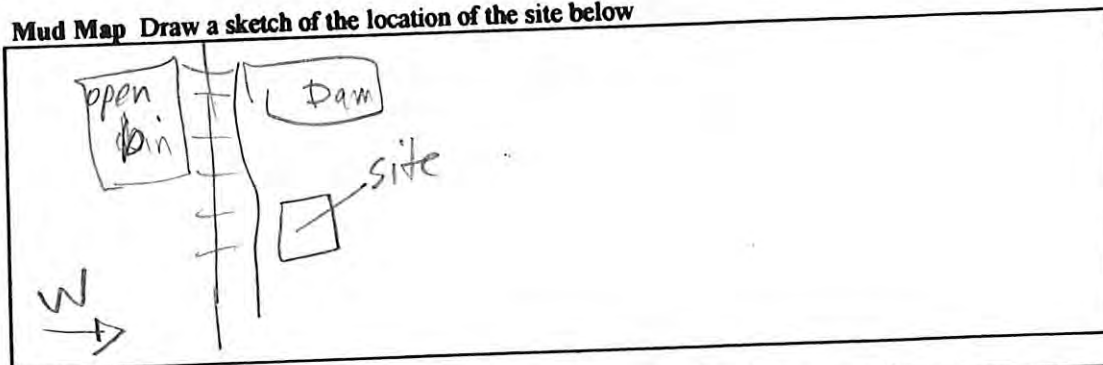
DATE TRIP 26/10/1998 RECORDERS NG/GK

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location Canna Shire / Water Reserve

Geographic Location Latitude 28 51.4 S Longitude 115 51.3 E Altitude 200
GPS Accuracy
Map Sheet

Photograph Name NG Number 23

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 clay Depth to Rock over clay Colour red

Exposed Rock type — % surface cover none size range —

Litter logs, twigs, vs % surface cover 30/40 Depth (cm) 2-15

Bare Ground % surface cover 30/50

AMG
388769
6802812

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 (%)					30/40
DOMINANT SPECIES					<i>Euc. redunca</i> " <i>? gracilis</i>
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10/20		10/20	< 2
DOMINANT SPECIES		<i>Ac. hemiteles</i> <i>Grav. onychy</i>		<i>Ac. acutaria</i>	
GRASSES		HERBS		SEDGES	
	over 0.5m	under 0.5m	over 0.5m	under 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2/10	30/40			
DOMINANT SPECIES	<i>Amphip. strict</i>	<i>Wartzia murea</i>			

4. VEGETATION CONDITION

Comments

excellent

20x20

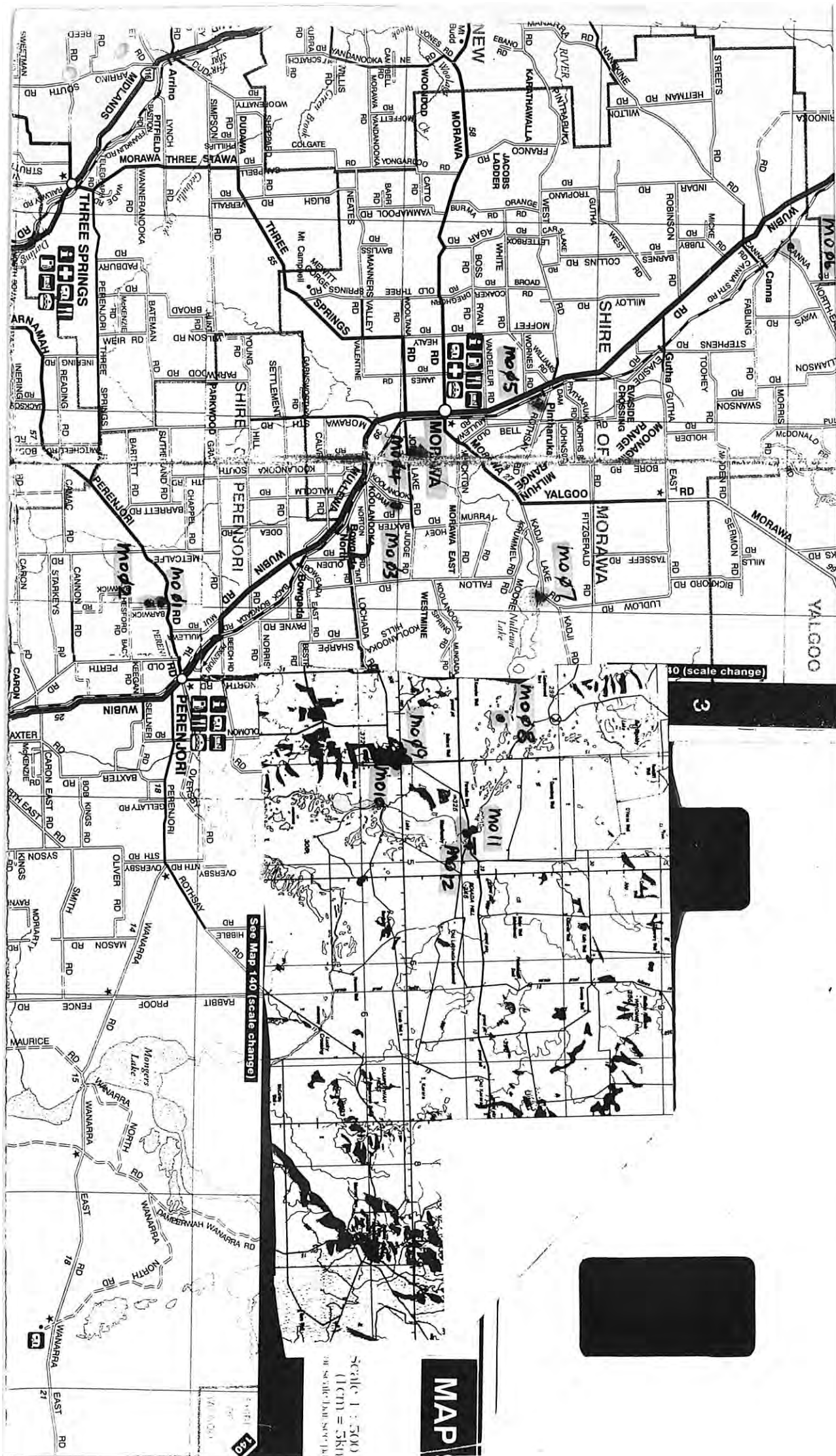
Label each plant with plants number, site code, date and plant's name or working name if required

Record on Sheet

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

same

Euc. (redunca) (smth, grey bk, brandeist red
hypochlam 5m buds red green) ~~*Euc. 2*~~ rough grey bark, 1-2m
(*oleosa*) (*Kochii* ssp *pleurostoma*) upper smth grey, lvs green



MAP

Scale 1:500
(1 cm = 5 km)
See Scale Bar on page 140

See Map 140 (scale change)

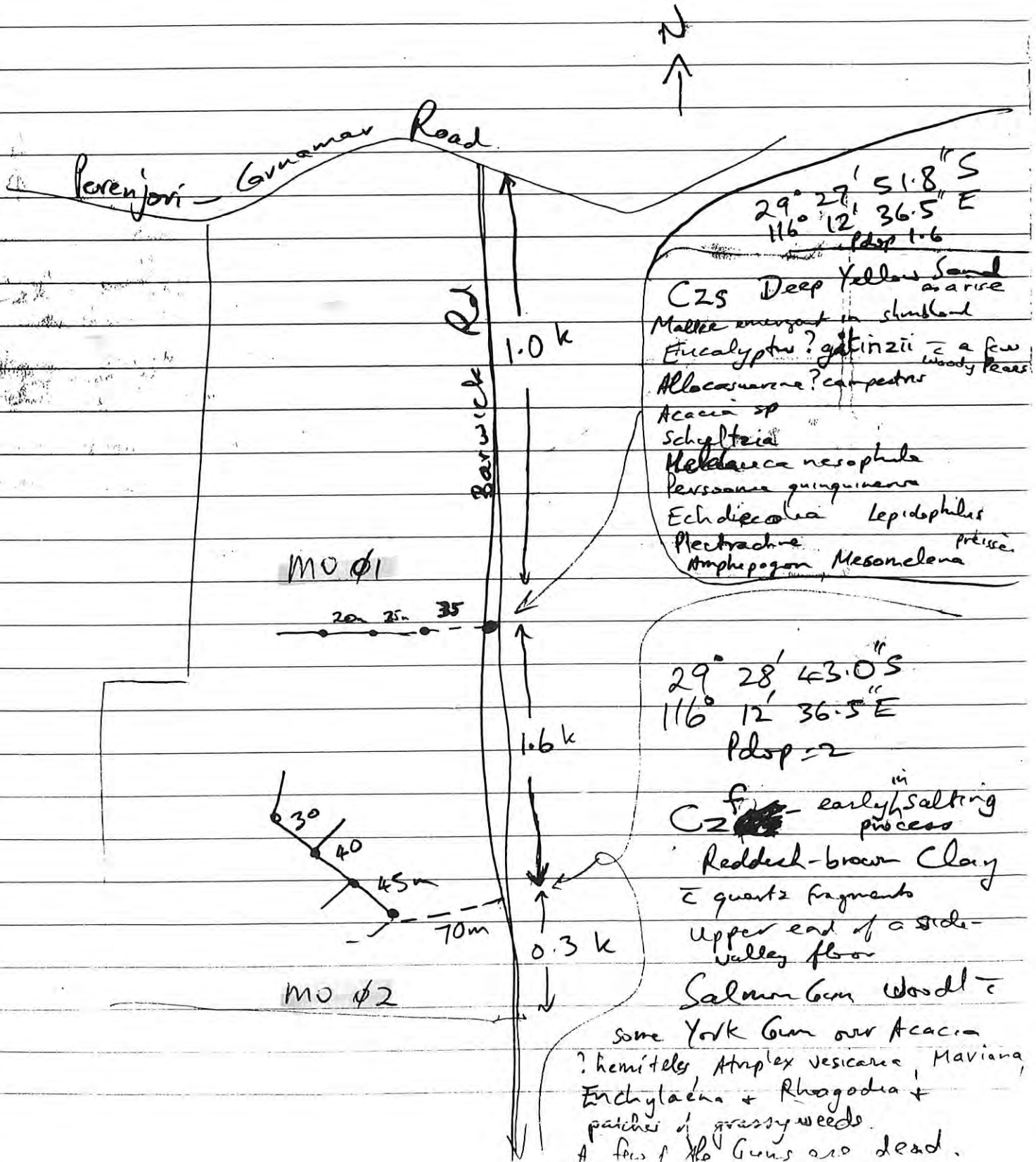
10 (scale change)

3

Band 1, Mo Morawa Survey Area

West Perenjori Nature Reserve

8K West of Perenjori



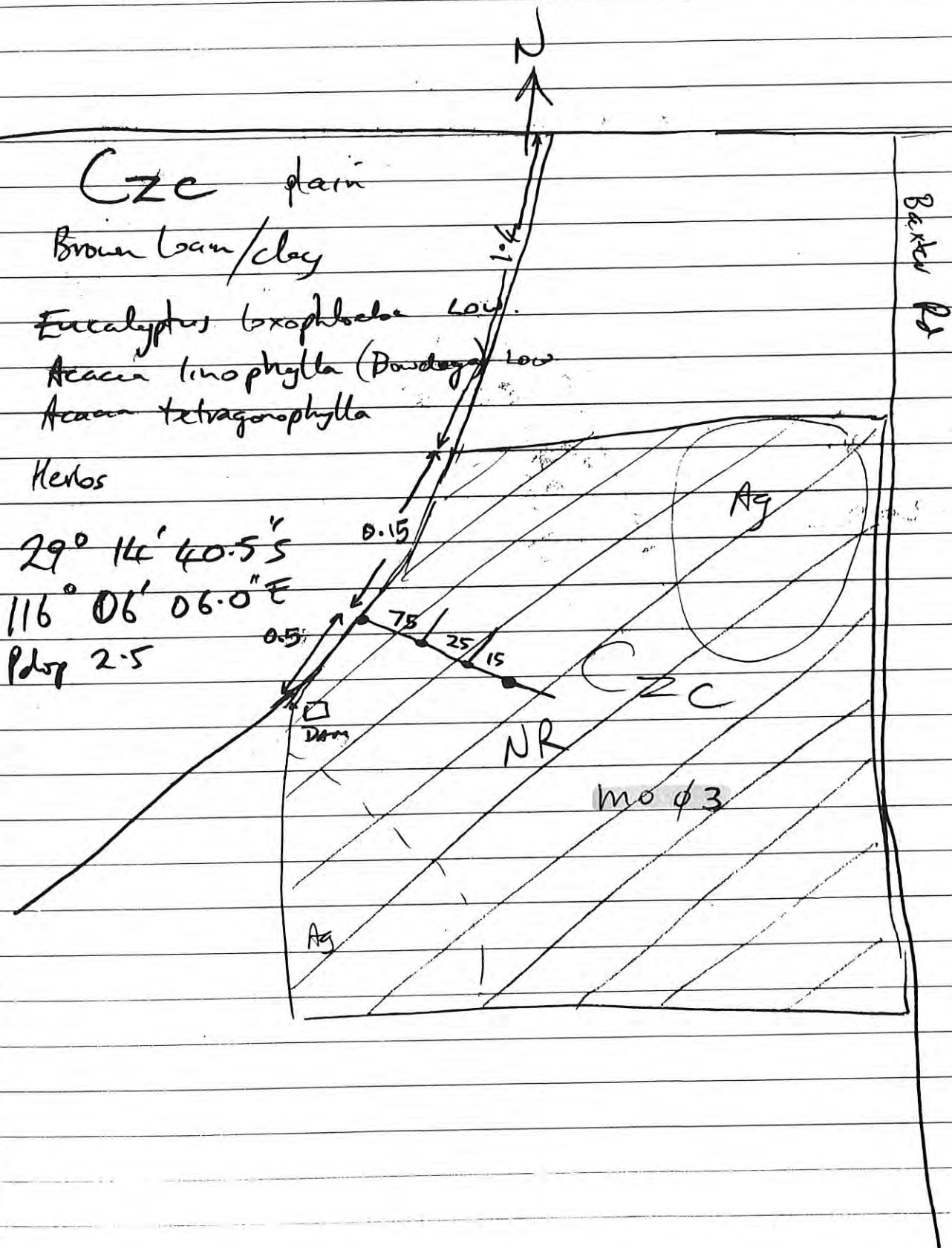
BAND 1

Morawa Survey Area

Nature Reserve

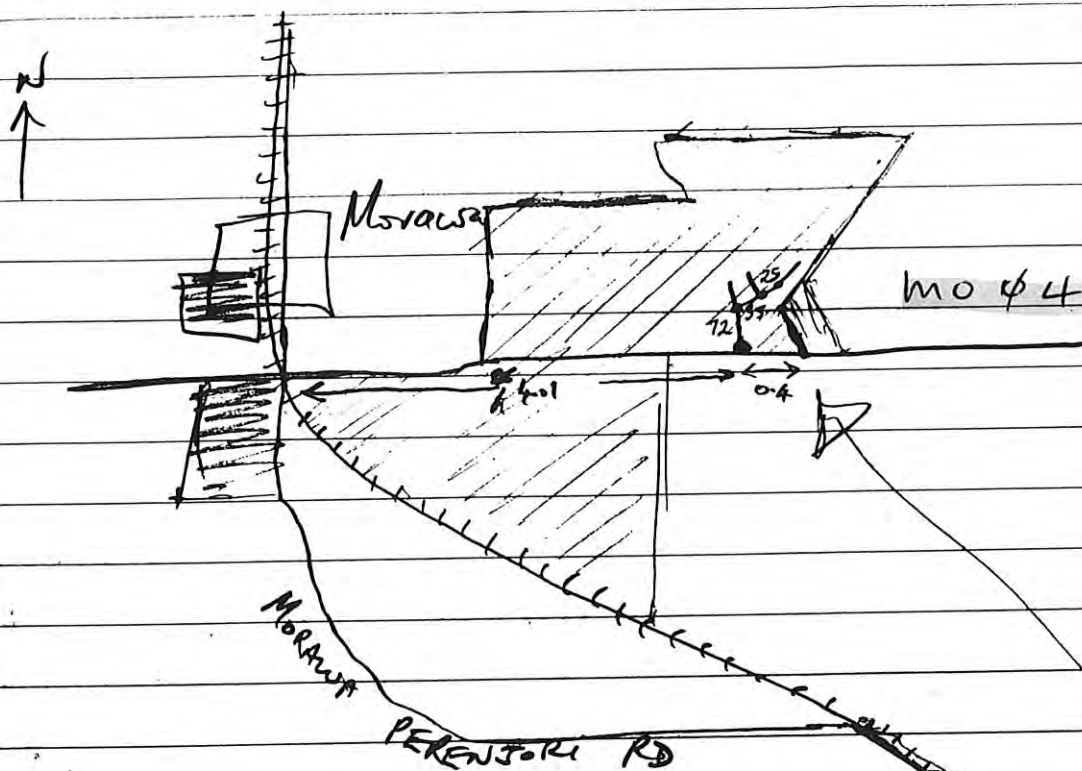
10 km ESE of Morawa

72
25
15



BAND 1 MORAWA SURVEY AREA

Leased Crown LAND 6 km ESE of Manawatu



Q1 - Drainage floor - samphire

Secondarily saline / waterlogged

Dead Melaleuca - saltbush flat

~~Dead Melabara~~

Atrplex

Holoserena

Frankenies

Herbs

29° 13' 56.4" S

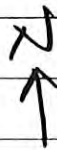
116° 04' 08.0"E

Prop 2.2

8 AND 1 Morawa River Area

Puntharuka Nature Reserve

12 k N of Morawa



$29^{\circ} 06' 00.1'' S$

$115^{\circ} 59' 35.4'' E$

$P_{top} = 3$

CZR Cenozoic sand
Sheet with gravel at depth

Shrubland of *Acacia*

? *linophylla*

A. sp. + Allocasuarina
acutivalva

Flakea invaginata

Grevillia petrophila

Thryptomene

Echidnaria

Amphipogon

Puntharuka
Siding

1.45

mo 05

0.15

20

20

30

Puntharuka
Cemetery
Turn
Off

Band 1

Morawa Survey Area

Canna Nature Reserve 40 km NW
of Morawa



Granite complex

Shrubland

Calicopetalus

Jam

Acacia longispina

Melaleuca ? viridula

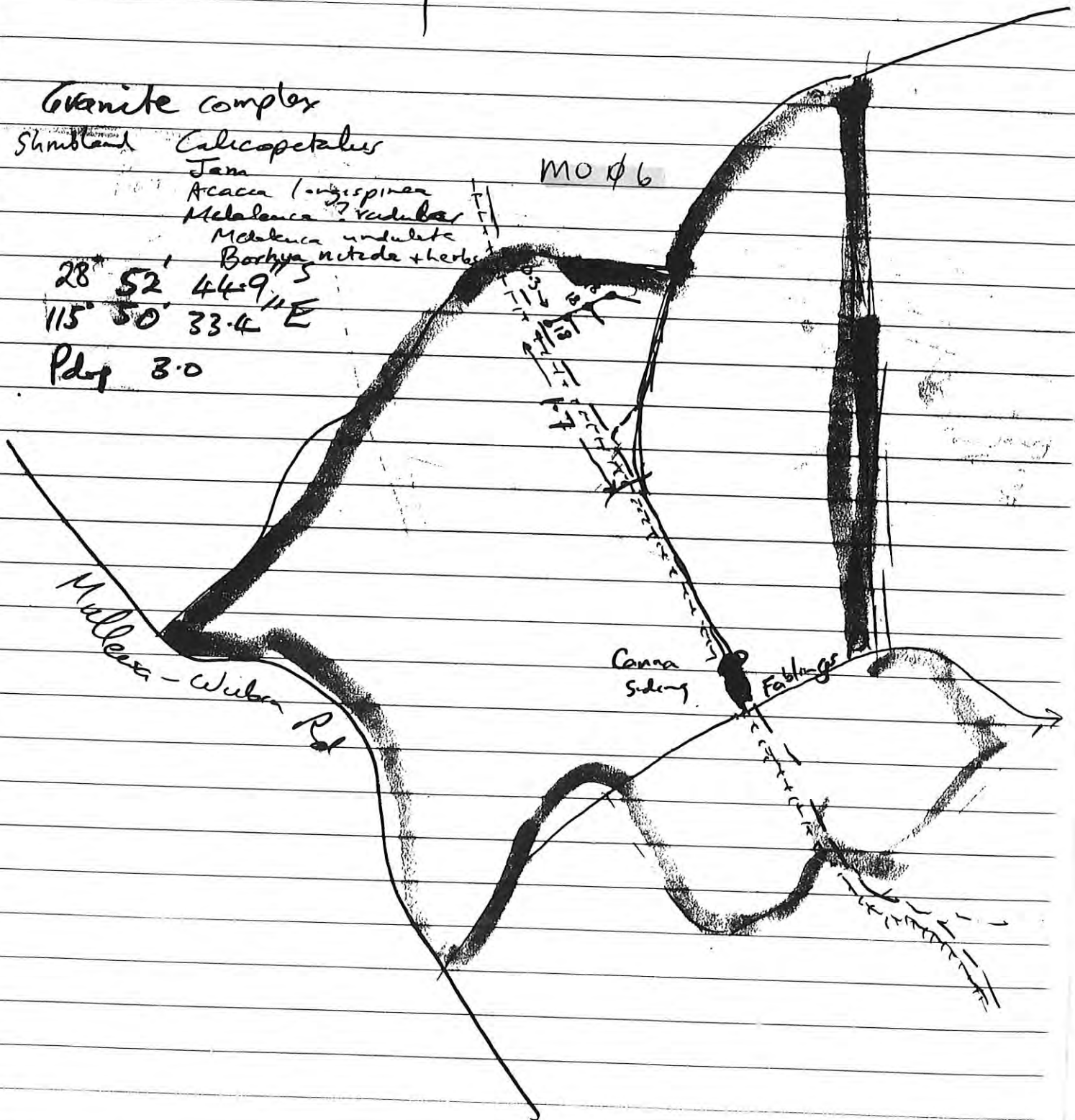
Melaleuca undulata

Borhya nitida + herbs

MO 6

28° 52' 44.9" S
115° 50' 33.4" E

Pdop 3.0



Band 1 Morawa Survey Area
Shire Reserve 22 km NE of Morawa

N
↑

CZC (salted)

Dead York Gums

$29^{\circ} 06' 35.5'' S$

$116^{\circ} 11' 51.4'' E$

Acacia tetragynophylla + other Acacia Posp = 2.4

Rhagodia

Endelma

Herba

Cataria
Spring

Kadji Kadji
Mill

1.7

1.4

Morawa

20° (K
(To Morawa Rd)

Drainage

Channel

mo p 7

NULLEWA
LAKE

Band 1 Morawa Seeray Area
4.1 km North along Bwerline
32 km E of Morawa

Old - near pristine but grazed brown loam on clay

Melaleuca strobilifera

Halimolobos preissii

Scaevola *Halosarcia halocnemoides*

Saltbush (*Atriplex*) *Gumicopsis* + 50+ herb species

29° 10' 18.4" S

116° 23' 16.4" E

Pdop 2.2

N

MO 68

SECTION LINE

Grazing
Lease

Mugader Rd

Mac's
Bore

NR

Band 1

Morawa Survey Area

Un-named Nature Reserve

33 km E of Morawa



Mac's Bore



$29^{\circ} 15' 13.0'' S$
 $116^{\circ} 22' 05.5'' E$
P.dap = 2.6

clayey-sandy
CzL = sandy/gravel
on sheet laterite

scrub &
Eucalyptus
Melaleuca & Schulzera

over Amphipogon (bunch grass)
herbs & granite rock fern

MO 09

2.1 km

MO 10

0.2

Lochada Rd

2.6

Solomon Rd

Granite ~~top~~ apron
Surface Red loamy clay
+ some granite
at shallow depth

Low Woodland of

Jam, *Acacia* acuminate
Eucalyptus loxophloeos
Dodonaea (low) + Wattle shrubs
Allocasuarina acutivalvis (tall)
Amphipogon (bunch grasses)
Herbs & rock ferns

$29^{\circ} 15' 34.4'' S$

$116^{\circ} 23' 00.1'' E$

Band 1 Morawa Sunny Area
Grazing Lease

45.5 k E of Morawa

Czk - valley calcrete
mantled ^{loamy} brown clay + calcrete sheets
Scattered *Eucalyptus* *torophlaeba*
Acacia *ofraspedocarpa*

N
↑

Selbush *Atriplex* *vesicaria*

Exocarpos *aphyllus*

Eremophila *alternifolia*

Arctostaphylos *obovata*

Herbs + Bush Grass

Mungada Rd

South
Parade
Bore

MO 11

66 km

Fence
Cleared

Parade
Bore

Camp

MO 12

Weelhamby
Lake

Mar
Bore

Q1 semiphere flat
loamy clay

29° 11' 23.7" S

116° 27' 07.7" E

Plog 3.0

Use 1.1/100 000
Recon/ae. map

MO

Trichogone tuberosa

→ Trichogone sp. nov.

18. *Astartea fascicularis* - stamens connate, 3 locules.
 19. *Baeckea crispiflora* - bracteoles, dehiscence of stamens, ovary division.
-

Proteaceae specimens

1. *Hakea petiolaris, laurina* - leaves flat, same both sides (concolorous) (v. *Grevillea*). SEEDS AVAILABLE
2. *Hakea lissocarpa* - leaves terete, inflorescence axillary.
3. *Grevillea crithmifolia* - inflorescence terminal.
4. *Grevillea armigera* - leaves very tightly revolute.
5. *Grevillea vestita* - regular flowers, swollen style.
6. *Dryandra sessilis* - fruiting head available.
7. *Banksia candolleana, micrantha* - fruit available.
8. *Persoonia saundersiana* - leaves opposite or alternate, ovary stipe, short style, stigma in bulge, fruit available.
9. *Isopogon adenanthoides* - (+ selection), fruit available, notch in pollen presenter (only in *Isopogon*), tufts on tepals, few seed set.
10. *Petrophile scabriusculus* - seeds available, fruit scales larger and fewer.
11. *Stirlingia latifolia* - capitate, lobed stigma, stamens not in concavity, tips divergent, ovary hairy, fruit a nut, leaves divided.
12. *Conospermum acerosum* - floral bract, anthers remain within tube (boil up to see), some anthers abortive, fruits top-shaped.
13. *Synaphea flabelliformis* + ?*gracillima*, reticulated leaves, fruits ellipsoid.
14. *Lambertia ericifolia* + *multiflora*, fruit available.
15. *Adenanthos meisneri*, fruit available
16. *Conospermum flexuosum*
17. *Strangea* - fruit only (own tribe, 2 spp. in WA, rest in east).
18. *Xylomelum* - fruit only, opposite leaves.
19. Extra *Grevilleas*