

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER Ø1
 DATE TRIP 2-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 4-10-1999 RECORDERS AW/NG/GK/KD/AM
 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.



NORM

Road Location

NORM

Battalling Rd / Poolading NR

Geographic Location Latitude

NORM

S Longitude

E Altitude

Reference Map

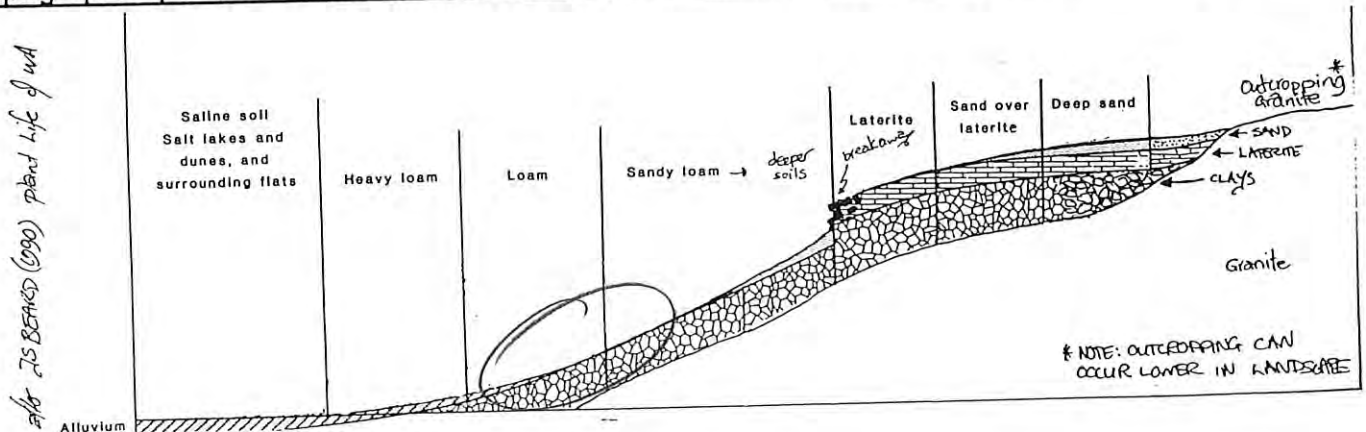
Photograph

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.

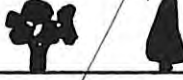
Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	E	<u>SE</u>	S	SW	W	NW
Surface Soil	type <u>gravelly clay</u>							Colour <u>brown</u>				
Exposed rock	type _____							% surface _____				
Sub-surface Soil	type <u>clay</u>							Colour _____				
Rock	type <u>laterite</u>							depth to rock _____				
Drainage	well	<u>mod</u>	poor	depth water	cm	Wet	all year	winter/spring				
Litter + twigs, lvs, dead herbs	% cover <u>70/90</u>			Bare Ground	% cover <u>10/20</u>							
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			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	2/10				
DOMINANT SPECIES	Euc wandoo				
	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10/30			30/70
DOMINANT SPECIES		Allocas hum Hakea prst			Lech. biloba Hibbertia Gonocarpus
	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/30				10/30
DOMINANT SPECIES	Stipa eleg				Desmodi asper

4. VEGETATION CONDITION

Comments

local weeds (Aven. barbata) under large trees
excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

plant's name or working name if required

5. SPECIES PRESCENCE

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

Record on Sheet

• Column 1 plant name

- Column 2 plant number

• Column 3 flowering time- tick if species
 classification check

• Column 4 Identification check

SITE No DA 01

Date 2-5-1999

4-10-1999

Drasera " metallica

20x20

Same

Dianella brevicaulis

[illegible]

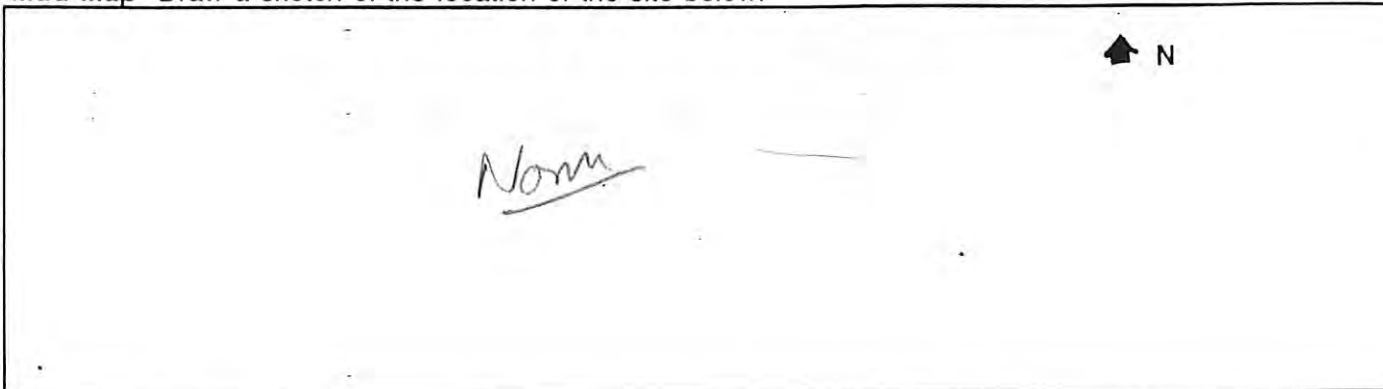
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 02
 DATE TRIP 29-4-1999 RECORDERS NG/AW/GK
 DATE TRIP 4-10-1999 RECORDERS NG/AW/GK/KD/AM
 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.

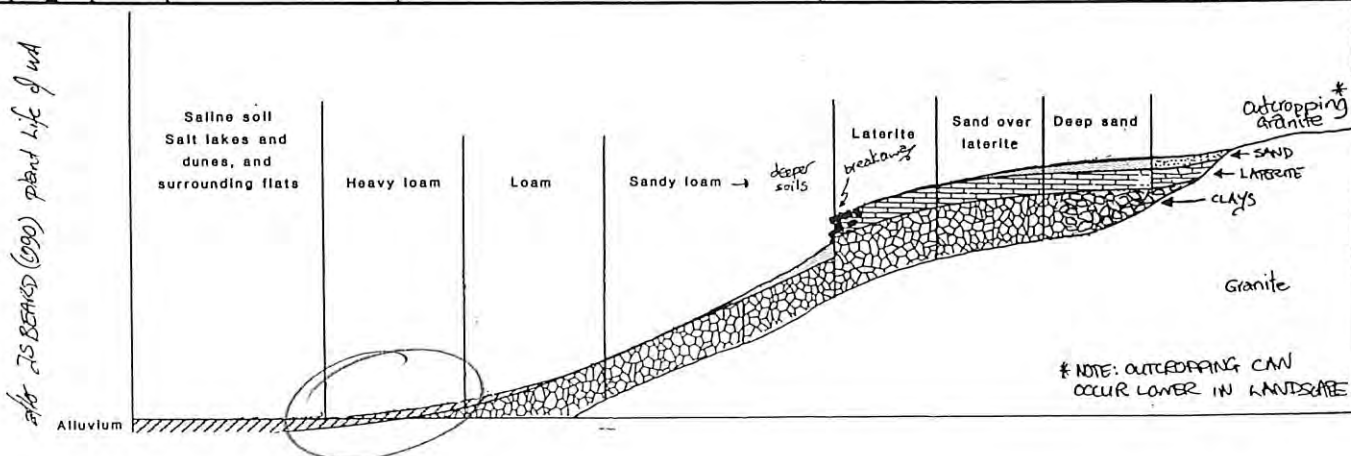


Road Location Batalling Rd / Booleading NR

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 sandy clay Colour dk brown
 Exposed rock type _____ % surface _____

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

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

Litter logs % cover 10/20 Bare Ground 50/70 % cover (herb spring)
 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.

	TREES			MALLEES	
	over 15m	5 - 15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	< 2				
DOMINANT SPECIES	Dead Euc Wandoo				
	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30/50				10/20
DOMINANT SPECIES	Mel. viminea				Halosarc halocn
	GRASSES	HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)		? 30			
DOMINANT SPECIES		Centrol. polygyna			

4. VEGETATION CONDITION

Comments

salt affected
Wandoo dead

20720

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 DA 02
Date 29-4-1999
4-10-1999

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

same

TREES

dead E. wandoo

MALLEES

SHRUBS

Melaleuca viminea ✓
Halosarcia indica ✓
Samolus junceus ✓

SHRUBS (cont.)

GRASSES

HERBS

Pogonolepis
Triglochin (mucronata)

HERBS (cont.)

4/10/1999
Cotula coronopifolia
Ruppia ~~meadensis~~ polycarpa (vsp)
Hypochaeris glabra
Lobium rigidum
Juncus butonius
Centrolepis Spolygyna
Isoplepis curvata

SEDGES

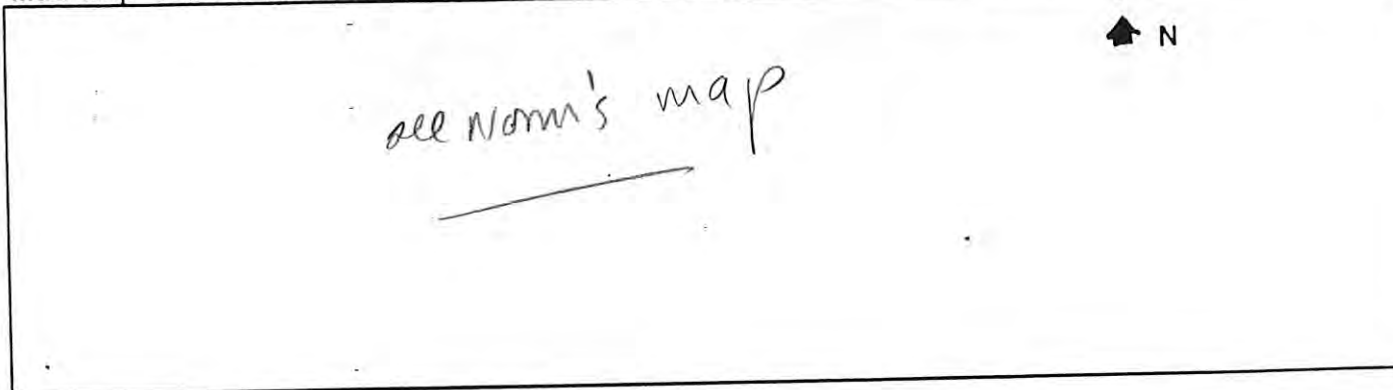
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 03
 DATE TRIP 29/4/1999 RECORDERS NG/AW/GK
 DATE TRIP 4/10/1999 RECORDERS NG/AW/GK/KD/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 BUNCE KING ROAD

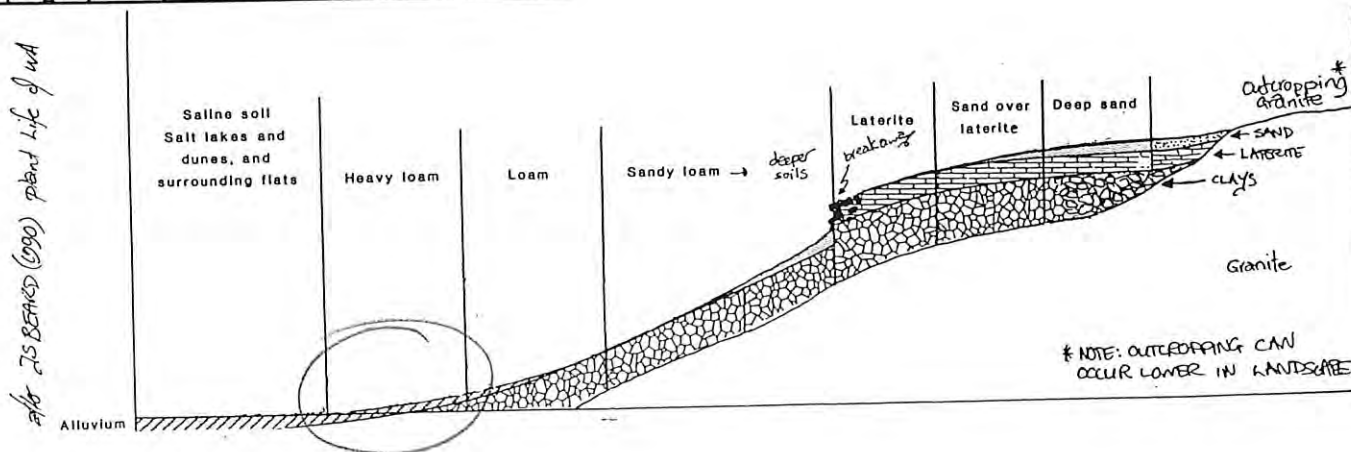
Geographic Location Latitude 33 18 47.3 S Longitude 116 48 21.8 E Altitude _____

Reference Map _____

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 sandy clay Colour fawn
 Exposed rock type NONE % surface _____

Sub-surface Soil sandy clay Colour fawn
 Rock type ? clay depth to rock >1m

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

Litter VG, + twigs % cover 30-70 Bare Ground 0/10 %cover _____
 Depth 2/3 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					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	2/10				
DOMINANT SPECIES	<i>Euc. wandoo</i>				
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10				<2
DOMINANT SPECIES	<i>Ac. acumin</i>				<i>Hakea tisseranthoides</i>
GRASSES		HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)	2/10	2/10		>70	
DOMINANT SPECIES	<i>Neosachne alopec</i> <i>Briza max</i>	<i>Kom. rosea</i> <i>Borja spharo</i>		<i>Desmod. asper</i> <i>Horperia latrifi</i>	

4. VEGETATION CONDITION

Comments

very good - excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20x20

5. SPECIES PRESCENCE

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

SITE No DA 03
Date 29-3-99
4-10-1999

Record on Sheet

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

wander

[illegible]

Hydrocotyle diantha -
Banya laciniata

Polypomphlyx multifid

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 04
 DATE TRIP 29-4-1999 RECORDERS AW/NG/GK
 DATE TRIP 4-10-99 RECORDERS AW/NG/GK/RO/ADL
 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.



Norm's map

Road Location

Duranillin - Bowelling road

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

Photo No *29*

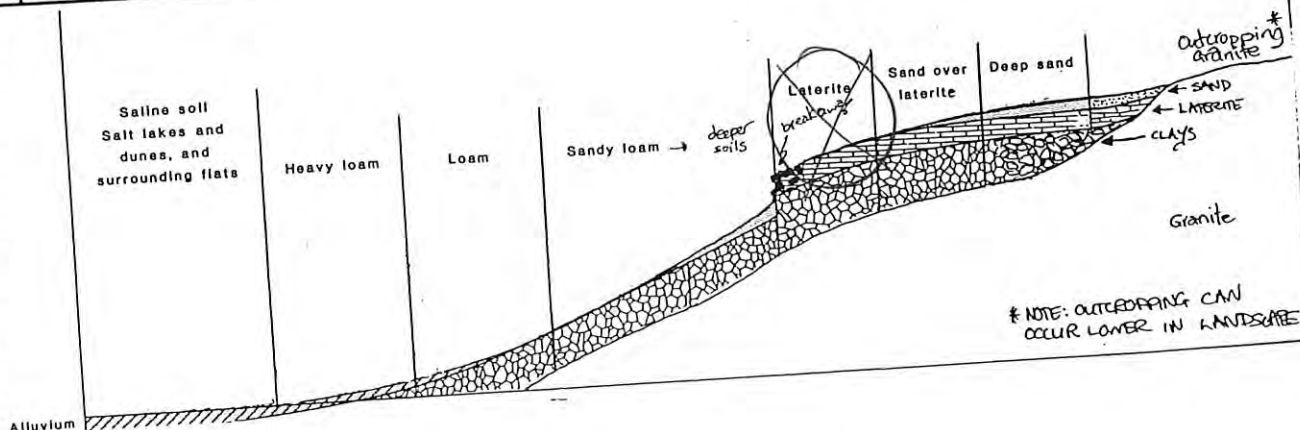
Photograph

Photographer's Name

NG

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

after 75 BEARS (1999) plant life of mud



2. SITE DATA Circle the correct response.

Slope		☒ flat	☐ gentle	☐ steep	Aspect		N	NE	E	SE	S	SW	W	NW
Surface Soil		sandy clay - laterite			Colour		brown							
Exposed rock		type laterite			% surface		22							
Sub-surface Soil		ditto laterite			Colour		dark 50 cm							
Rock		type			depth to rock		cm							
Drainage		☒ well	☐ mod	☐ poor	depth water		cm		Wet		all year		winter/spring	
Litter		US, twigs			% cover		70/90		Bare Ground		10/20		%cover	
		Depth					2							

3. VEGETATION STRUCTURE AND COVER

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

Logged in past / very good
burnt ca 4/5 yrs ago

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

Record on Sheet • Column 1 plant name

Eur.

Record on Sheet

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

ne if required

Euc. calophylla

~~Hypoxis occident~~
- *Poranthera microphylla*
- *Tetraria octandra*
- *Trichochne spathul*

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 05
 DATE TRIP 2-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 5-10-1999 RECORDERS NG/GK/AW/KD/AM
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

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1. LOCATION of the QUADRAT

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



NORM

Road Location

NORM

/ Bokal Siding area

Geographic Location Latitude

NORM

S Longitude

E Altitude

Reference Map

Photograph

Photographer's Name

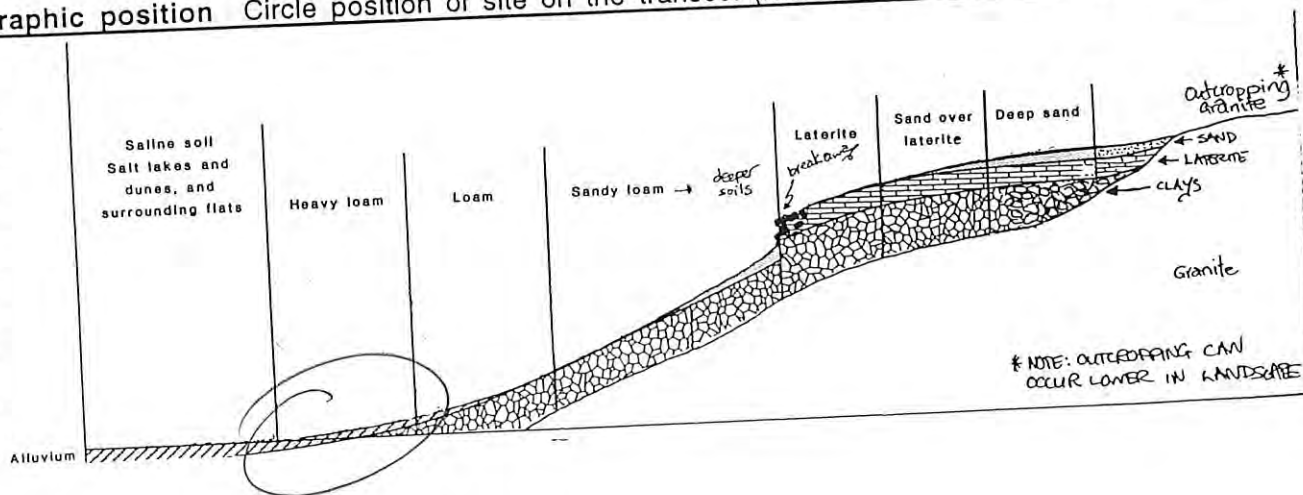
NG

Photo No

11

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

also 75 BEARS (990) plant life of wd



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>brown</u>
Exposed rock	type	% surface	
Sub-surface Soil	<u>clay</u>	Colour	
Rock	type	depth to rock	
Drainage well	<u>mod</u> poor	depth water ?	cm
		<u>Wet</u> all year	<u>winter/spring</u>
Litter	<u>lv, dead herbs</u>	% cover	<u>50/70</u>
Depth	<u>2-5</u>	cm	
		Bare Ground	<u>20/30</u>
		% 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.

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

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 				
COVER CLASS (%)					< 2
DOMINANT SPECIES	<i>Melaleuca viminea</i>				<i>Acacia lasiocarpa</i>

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM	 	 	 		
COVER CLASS (%)		20/30	10/30		30/70
DOMINANT SPECIES	<i>Brya max</i>	<i>Brya</i> / <i>scirpoid</i> <i>laciniata</i>	<i>Gahnia trifida</i>		<i>Chorizandra enodis</i> <i>Meiboldia - cana</i> <i>Desm. asper</i> <i>Harporia latriflora</i>

4. VEGETATION CONDITION

Comments

— dead trees nearby
? — salt

20 x 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
- Column 2 plant number
- Column 3 flowering time- TICK if species flowering
- Column 4 identification check

5/10/99

Euc. w

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
			Euc. wandoo (dead)				5/10/1999 Stylidium cinereum Podolepis gracilis Ursinia anthemoides Laxmannia minor Aphelia drummondii Isoplepis cernua Schoenus plumosus				5/10/1999 Aira caryophylla Verticordia Drosera glanduligera Diuris laxiflora (USP) Centrolepis aristata Parentucellia latifolia Polypomphlyx multiflora Philadelphella pygmaea Siloxerus multiflorus Trifolium dubium Homeria glauca Hydrocotyle alata
			MALLEES				GRASSES Nerachne alopec Stipa elegantiss Briza minor Briza maxima				SEDGES Meibomia cana (USP) Lahnia trifida (USP) Harperia latriflora Desmodios asper Chorizandra endis Lepidosperma angustifolia (USP)
			SHRUBS Acacia lasiocarpa Melaleuca viminea Hibbertia Templetonia sulcata Kunzea micrantha				Danthonia				
			5/10/99 Brasophyllum ovale Isoplepis marginata Dodonaea pinifolia (USP) Brasophyllum macrostachyum (USP) Drosera rotundifolia Verticordia hirsuta Calandrinia grandiflora Thelymitra aff. maculata Stylidium ecome Cibicides filiformis Stipa elegantiss Stylidium pinnatifidum				HERBS Hypochaeris glabra Parentucellia latifolia Dianella brevifolia Brya (sphaerocarpa) - scirpoid Rohdea rosea Juncus capitatus Microtis media Ursinia anthem pauiflor				5/10/99 Blechnum drumm Brachycome filicoid Drosera (yellow) nearctic ssp. nearctic Tribonanthes longipet Lomandra micrantha Templetonia sulcata Morchia erecta Thysanotus manglianus Eitharta longifolia

✓ *Ophioglossum coriaceum*

Dodonaea crinitosa

arevose w.r. preis: Vsp

pt. lotus? holser s/10.
Dumetia Lindley ii s/10

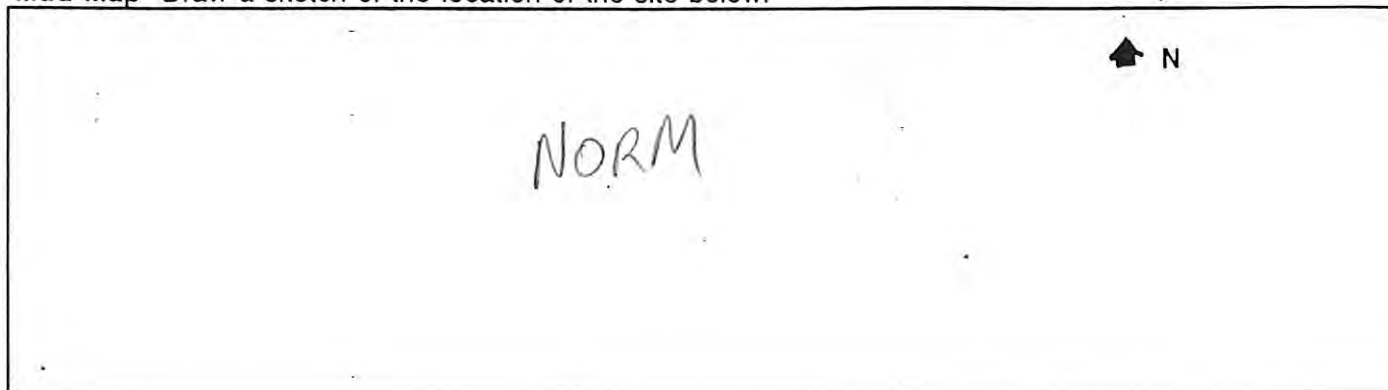
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 06
 DATE TRIP 2-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 5-10-1999 RECORDERS AW/NG/GK/AM/KD
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

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1. LOCATION of the QUADRAT

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

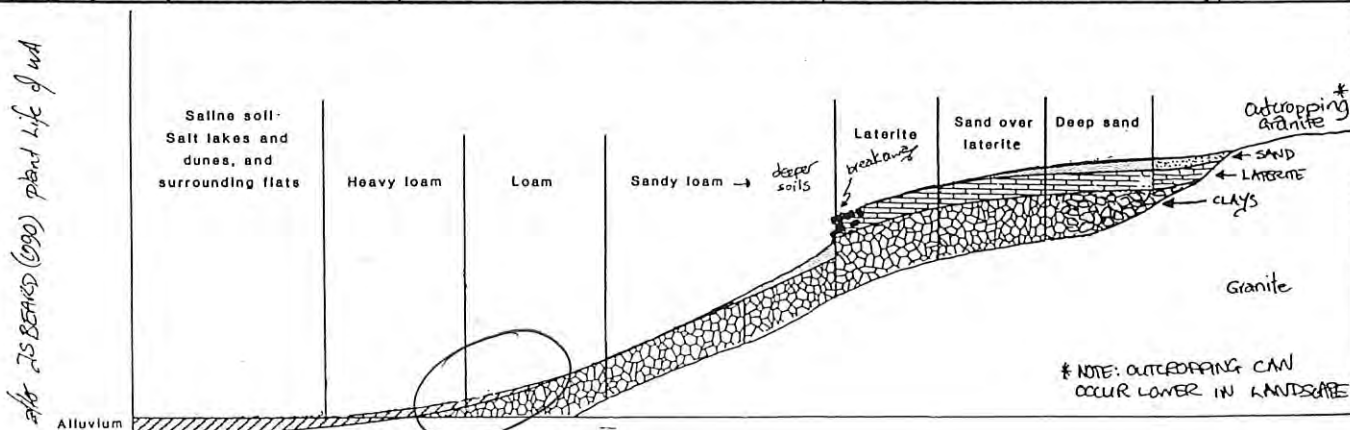


Road Location Dead Horse Swamp NR

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

Photograph Photographer's Name NG Photo No 13

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



2. SITE DATA Circle the correct response.

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

Surface Soil lateritic sand Colour grey
 Exposed rock type _____ % surface _____

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

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

Litter WS twigs % cover 30/70 Bare Ground 20/30 %cover _____
 Depth 2 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 (%)	2-10	10/20			
DOMINANT SPECIES	<i>Euc. wandoo</i>	<i>Allocas hueg</i>			

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/30				2-10
DOMINANT SPECIES	<i>Dryandra sess</i> <i>Santalum acum</i> <i>Hakea pist</i>				<i>Hakea lissocarpha</i> <i>Bossiaea eriokarp</i>

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10				30/70
DOMINANT SPECIES	<i>Briza max</i> <i>Stipa trich</i>	<i>Stypandra imbric</i> <i>Waltzia aurea</i>			<i>Hyperba latrifi</i> <i>Lepidosp knue</i>

4. VEGETATION CONDITION

Comments

very good - excellent
grassy weeds

Form also over 8710

20 x 20

Silene gallica

- Column 1 plant name

- Column 2 plant number

• Column 3 flowering time- TICK if species flowering

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

name	if required
	<i>Silene gallica</i>
same	<i>Schoenus unispicus</i>
5/10/99	<i>Caladenia dilatata</i> WSP
	<i>Oxalis perennans</i>

Galium muricula

Calandrinia calyptrotz (W)

Sin verbena laxiflora

Triglochin ~~nov~~ (chlorophyll)

Caladema flava

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 07
 DATE TRIP 2-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 5-10-1999 RECORDERS AW/NG/GK/AM/KD
 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.



NORM

Road Location Dead Horse Swamp Nature Reserve

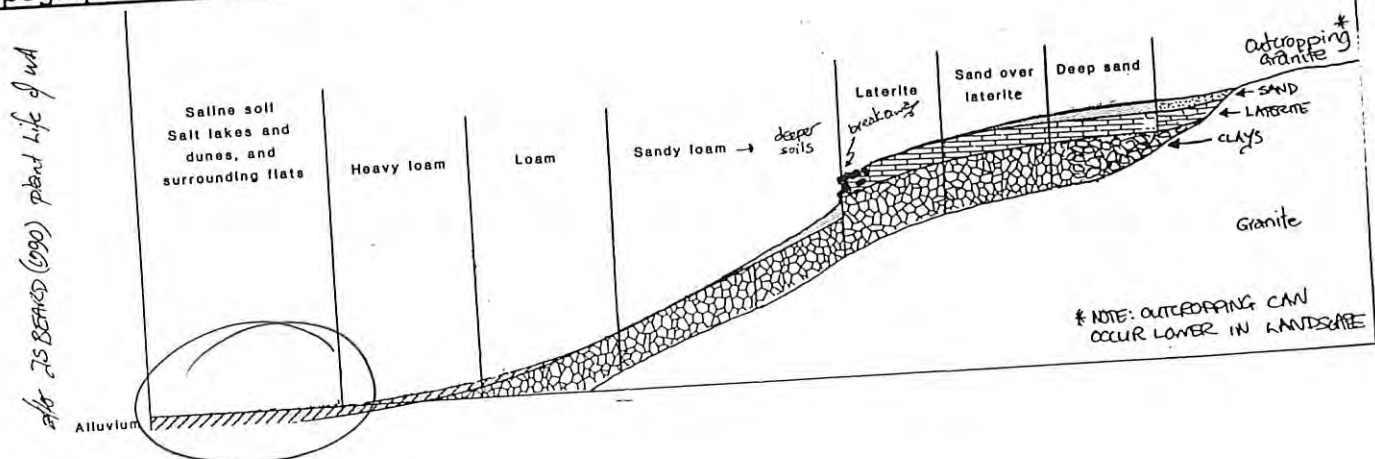
Geographic Location Latitude NORM S Longitude _____ E Altitude _____

Reference Map

Photo No 12

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	<u>flat</u> gentle steep	Aspect	N NE E SE S SW W NW
Surface Soil	<u>clay</u>	% surface	Colour <u>grey cracking</u>
Exposed rock	type		
Sub-surface Soil	<u>clay</u>	depth to rock	Colour
Rock	type		
Drainage	well mod <u>poor</u>	depth water	cm Wet all year <u>winter/spring</u>
Litter	<u>dead herbs (cotula)</u>	% cover	30
Depth	<u>2-3</u>	cm	
Bare Ground	<u>50</u>	% 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.

TREES				MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	30/70		< 2		
DOMINANT SPECIES	<i>Casuarina obesa</i>		<i>McL. raphiophylla</i> (dead)		
SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					30/50
DOMINANT SPECIES					<i>Halosarcia</i> <i>Sarcocolla</i>
GRASSES		HERBS	SEDGES	over 0.5m	
					under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	30/50			
DOMINANT SPECIES	<i>Polypogon monsp.</i>	<i>Cotula coron.</i>			

4. VEGETATION CONDITION

Comments

becoming flooded with saline water
Mel. raphiophylla dead
Lorge Casuarinas dead

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 time- TICK if species flowering

SA

Date 2-5-1999

5/10/99

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

same

SHRUBS (cont.)

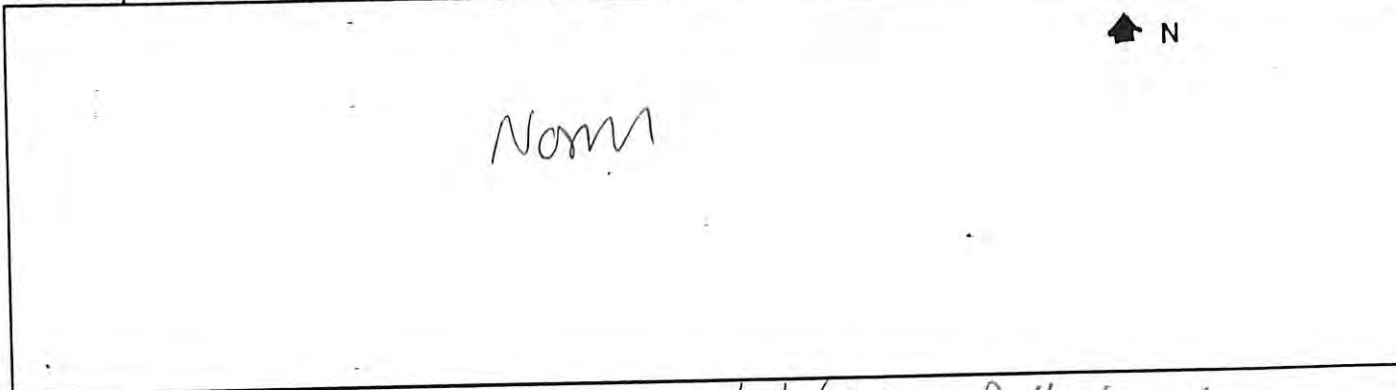
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 08
 DATE TRIP 1-5-1999 RECORDERS AW/NG/BK
 DATE TRIP 5-10-99 RECORDERS AW/GK/NG/AM/KD
 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

Norm / UCL - Ballock rd.

Geographic Location Latitude

Norm

S Longitude

E Altitude

Reference Map

Photograph

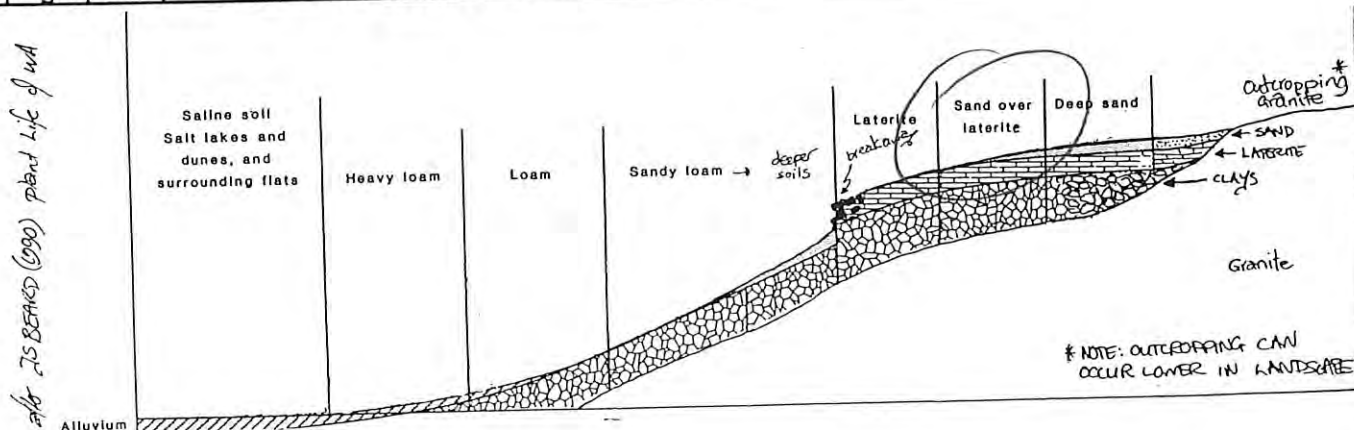
Photographer's Name

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 sand/ laterite pebbles colour white
 Exposed rock type _____ % surface _____

Sub-surface Soil sand colour grey
 Rock type laterite depth to rock > 2m

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

Litter (vs) twigs % cover 80/80 Bare Ground % cover 10/20
 Depth 2-5 cm

very good
- podnets dieback nearby

5/10/1999

Diuris *hypocnemis* *uncinata* *Gompholobium* *linearis* *Vulpia myuros*
Drosera *metallica* *Hyperanthus serratus* *Dampiera* 20720
 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
 Tetratheca *stecia* (low growing)
 E. wandoo

5. SPECIES PRESCENCE

SITE No DA 08
 Date 1-5-1999
 5-10-1999

SITE No DA 08		Date 1-5-1999		5-10-1999		Column 1		Column 2		Column 3		Column 4		flowering time- TICK if species flowering		identification check		HERBS (cont.)		No		FI		ID		No		FI		ID			
TREES		No		FI		ID		SHRUBS (cont.)		No		FI		ID		No		FI		ID		No		FI		ID		No		FI		ID	
Euc marginata								Persoonia angustiflora																									
								Gompholob knightian																									
								Daviesia ? Uphysodes																									
								Hakea lissocarpa																									
								Gastrolobium spinosum																									
								Daviesia cardiophylla																									
MALLEES								GRASSES																									
								Amphipogon tubin																									
								Neurachne alopecur																									
								Stipa pycnost																									
SHRUBS								HERBS																									
Dryandra sessilis								Anigos humilis																									
Allocas humilis								Lomandra sericea																									
Leptos. erubesc								Stylidium repens																									
Bossiaea eriocarpa								Pterochaeta panic																									
Daviesia decumbens								Lomandra hermaph																									
Dryandra nivea								Schoenus curvifol																									
Calytrix angulata								Laxmannia sessiliflora																									
Verticordia glandifera								Chaemascilla corymbos																									
Hibbertia subvag								Drosera erythrorhiza																									
Acacia vestiac																																	
Xanthorrhoea preissii																																	
Melaleuca																																	
Petrophile serrulata																																	
Hibbertia enervia																																	
Bossiaea ornata																																	
Triptococcus brunon																																	
Aclacia lasiocarp																																	
Calothamn sanguin																																	
Petrophile striatula																																	
Acacia (Lindley) - pycnost																																	
Calytrix (Lindley) - pycnost																																	
Hibbertia quadrang																																	

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 09
 DATE TRIP 1-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 5-10-99 RECORDERS AW/NG/GK/AM/KD
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

Norm

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.



norm

Road Location

norm / VCL - Ballock rd.

Geographic Location Latitude

norm S Longitude

E Altitude

Reference Map

Photograph

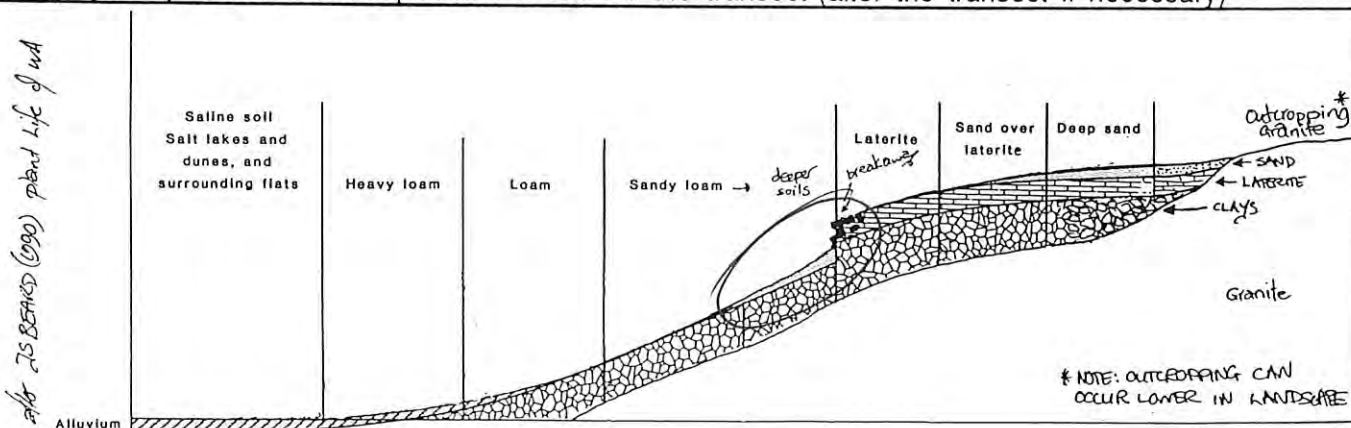
Photographer's Name

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

Surface Soil type sandy clay Colour brown
 Exposed rock type _____ % surface _____

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

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

Litter lvs, bark, twigs % cover 70/80 Bare Ground 20/30 %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 (%)	2/10				
DOMINANT SPECIES	Euc. wandoo				
SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		30/70			10/30
DOMINANT SPECIES		Gastrol. spinos			Baekea camp Hibb comutata
GRASSES		HERBS	SEDGES	SEDGES	
			over 0.5m	under 0.5m	
LIFE FORM					
COVER CLASS (%)	2/10	2-10		2-10	
DOMINANT SPECIES	Neurachne alop Danthonia Stipa	Stylid affine		Desmod asper Tetaria capill Lepid angust	

4. VEGETATION CONDITION

Comments

very good - excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20720

Euc wandoo

5. SPECIES PRESCENCE

SITE No DA 09

Date 1-5-1999

5-10-1999

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

Euc wandoo

MALLEES

SHRUBS

Baekea camphorosma

Hibbertia leuervia

Eucalyptus spinos

Hibbertia columnata

Xanthorrhoea drumm

Dryandra armata

Hakea lissocarpa

Trymalium leldifol

Daviesia

Leptospermum erabes

(usp) Chortrum laterif

SHRUBS (cont.) 5-10-1999

x Arctotheca calendula

x Phyllanthum paradox

x Wahlenbergia precessu

x Stylidium uniflorum

x Centrolepis aristata

x Sonchus oleraceus

x Coesia micrantha

x Astroloma pallidum

GRASSES

Neurachne alopec

Danthonia

HERBS

Pterochaeta pannic

Leuervia pusilla

Hyalospermum (cotula)

Stylidium affine

Chakmascilla corymb(ves)

Aschroport capillip

5/10/99

x Dampiera sacculata

x Stylidium calcareatum

x Waitzia nitida

x Trachymene pilosa

x Siloxerus humifusus

x Aina coryophyll

x Millotia tenuif

HERBS (cont.)

x Hydrocotyle culicarpa

x Drosera macrantha

x Drosera eryterorhiza

x Rhodanthe laevis

x Amphipogon

x Schoenus nanus

x Caladenia flava

x Levenhookia pusilla

x Lageniera huegelii

x Hypochaeris glabra

x Velleia trimensis

x Thysanotus paterson

x Blennospora drumm

SEDGES

Desmoclados asper

Lepidosperma angust

Harperia laterif

Tetraria capillaris

Lepidosperma tenax

Tetraria octandra

Desmoclados fascic

5/10/99

x Homandra micrantha

x Dampiera lindleyi

x Cryptandra purpurea

x Stylidium brunon mind

x Pterostylis recurva

x Eriochilus dilatatus

x Eryngium pinnatifid

x Leptoceras menziesii

x Waitzia sacculata

x Hyalostema cotula

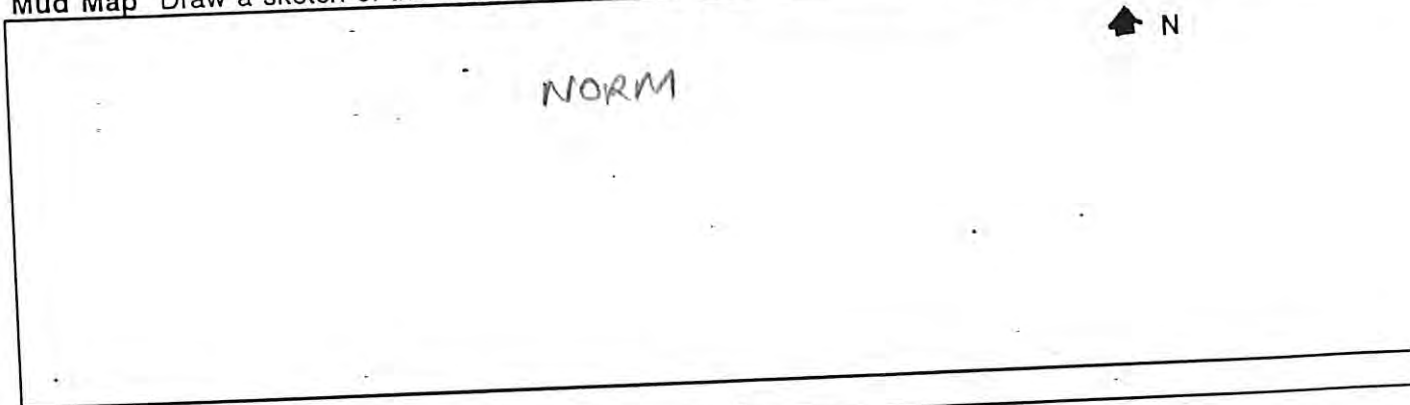
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 10
 DATE TRIP 30-4-1999 RECORDERS AW/NG/GK
 DATE TRIP 6-10-99 RECORDERS " +KD/AM
 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.

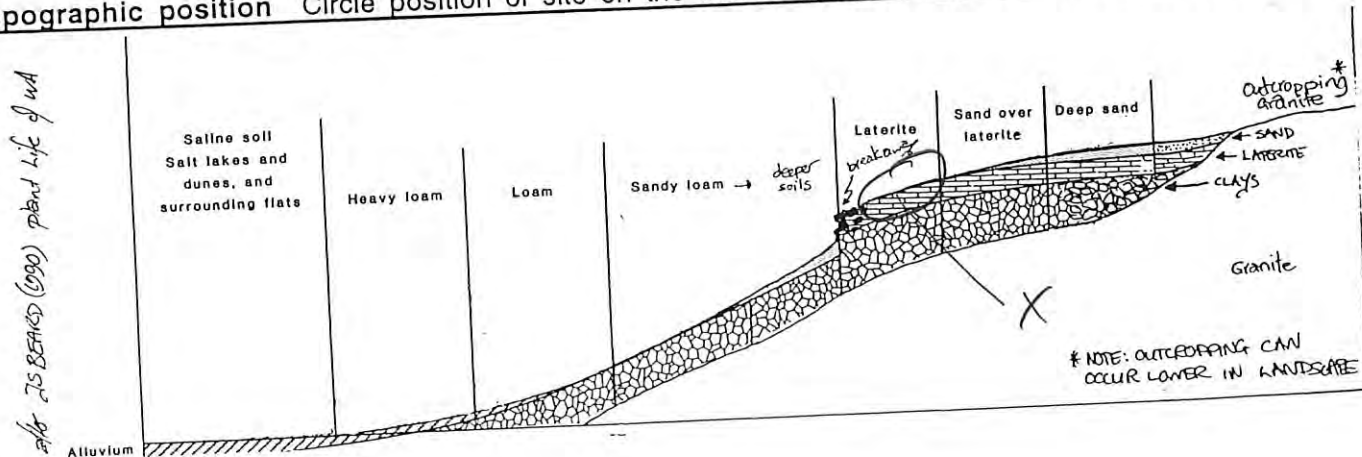


Road Location Haddleton NR
NORM

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

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	<u>gentle</u>	steep	Aspect	N	NE	E	SE	<u>S</u>	<u>SW</u>	W	NW
Surface Soil	sandy lateritic clay								Colour	brown		
Exposed rock	type lateritic pebbles								surface	50		
Sub-surface Soil	type laterite								depth to rock	Colour		
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet			all year		winter/spring	
Litter	veg, twigs		% cover	50/70		Bare Ground		10/30		%cover		
Depth	0-10		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						MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m		
LIFE FORM						30m	10m
COVER CLASS (%)	10/30		10/30				
DOMINANT SPECIES	<i>Euc. marginata</i>		<i>Banksia grand</i> <i>Peterson longif</i>				
SHRUBS				SHRUBS			
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)		2/10			20/30		
DOMINANT SPECIES		<i>Ac. celastroides</i> <i>Xanth. ? drumm</i>			<i>Bossiaea ornata</i> <i>Hibbert hyperic</i> <i>Petr. serrulatae</i>		
GRASSES		HERBS		SEDGES		over 0.5m	
LIFE FORM							1m
COVER CLASS (%)	2/10	2/10					
DOMINANT SPECIES		<i>Com. sericea</i>					<i>Tetaria capill</i>

4. VEGETATION CONDITION

Comments

burnt ca 8 yrs ago
logged in past

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20 x 20

5. SPECIES PRESCENCE

SITE No DA 10

Date 30 / 4 / 1999

6-10-99

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
Euc. marginata			Astroloma	2prostr	drummondii	X	Caladenia	glabra			
Banksia grandis			Styphelia	tenuiflora		X	Stylidium	hirsutum			
Persea longifolia						X	Drosera	scrophioides			(usp)
						X	Trachymene	pilosa			
						X	Waitzia	citrina			
						X	Aira	coryophyll			
						X	Millotia	mylosot			tenuiflora
						X	Hypochaeris	glabra			
						X	Thysanot	paterosm			
						X	Hydrocotyle	calicaria			
						X	Ursinia	lanthem			
						X	Chaenactis	corymb			
						X	Lagenicera	huegelii			
MALLEES			GRASSES			SEDGES			No	FI	ID
						X	Lepidosperma	tenuis			leptostachyum
							Desmodium	fasic			
SHRUBS			HERBS			X	Conostylis	betigera			
Hakea lissocarpa			Lomandra	sericea		X	"	vaginata			serrulata
Petrophile senecioides			Ursinia	anthem		X	Levenhook	spusilla			
Hibbertia hypericoides			Patersonia	(glaucous)		X	Scarola	phlebopet			
Acacia celsa			Lomandra	preissii		X	Tetralia	octandra			
Xanthorrhoea drummondii			Haemodorum			X	"	capillaris			
Petrophile striata						X	Opcularia	iragin			
Bosciaea ornata						X	Drosera	magrantha			
Astroloma pallidum						X	Dampiera	linearis			
Astroloma serratifolium						X	Macrobomia	fraseri			
Hibbertia huegelii						X	Pterodactylus	recurva			
Astroloma ?compalatum						X	Xanthobla	candida			
Gompholobium preissii						X	Newadme	alopec			
Utricularia ledifol						X	Lechenaultia	bulbosa			
Conospermum caeruleum						X	Eriochilus	dilat			
Leucopogon = Styph Jam											
Hibbertia commutata											
Dryandra lindleyana											
Astroloma ciliatum											
Pultenaea ericifolia											
Gompholobium knightianum											

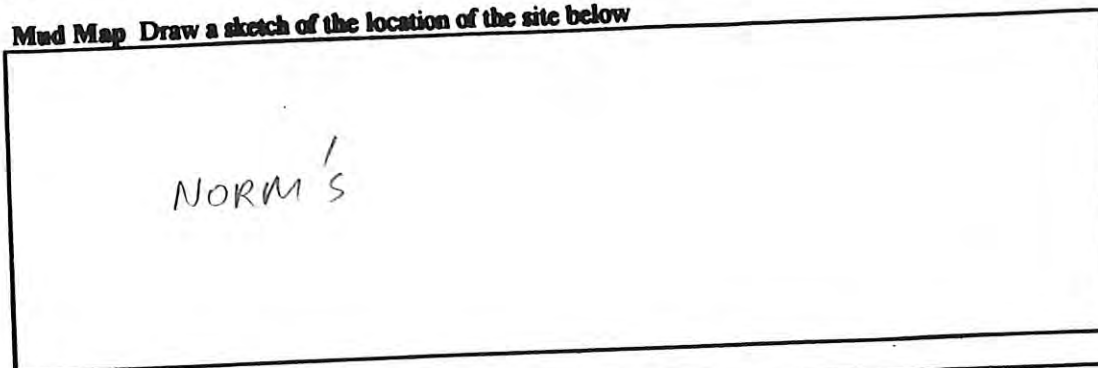
X Schismus
X Laxmann squarrosa

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA DA SITE NUMBER 11
 DATE TRIP 4/10/1999 RECORDERS NG/AW/GK/KD/AW
 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 Hillman NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude
<u>NORM</u>			

Photograph	Name	Number
	<u>NG</u>	<u>11</u>

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

2. SITE DATA Circle the correct response

Slope	flat	<u>gentle</u>	steep	Aspect	N	<u>NE</u>	E	SE	S	SW	W	NW

Surface Soil	<u>gritty sandy clay</u>	Depth to Rock	<u>> 50cm</u>	Colour	<u>brown</u>

Exposed Rock	type	<u>clay</u>	% surface cover	<u>granite</u>	size range

Litter	<u>> 90</u>	% surface cover	<u>2-10</u>	Depth (cm)

Bare Ground	☐	% surface 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 (%)		>70			
DOMINANT SPECIES		<i>Allocas. hurg</i> <i>Euc. wandoo</i>			
SHRUBS					SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	<2				<2
DOMINANT SPECIES	<i>Leptos. sub</i>				<i>Hibb comm</i>
GRASSES		HERBS	SEDGES	SEDGES	
			over 0.5m	under 0.5m	
LIFE FORM					
COVER CLASS (%)	70-30	10-30		2-10	
DOMINANT SPECIES	<i>Briza max</i>	<i>Ursinia</i> <i>Anagallis</i> <i>Sowbea laxif</i>		<i>Lepidosp. visc</i> <i>Desmod. asp</i>	

4. VEGETATION CONDITION

Comments

very good
patchy grassy weed invasion

dense weed invasion on lower slopes

collections of DAII of 30/4/99 refer to DA25

DAII

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No 4/10/1999

Date DAII

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

				HERBS (cont.)				No	FI	ID
TREES				SHRUBS (cont.)				No	FI	ID
Euc. wandoo										
Allocas huegeliana										
MALLEES				GRASSES				No	FI	ID
				Briza max						
				Austrostipa elegantiss						
				Newmachne alopecur						
SHRUBS				SEDGES				No	FI	ID
Hibbertia commutata				Lepidosperma stricta						
Phyllanthus calycin				" " "Versicolor"						
Xanthorrhoea preissii				Desmodium asper						
HERBS				SEDGES				No	FI	ID
Sowerbaea laxiflora				Arteropodium capillipes						
Trachymene pilosa				Cheranthus austrofflu						
Hypochaeris				Trifolium dubium						
Lagenaria hueg				Rhodanthe manglesii						
Orobancha rosea				Lomandra caespitosa						
Ursinia anth				Centrolepis drum						
Borja spharocceph				Pterocarpus drum						
Daucus alochidiat										
Drakonorchis barbaros										
Milotia lamiflora										
Caladema flava										
Caesia uticantna affordii										
Dressa glandulig										

// ADJ Geranium comatum (USP)

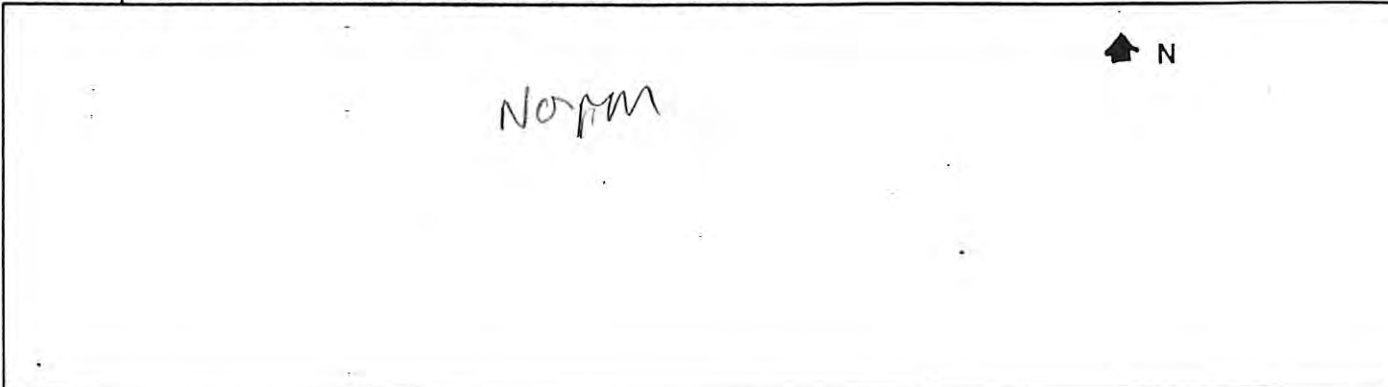
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 12
 DATE TRIP 30/4/1999 RECORDERS AW/NG/GK
 DATE TRIP 6/10/1999 RECORDERS AW/NG/GK/AM/KO
 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.

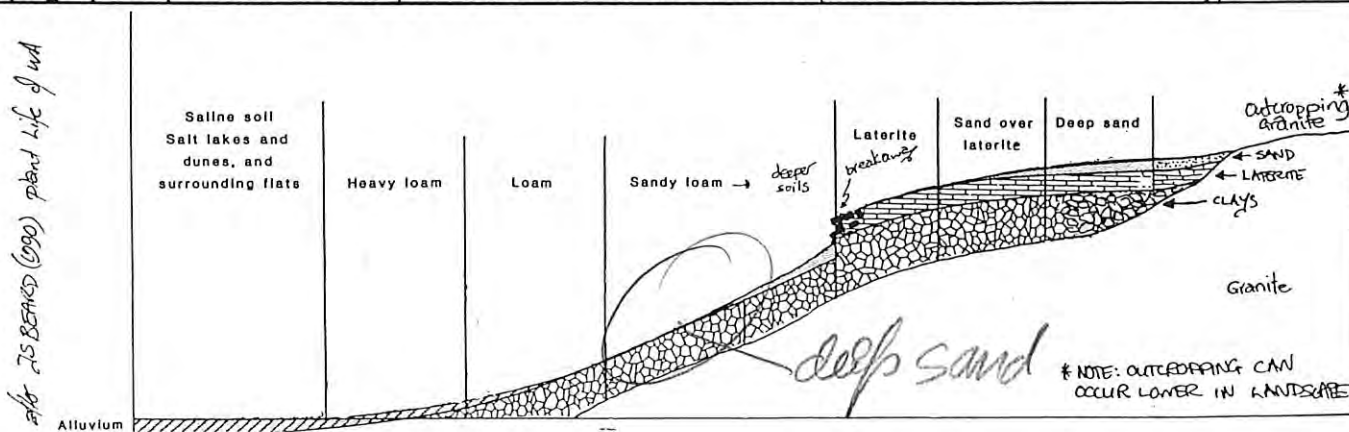


Road Location Haddleton Springs NR

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 sandy Colour grey
 Exposed rock type _____ % surface _____

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

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

Litter VS, twigs % cover 70/90 Bare Ground 10 %cover
 Depth 2-10 cm

very good - excellent
sheback near

70×20

use pencil only
plant's name or working name if required

same

Label each plant with plants
Record on Sheet

S. SPECIES

SITE No DA 12

Date 30-4-1999

6-10-1999

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

SITE No. **DA 12**

Date **30-4-1999**

6-10-1999

Column 1 **flourishing time- TICK if species flowering**

Column 3 **identification check**

Column 4 **identification check**

HERBS (cont.)

6-10-1999

Xanthosia huegelii ✓ **(USP)**

Lysianthus serratus ✓

Diosera ✓

Hypochaeris glabra ✓

Diosera erythrorhiza ✓

Trachymene pilosa ✓

Hibbertia sp. ridge bracts **(USP)**

Petrophile media ✓

Pyrorchis nigricans ✓

Stylidium Ucarnosum ✓

Thelymitra arnita ✓

TREES				SHRUBS (cont.)				HERBS			
No	FI	ID		No	FI	ID		No	FI	ID	
			<i>Euc. marginata</i> ✓								
			<i>Banksia attenuata</i> ✓								
			<i>Persea longifolia</i> ✓								
			<i>Nuytsia floribunda</i> ✓								
MALLEES				GRASSES				SEDGES			
				<i>Amphipogon turbinatus</i> ✓				<i>Hypolaena exsulca</i> ✓			
SHRUBS				HERBS				<i>Hyginia barbata</i> ✓			
			<i>Kunzea recurva</i> ✓				<i>Lomandra hermaph</i> ✓ (USP)	<i>Lepidosperma (terete)</i> ✓			
			<i>Stirlingia latifolia</i> ✓				<i>Phlebocarya ciliata</i> ✓	<i>Mesomer tetragona</i> ✓			
			<i>Adenanthos obor</i> ✓				<i>Lomandra sericea</i> ✓				
			<i>Calothamnus Lehmannii</i> ✓								
			<i>Calytrix angulata</i> ✓								
			<i>Adenanthos Omeisneri</i> ✓								
			<i>Xanthosia preissii</i> ✓								
			<i>Acacia pulchella</i> ✓								
			<i>Bossiaea eriocarpa</i> ✓								
			<i>Conospermum capitatum</i> ✓								
			<i>Macrohymma fraseri</i> ✓								
			<i>Myr.</i> ✓								
			<i>Kunzea ? hybrid</i> ✓								
			<i>Howea trispinosa</i> ✓								
			<i>Hibbertia hypericoid</i> ✓								
			<i>Pericalymma ellipticum</i> ✓								

6/10/1999

Lomandra caespitosa ✓

Lagenifera huegelii ✓

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 13
 DATE TRIP 30-4-99 RECORDERS AW/NG/GK
 DATE TRIP 5-10-1999 RECORDERS GK/NG/AW/AM/KD
 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.



NORM

Road Location

NORM
Bayup Brook - Kojonup Road.

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

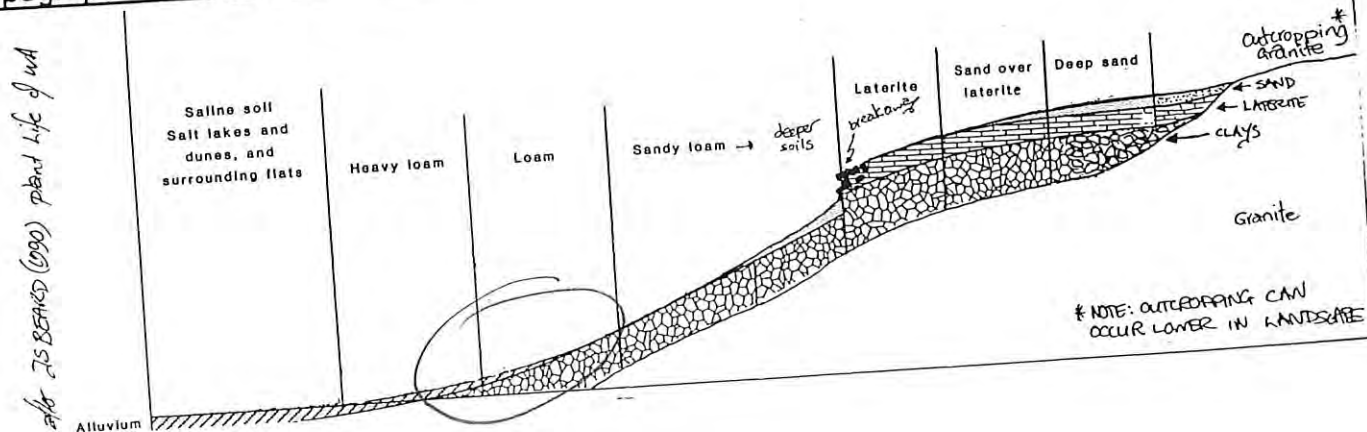
Photo No I

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	<u>gentle</u>	steep	Aspect	N	NE	E	SE	S	<u>SW</u>	W	NW
Surface Soil	type <u>loam</u>			% surface	Colour <u>red</u>							
Exposed rock	type <u>clay</u>			depth to rock	Colour <u>red</u>							
Sub-surface Soil	type <u>clay</u>			depth to rock	Colour <u>red</u>							
Drainage	well	<u>mod</u>	poor	depth water	cm	Wet all year			winter/spring			
Litter	<u>straw, lvs</u>			% cover	100			Bare Ground			%cover	
Depth	<u>2-4</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 - 15 m	under 5 m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		30/70			
DOMINANT SPECIES		Ac. acum Alloc. hurg			

SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	50/70	10/30			
DOMINANT SPECIES	Stipa Avena b. Ehrharta angif	Rom. repa			

4. VEGETATION CONDITION

Comments

pen

20×20

plant's name or working name if required

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

Record on Sheet

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

5-10-1999

me if required
~~Euc. radiis~~
Euc wandoo

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
			Allocasuarina hooopleii ✓								X Briza minor
			Acacia acumin ✓								X Arctostaphylos anthem
											X Leonocarpus nodulos
											X Geranium splend
											X Trifolium dubium
											X Cassia? micrantha
			MALLEES								X Chaenactis versicolor
											X Oxalis psammis
							GRASSES				X Poranthera microphylla
							Austrostipa elegant ✓				X Artropodium capillipes
							Briza max				X
							Ehrharta longicloro ✓				X
			SHRUBS				Stipa pycnostachya ✓				SEDGES
			Cornespermum integrum ✓				Neurachne alopec ✓				Lepidosperma tenue ✓
			Hibbertia commutata ✓								sp. D2 ✓
							HERBS				
							Asparagus asparagoides ✓				
							Rohmulea rosea ✓				
							Centaurium erythraea ✓				

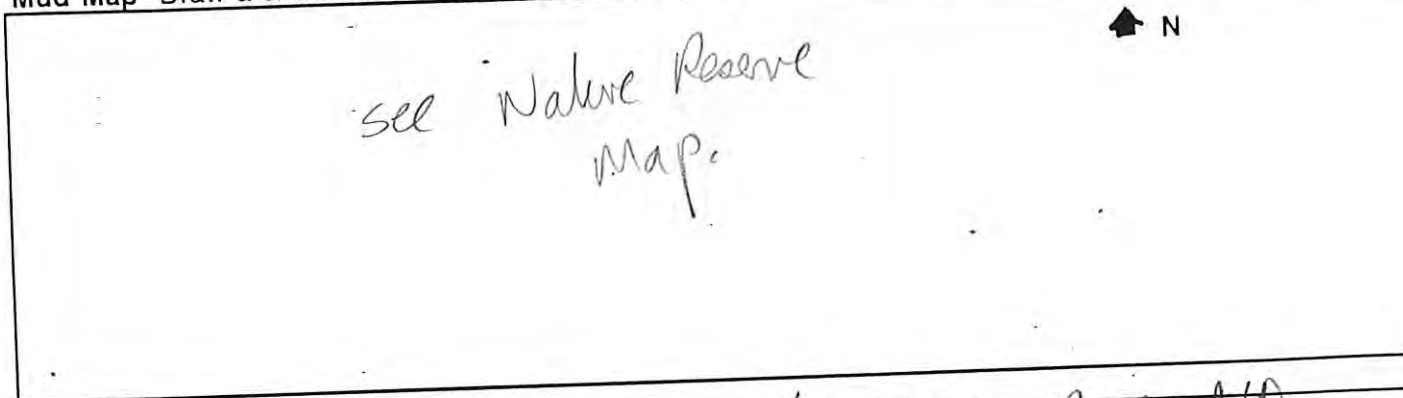
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 14
 DATE TRIP 29/4/1999 RECORDERS NG/AW/GK
 DATE TRIP 4-10-1999 RECORDERS NG/AW/GK/AM/KD
 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

MT Harris NR / Hillman Rock NR.

Geographic Location Latitude 33 17 46.0 S Longitude 116 48 18.1 E Altitude

Reference Map

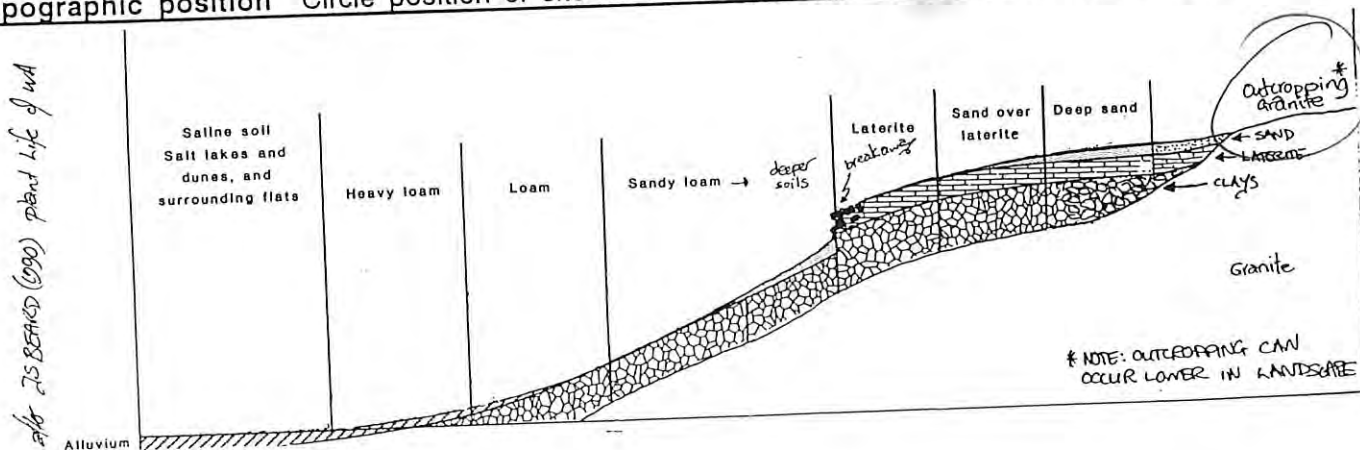
Photograph

Photographer's Name

NG

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	<u>gentle</u>	steep	Aspect	N	NE	E	<u>SE</u>	S	SW	W	NW
Surface Soil	sandy clay (mossy)							Colour	brown			
Exposed rock	type granite							% surface	10/20			
Sub-surface Soil	type granite							Colour				
Rock	type granite							depth to rock	10-0 cm			
Drainage	well	mod	<u>poor</u>	depth water	cm	Wet	all year	winter/spring				
Litter	twigs, lvs			% cover	70/10	Bare Ground	(moss)			20	% cover	
Depth	2-5			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			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM			 		
COVER CLASS (%)			10/30		
DOMINANT SPECIES			<i>Allocas. huegel</i>		

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 				
COVER CLASS (%)					
DOMINANT SPECIES					

GRASSES		HERBS		SEDGES		
	over 0.5m	under 0.5m		over 0.5m	under 0.5m	
LIFE FORM	 	  	  	  		
COVER CLASS (%)	10/20/30	10/30				
DOMINANT SPECIES	<i>Briza max</i> <i>Au. ellina michellii</i>	<i>Styp. imbricata</i> <i>Briza ?nitida</i> <i>Chvil. austro-t</i>				

4. VEGETATION CONDITION

Comments

Comments

very good
some weed invasion
rabbit grazing

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 DA 14

Date 29-4-1999

4-10-1999

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

SITE No DA 14				flourishing time- TICK if species flowering				No	FI	ID
Date 29-4-1999				Column 2				No	FI	ID
4-10-1999				Column 3				No	FI	ID
				Column 4				No	FI	ID
				identification check				No	FI	ID
				HERBS (cont.)				No	FI	ID
				4/10/99				No	FI	ID
				Bombya spharo				No	FI	ID
				Irisia anthem				No	FI	ID
				Drosera macrantha				No	FI	ID
				Centrolepis cristatum				No	FI	ID
				Stylidium calcarat				No	FI	ID
				Hypochaeris glabra				No	FI	ID
				Cyano corpus (nodul				No	FI	ID
				Trachymene pilosa				No	FI	ID
				Millotia tenuifl				No	FI	ID
				Caladenia flava				No	FI	ID
				Quinetia urvillei				No	FI	ID
				SEDGES				No	FI	ID
				Lepidosperma tenue				No	FI	ID
				4/10/99				No	FI	ID
				Drakonorchis barb				No	FI	ID
				Levenhookia stipitat				No	FI	ID
				Hydrocotyle calcarat				No	FI	ID
				Homaloscladum homaloc				No	FI	ID
				Aphelia drumm				No	FI	ID
				Selaginella gracillim				No	FI	ID
				Aphelia nutans				No	FI	ID
				Drosera neesii neesii				No	FI	ID
				Brachycome				No	FI	ID
				Thelymitra paucifi				No	FI	ID
				Caladenia reptans strepta				No	FI	ID
				Hypoxis occident				No	FI	ID
				Aphelia cyprolois				No	FI	ID
				Chaemoscilla ricorymb				No	FI	ID
				Crossula subsectana				No	FI	ID
				Calandrinia calystrata				No	FI	ID
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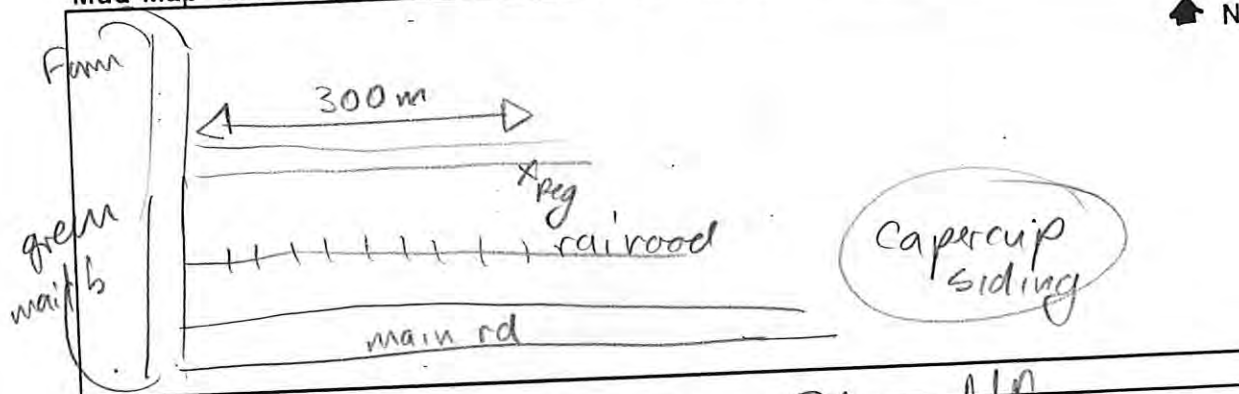
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 15
 DATE TRIP 30-4-99 RECORDERS AW/NG/GK
 DATE TRIP 5-10-1999 RECORDERS AW/NG/GK/KO/AM
 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

Capercup Siding NR

Geographic Location Latitude 33° 31' 43.5 S Longitude 116° 43' 49.8 E Altitude 202

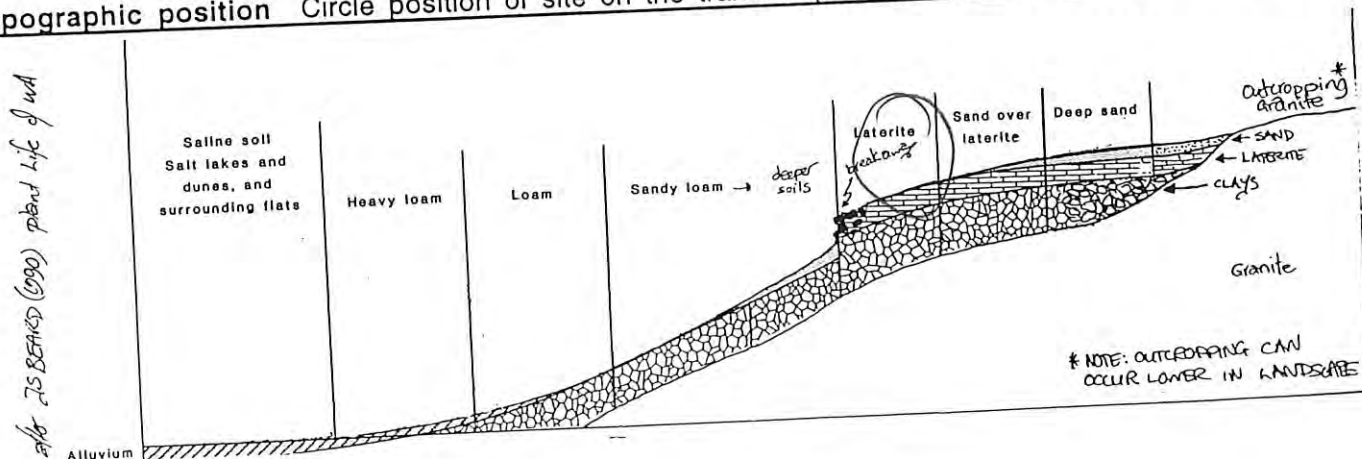
Reference Map

Photo No 31

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	<u>gentle</u>	steep	Aspect	N	NE	<u>E</u>	SE	S	SW	W	NW
Surface Soil	<u>lateritic sandy clay</u>							Colour	<u>brown</u>			
Exposed rock	type <u>laterite</u>							% surface	<u>70</u>			
Sub-surface Soil	type <u>laterite</u>							depth to rock	cm			
Rock	type							Wet	all year			
Drainage	well	<u>mod</u>	poor	depth water	cm			Wet	winter/spring			
Litter stems, lvs, twigs	% cover <u>50/70</u>							Bare Ground	<u>20</u>			
Depth	cm <u>2-25</u>							% cover				

20720

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

SITE No DA 15

Date 30-4-1999

5-10-1999

Record on Sheet

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

Euc. decipiens

TREES				SHRUBS (cont.)				HERBS (cont.)				No	FI	ID
				5/10/1999				5/10/1999						
				Vellia cynopotamica				Thyssonotus paterson						
				Gahnia				Pterostylis recurva (VSP)						
								Stylidium calcaratum						
								Levenhookia stipitata						
								Chaemascilla corymb						
								Drosera (pulchellum) (VSP)						
								Schoenus nanus						
								Patersonia juncea						
								Drosera erythrorhiza						
								Gutierrezia humilis						
								Boronilla juncea (VSP)						
								Parantura macrophylla						
								SEDGES						
								Lepidosperma brunum (VSP)						
								" sp. tenax						
								Mesomelaena stygia						
								Tetraria octandra						
								Desmodios fascic						
								Lepidobolus						
								Tetraria capillaris (VSP)						
								Schoenus nanus						
								Schoenus sylvester						
								5/10/99						
								Rinzia Dunne						
								Thyssonotus = Sanderbon						
								Leptospermum erubesc						
								Baeckea camphorosmae						
								Milloitia tenuif						
								Blennospora drummond						
								Wahlenbergia preissii						
								Caladenia flava						
								Hypochaeris glabra						
								Hydrocotyle pilifera						

andros
-acea(sm
variant)B
nays

ptarmica

-not
plumbe-3mm
cells.

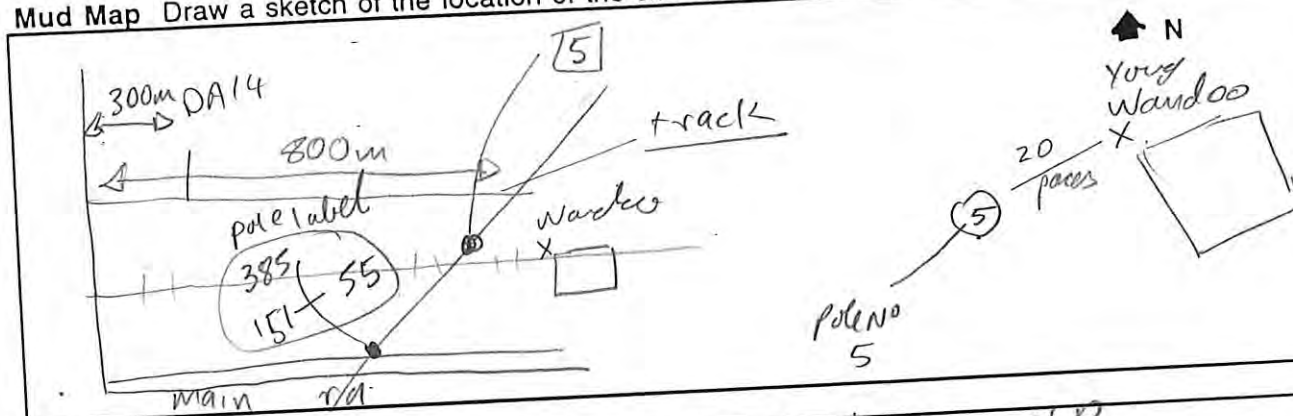
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 16
 DATE TRIP 30/4/1999 RECORDERS AW/NG/GK
 DATE TRIP 5-10-1999 RECORDERS AW/NG/GK/AM/KD
 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

Caperang Siding NR

Geographic Location Latitude 33 31 29.5 S Longitude 116 44 02.6 E Altitude 108

Reference Map

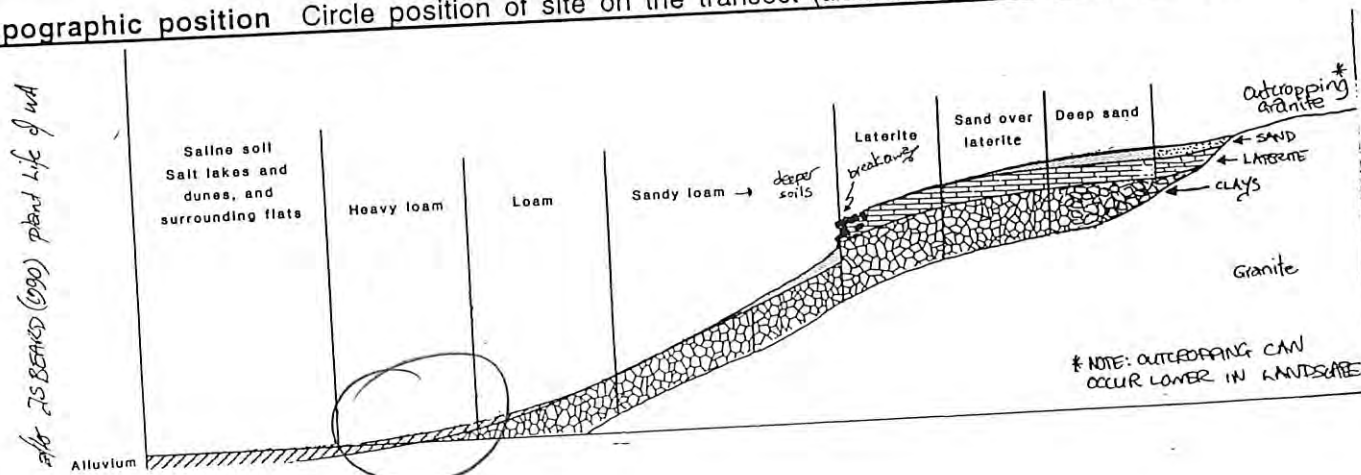
Photo No

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	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW
Surface Soil	<u>clay-loam</u>			Colour	<u>brown</u>							
Exposed rock	type			% surface								
Sub-surface Soil	<u>clay</u>			Colour								
Rock	type			depth to rock								
Drainage	well	mod	<u>poor</u>	depth water	cm	Wet	all year	<u>winter/spring</u>				
Litter	<u>vs, dead anns, twigs</u>			% cover	<u>70/90</u>			Bare Ground	<u><10</u>			
Depth	<u>2-20</u>			cm								
								% 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	/	/	/	/
DOMINANT SPECIES	Euc. wandoo	/	/	/	/

	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2/10	/	/	2/2	30/50
DOMINANT SPECIES	Viminoria jun. Hakea varra	/	/	Hakea sulc.	Petr. squam. Isopogon buxif. Verticordia drus

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				
COVER CLASS (%)	20/30/50	750	/	20/30
DOMINANT SPECIES	Amphipogon Nebrachnalopec	Sprig. Conosty lax	/	Lepidosperma Horneria latrif. Desmodium asper

4. VEGETATION CONDITION

Comments

Wandoo felled for power lines
timber

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

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

5 - 10 - 99

left-
skewed
(vsm)

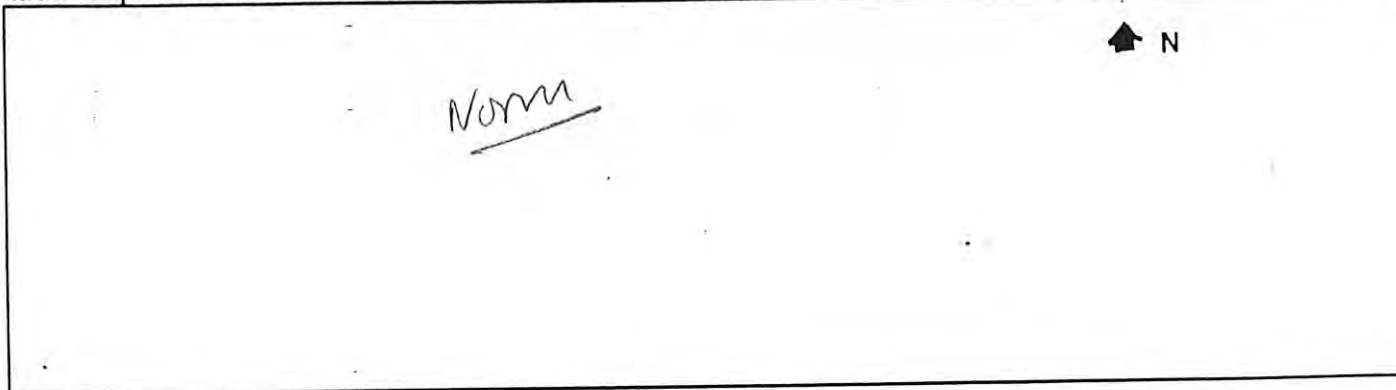
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 17
 DATE TRIP 30-4-1999 RECORDERS AW/NG/GK
 DATE TRIP 6-10-99 RECORDERS AM/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

Haddleton NR

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

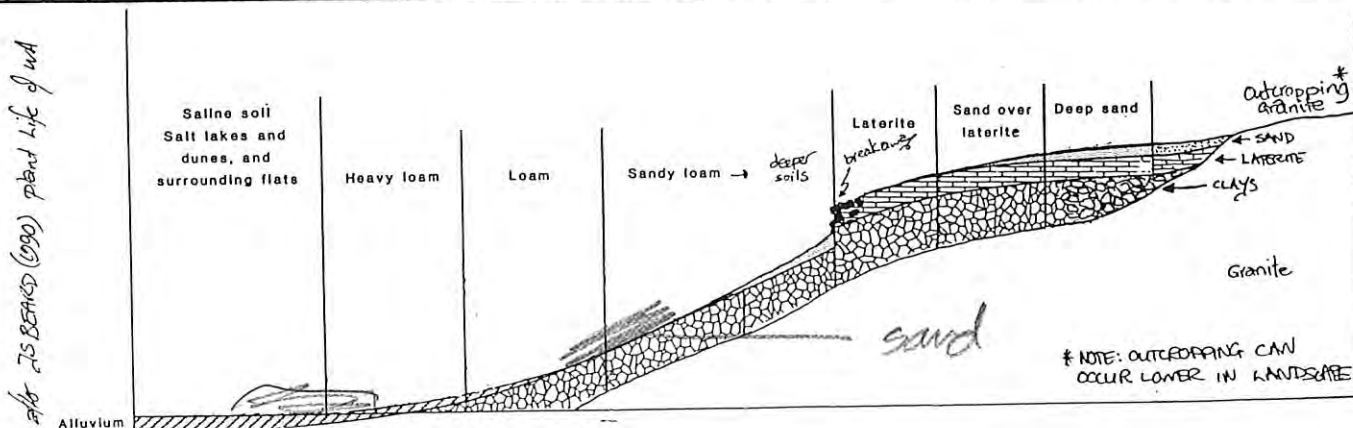
Photograph

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	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW
Surface Soil	<u>grey sand</u>							Colour				
Exposed rock	type <u> </u>							% surface	<u> </u>			
Sub-surface Soil	<u>sandy clay</u>							Colour	<u>grey</u>			
Rock	type <u> </u>							depth to rock	<u>damp</u>			
Drainage	well	<u>mod</u>	poor	depth water	cm	<u>damp</u>			Wet	all year	<u>winter/spring</u>	
Litter	<u>15, twigs, logs</u>			% cover	<u>70/90</u>			Bare Ground	<u>10/20</u>			%cover
	Depth <u>2-50</u>			cm								

Comments

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20 x 20

5. SPECIES PRESCENCE

SITE No DA 17

Date 30-4-1999

6/10/99

BUSHLAND PLANT SURVEY RECORDING

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

Date	30-4-1999
6/10/99	
TREES	No FI ID
Euc. marginata ✓	
Banksia attenuata ✓	
Euc. calophylla - seedling ✓	
MALLEES	
SHRUBS	No FI ID
Jacksonia furcellata ✓	
Macrozamia riedlei ✓	(usp)
Kunzea recurva ✓	
Retrophile media ✓	
Bossiaea ericarpa ✓	
Stirlingia latifolia ✓	
Hibbertia vaginata ✓	
Calyx angulata ✓	
Astroloma macrocalyx -?? ✓	
Leucopogon oxycedrus ✓	
Acacia extensa ✓	
Melaleuca acrota ✓	
Xanthorrhoea preissii ✓	
Hibbertia coccinea ✓	
Gompholobos crist./tomentosa ✓	
6/10/99	
Leucopogon glabellus (usp) ✓	
Leucopogon glabellus - phlebotomy ✓	
Habenaria trisperma ✓	
SHRUBS (cont.)	No FI ID
Adenanthos cuneatus ✓	
Canthium aristatum ✓	
Isotria medeolae var. ✓	
GRASSES	No FI ID
Amphipogon turbinat ✓	
6/10/99	
Aira caryophylla ✓	
Vulpia myuros (long grass) ✓	
Danthonia sp. ✓	
Lomandra caespitosa ✓	
HERBS	No FI ID
Phlebocarya ciliata ✓	
Xanthostema huegelii ✓	
Hypochaeris glabra ✓	
6/10/99	
Drosera erythrorhiza ✓	(usp)
Stylidium piliferum ✓	
Pyrochloa nigricans ✓	
Trachymene pilosa ✓	
Millotia tenuifolia ✓	
Caladenia carniflora ✓	
Caladenia marginata ✓	
HERBS (cont.)	No FI ID
Arctotheca colindula ✓	
Lagotis huqgelii ✓	
Thelypodium crinitum ✓	
Hyalosperma rotunda ✓	
Philodendron spatulifolium ✓	
Dioscorea metallica - climbing - microphylla ✓	
Quercus urvilleana ✓	
Stylidium calcaratum - annual ✓	
Wahlenbergia gracilis (miss) ✓	
Hydrocotyle uellicampae ✓	
Potentilla leventhorckia? peruviana ✓	
SEDGES	No FI ID
Lyginia barbata ✓	
Hypolaena exsulca ✓	
Lepidosperma angustatum ✓	
6/10/99	
Caladenia flava - 2nd highest ✓	
Eriochilus dilatatus ✓	
Antisthenia canaliculata ✓	
Drosera many many 6/10 ✓	

Herbertia of glowers
(1155 bridge way) 6/10.

Caladenia discolor 6/10/99

✓ Drive way many 6/10.

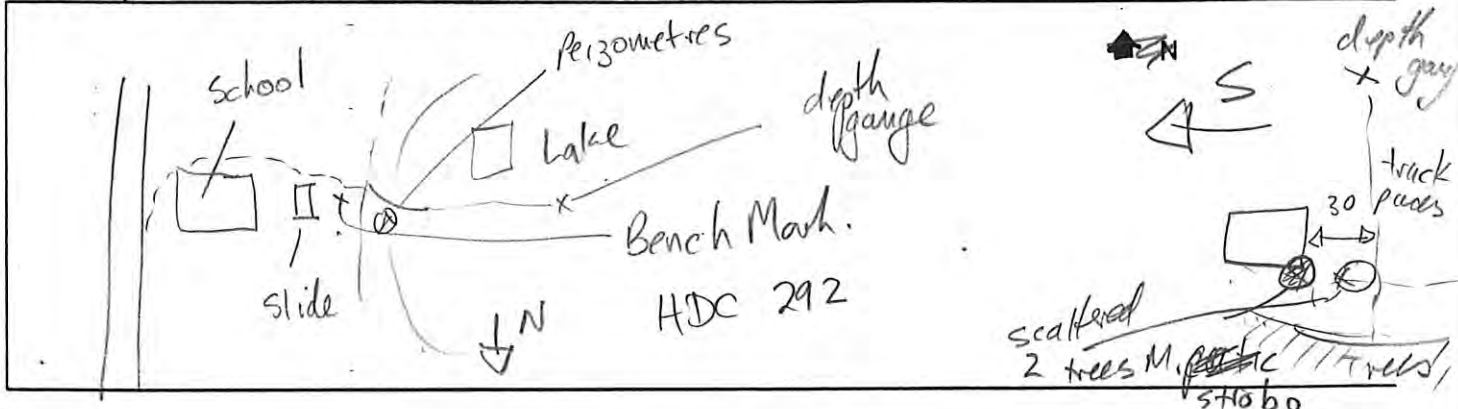
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 18
 DATE TRIP 30-4-1999 RECORDERS AW/NG/GK
 DATE TRIP 5-10-99 RECORDERS AW/NG/GK/AM/KD
 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.



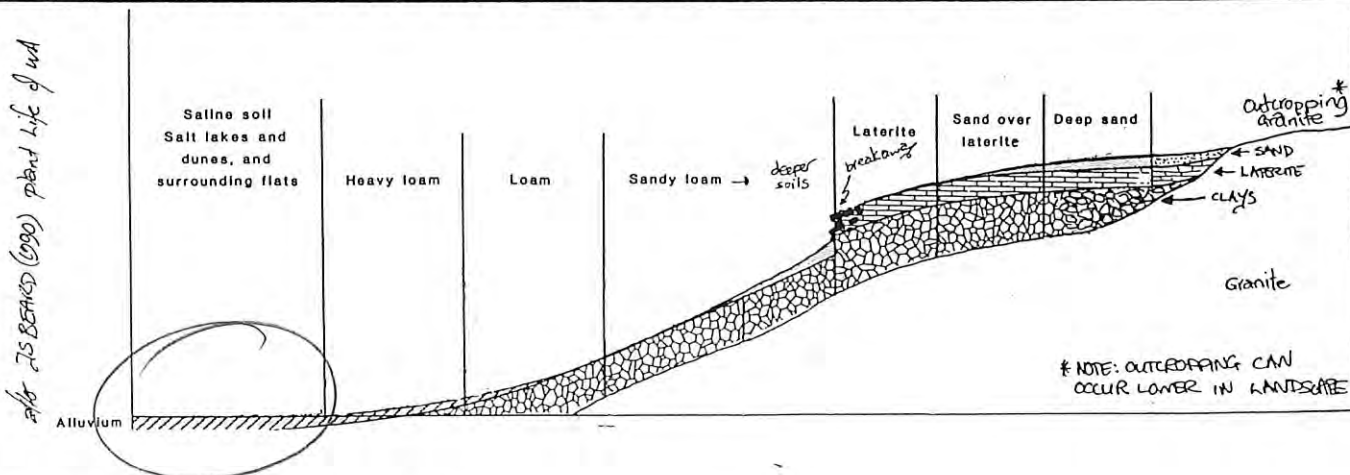
Road Location Kulukinup - NR

Geographic Location Latitude 33 49 34.9 S Longitude 116 40 17.1 E Altitude 3.0

Reference Map

Photograph Photographer's Name AWG 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 clay Colour grey
 Exposed rock type _____ % surface _____

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

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

Litter stems _____ % cover 90/100 Bare Ground 0 % cover _____
 Depth 5-10 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			MALLEES		
	over 15m	5 - 15 m	under 5 m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)			< 2		
DOMINANT SPECIES			Mel. strobophylla		

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			70/90		
DOMINANT SPECIES			Banweia articul		

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

5. SPECIES PRESCENCE

SITE No DA 18
Date 30-4-1999
5-10-99

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

TREES

Melaleuca strobophylla

MALLEES

SHRUBS

SHRUBS (cont.)

GRASSES

HERBS

HERBS (cont.)

SEDGES

Baumea articulata

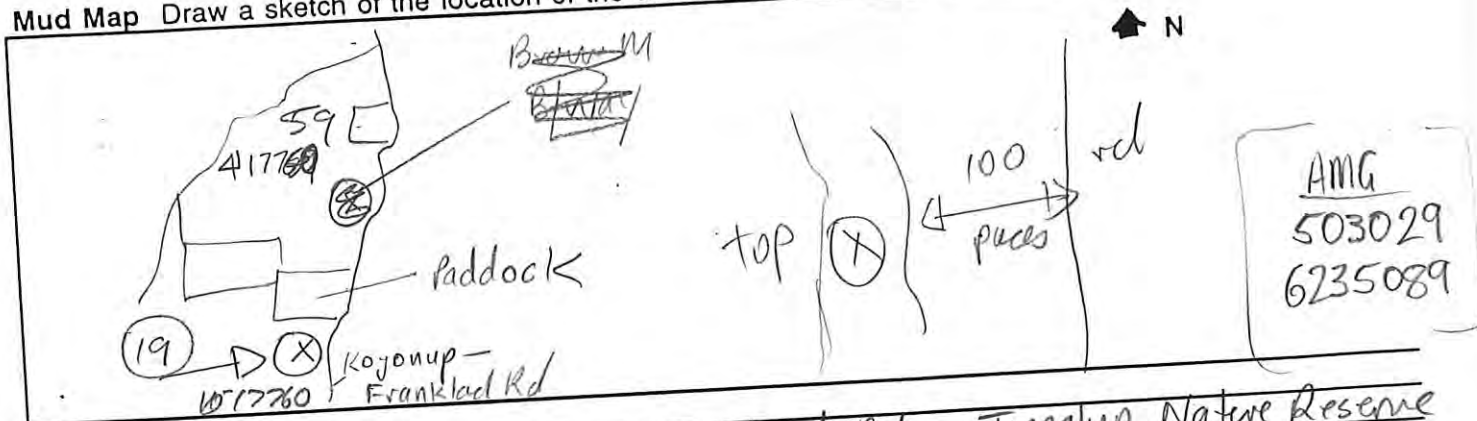
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 19
 DATE TRIP 1-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 20-10-99 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.



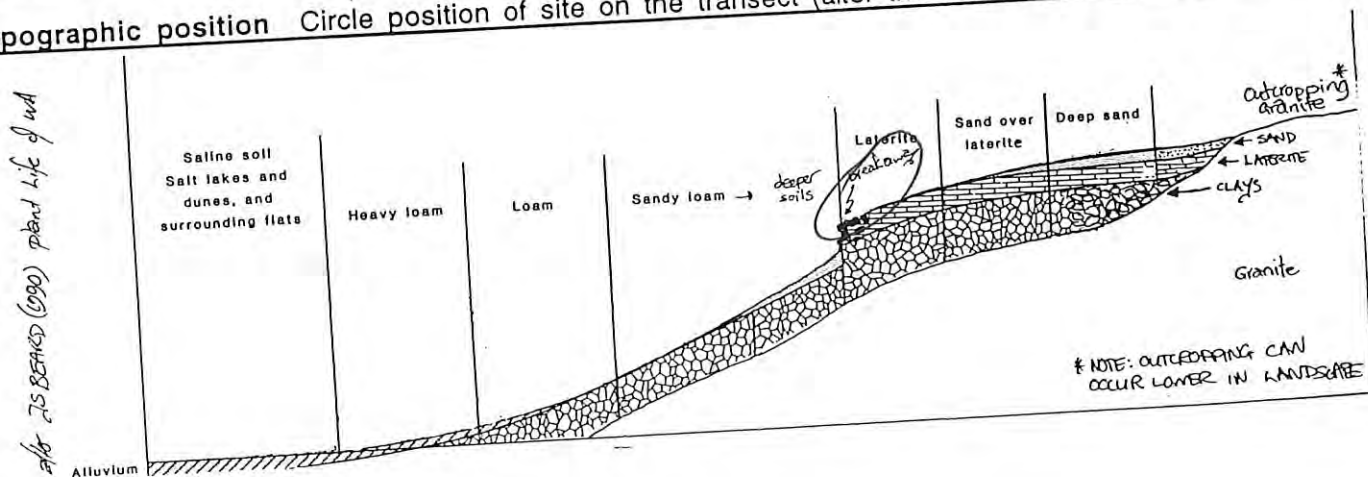
Road Location Kojonup-Frankland Rd, Jingalup Nature Reserve
29.0

Geographic Location Latitude 34 01 28 S Longitude 117 01 58.2 E Altitude 1.5
 Reference Map

Photo No 2

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 steep Aspect N NE E SE S SW W NW
 Surface Soil sandy clay Colour brown
 Exposed rock type clay % surface
 Sub-surface Soil clay Colour grey
 Rock type granite laterite depth to rock 20-50cm
 Drainage well mod poor depth water cm Wet all year winter/spring
 Litter lvs, bark, logs % cover 70/90 Bare Ground 10 %cover
 Depth 2-5-20 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.

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 (%)	30/70				
DOMINANT SPECIES	<i>Euc. astringers</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>Bossiaea stricta</i>

GRASSES		HERBS		SEDGES	
	over 0.5m		under 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	< 2	< 2		< 2	
DOMINANT SPECIES	<i>Stipa pycnostachya</i>	<i>Dianella brevifolia</i>		<i>Lepidosperma tenuis</i>	

4. VEGETATION CONDITION

Comments

excellent

20x20

use pencil only	plant's name or working name if required
-----------------	--

BUSHLAND PLANT SURVEY RECORD

Label each plant with plants number, site code, date and	Column 1	Column 2
Record on Sheet	plant name	plant number

Record on Sheet

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

20-10-1999

Euc. wandoo

[illegible]

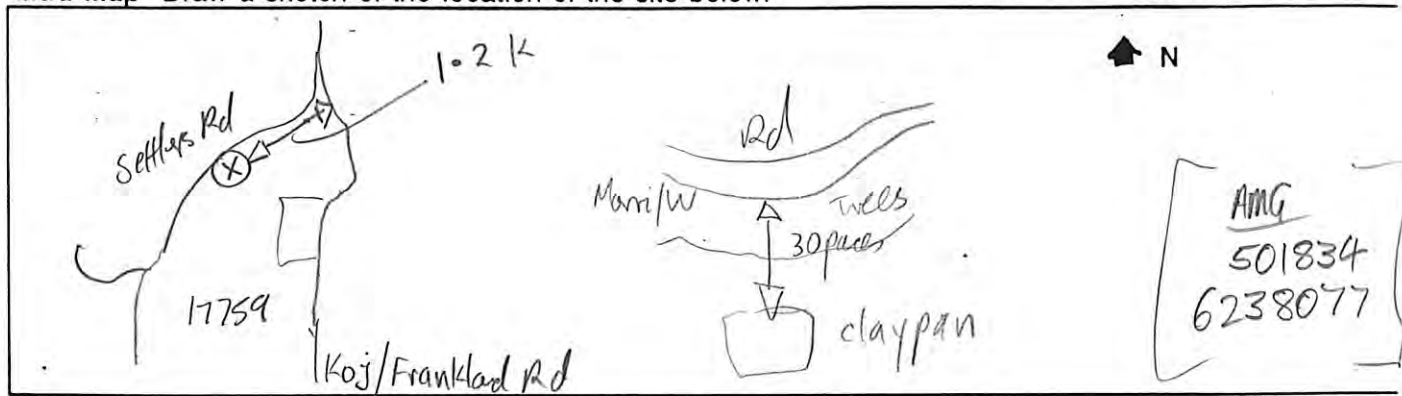
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 20
 DATE TRIP 1-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 20-10-1999 RECORDERS AW/GK/NG
 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.

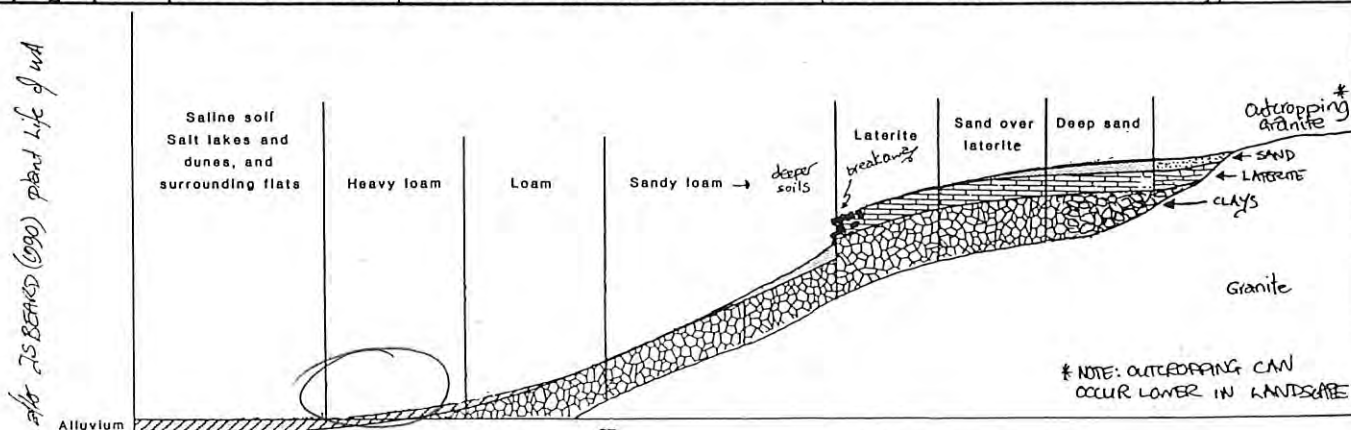


Road Location Settlers R; Tingalup Nature Reserve

Geographic Location Latitude 33° 59' 52.0S Longitude 117° 01' 11.5 E Altitude 4.0
 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 type clay Colour brown
Exposed rock type _____ % surface _____

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

Drainage well mod poor depth water 10 cm Wet all year winter/spring

Litter lg, dead annuals % cover 70/90 **Bare Ground** 10 % 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.

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 (%)	2					
DOMINANT SPECIES	<i>Hakea prostrata</i>					
GRASSES		HERBS		SEDGES		
				over 0.5m	under 0.5m	
LIFE FORM						1m
COVER CLASS (%)	10/30	70			30/50	
DOMINANT SPECIES	<i>Amphibromus</i> <i>Agrostis avenae</i>	dead.			<i>Meibomia</i>	

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20720

5. SPECIES PRESCENCE

SITE No DA 20

Date 1-5-1999

20-10-99

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 wandoo

TREES				SHRUBS (cont.)				HERBS (cont.) 20/10/99			
No	FI	ID		No	FI	ID		No	FI	ID	
								X			<i>Thelym antennifera</i>
								X			<i>— " — pauciflora</i>
								X			<i>Cicendia filiformis</i>
								X			<i>Excoecaria (blue swp)</i>
								X			<i>Freycinetia dioica</i> (JSP)
								X			<i>Centropetris aristata</i>
								X			<i>Myriophthalus isotalis</i>
								X			<i>Myriophyllum integrifolium</i>
								X			<i>Podolepis gracilis</i>
								X			<i>Komulkea (roses)</i>
								X			<i>Soella drummondii</i>
								X			<i>Triglochin minutiss</i>
								X			<i>Schoenus</i>
											SEDGES
								X			<i>Mecholdingia coarctata</i> (JSP)
								X			<i>Harperia latriflora</i> (JSP)
											20/10/99
								X			<i>Crassula nutans</i> common
								X			<i>Cyperus tenuellus</i>
								X			<i>Briza max</i> (JSP)
								X			<i>Pogonolepis</i>
								X			<i>Alysicarpus</i>
											<i>Centropetris aleopectoides</i>
											<i>Juncus capitatus</i>
											<i>Crassula nutans</i> common

MALLEES

SHRUBS

Hakea prostrata

GRASSES

Amphibromus
Agrostis

Neurachne alopecur

HERBS

Tribonanthes violacea
Drosera gigantea
Philydrella pygmaea

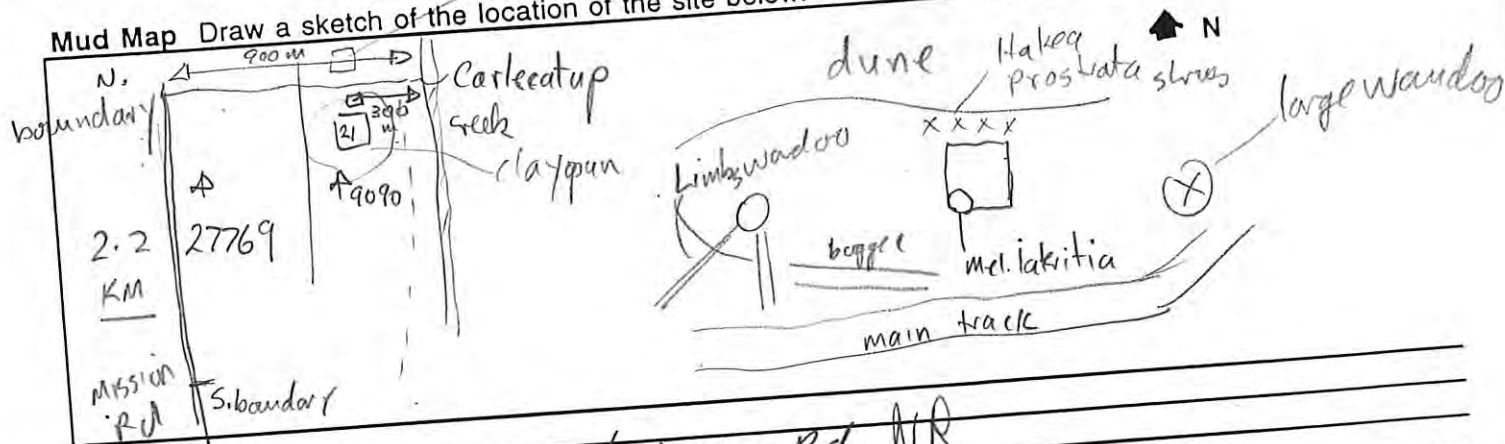
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 21
 DATE TRIP 1-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 5-10-99 RECORDERS AW/NG/GK/AM/RD
 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.



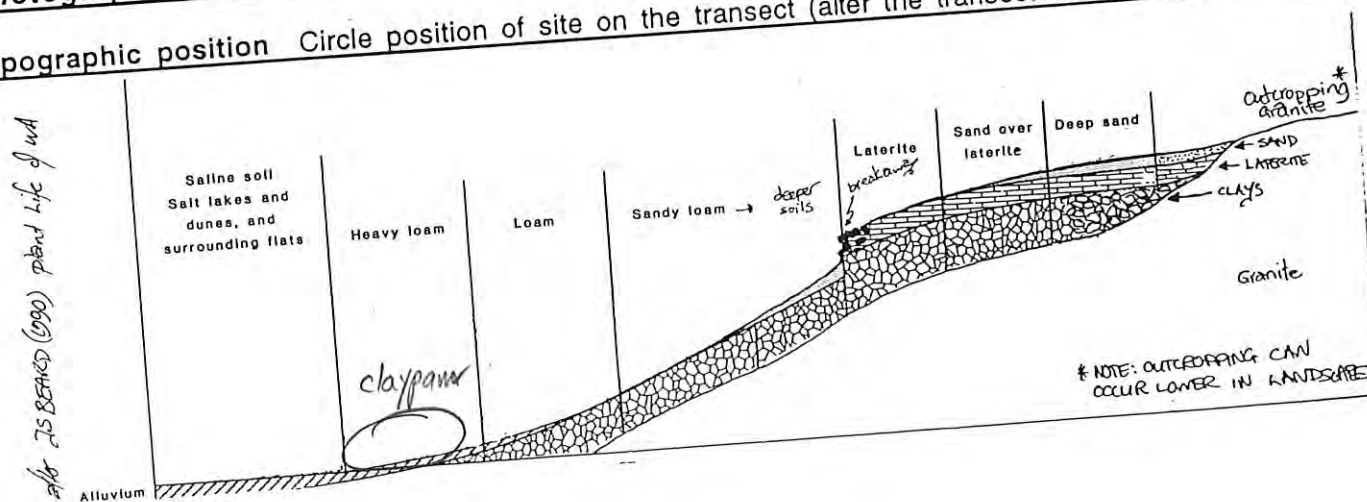
Road Location 27769 / Mission Rd NR

Geographic Location Latitude 33 41 28.0S Longitude 117 14 56.1E Altitude 4.0

Reference Map _____ Photo No 4

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.

		Aspect N NE E SE S SW W NW							
Slope	<u>flat</u> gentle steep								
Surface Soil	<u>clay</u>	% surface		Colour <u>grey</u>					
Exposed rock	type			Colour _____					
Sub-surface Soil	<u>clay</u>	depth to rock		Colour _____					
Rock	type								
Drainage	well mod <u>poor</u> depth water <u>10</u> cm	Wet all year		<u>winter/spring</u>					
Litter decay	herbs	% cover <u>70/90</u>		Bare Ground		<u>20%</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.

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 (%)				<2			
DOMINANT SPECIES				Mel. lakitia			

GRASSES		HERBS		SEDGES		under 0.5m	
				over 0.5m			
LIFE FORM							1m
COVER CLASS (%)	30/70	70/90					
DOMINANT SPECIES	Agrostis aven Aulphibromus	in season				30/70 chorizandra-enodis	

4. VEGETATION CONDITION

Comments

Excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20x20

5. SPECIES PRESCENCE

SITE No DA 21

Date 1-5-1999

5-10-1999

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

Euc. wandoo

TREES

MALLEES

SHRUBS

Melaleuca lateritia
Allocas huegeliana

GRASSES

Danthonia
Agrostis avenacea
Amphibromus novus (usa)
Briza maxima

HERBS

Tribonanthes viol.

SHRUBS (cont.) 5/10/1999

X Sonchus oleraceus
X Chelymitra pauciflora

HERBS (cont.) 5-10-1999

No	FI	ID
X		Stylidium unum
X		Prasophyll macrostachya
X		Polytomophyx multiflora
X		Tribonanthes violacea (usa)
X		Dioscorea stolonifera (usa)
X		Diuris laxiflora
X		Romulea rosea
X		Crossula natans
X		Cassia micrantha
X		Myriocarpus isochrysis (usa)
X		Etropharia Keighlyi
X		Cyperus tenuellus
X		Myriophyllum integrifolium
		SEDGES
		Chorizanthe euclidis
		Meibomia co-angusta
X		Schoenus tenuellus
X		Arctotheca calendula
X		Trifolium dubium
X		Centrolepis aristata
X		Pogonolepis
X		Centrolepis glabra
X		Glossostigma diandra
X		Trielochia centrocarpa
X		Cicciaria (C. triflora?) quadrifida
X		Briza minor
X		Juncus butonius
X		Isolopis? (Isolopis) conchoides
X		Hypoxis occidentalis

X Triglochin calcarata (fat seeds)
Thymus pulegioides

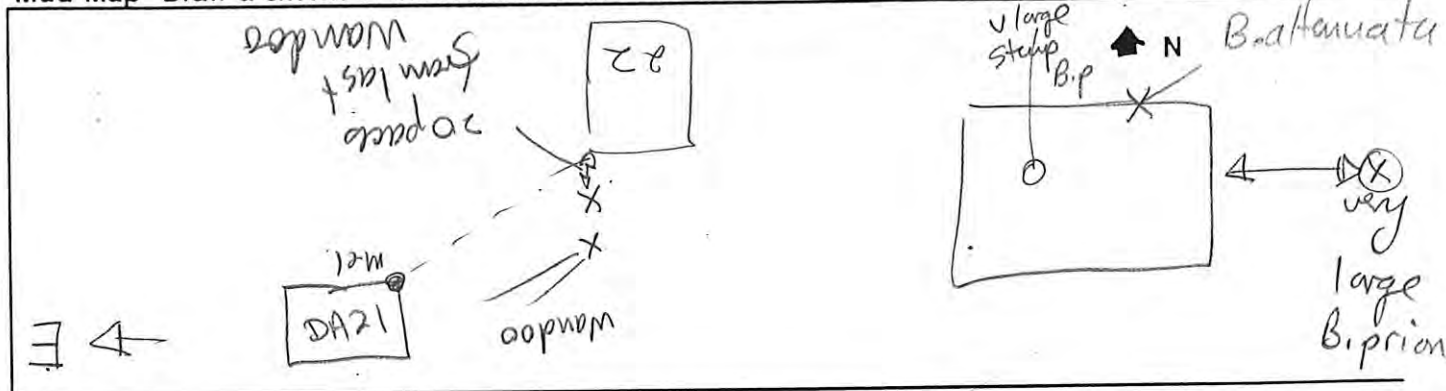
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 22
 DATE TRIP 1-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 5-10-1999 RECORDERS AW/GK/NG/AM
 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.

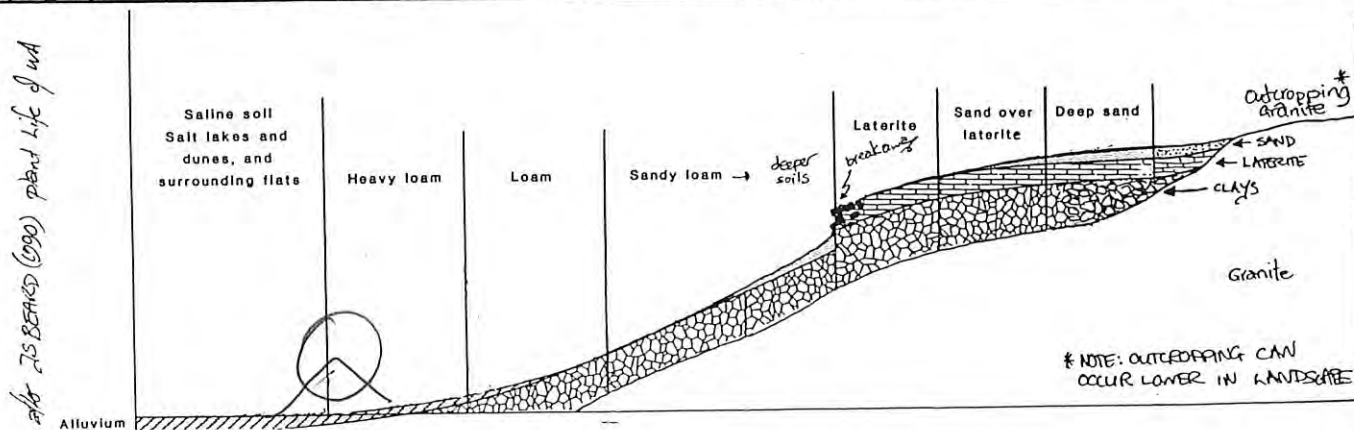


Road Location ↑ 27769, off Mission Rd

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

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 sand Colour yellow
 Exposed rock type _____ % surface _____

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

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

Litter WS, twigs, logs % cover 50/70 Bare Ground 20/30 % cover
 Depth 2-30 cm

3. VEGETATION STRUCTURE AND COVER

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

4. VEGETATION CONDITION

Comments

very good - excellent
grazed in past by stock
heavy no grazing / rabbits

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No DA 22

SITE No. DT 2
Date 1-5-1999

5-10-1999

BUSHLAND PLANT SURVEY RECORD

Label each plant with plants number, site code, date and
Record on Sheet • Column 1 plant name
 • Column 2 plant number

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

5/10/1998

[illegible]

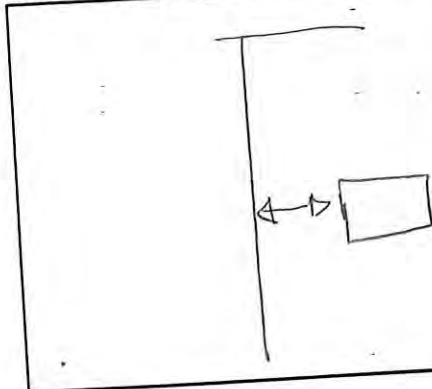
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 23
 DATE TRIP 21-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 5-10-1999 RECORDERS AW/NG/GK/AM/KD
 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

Carters road

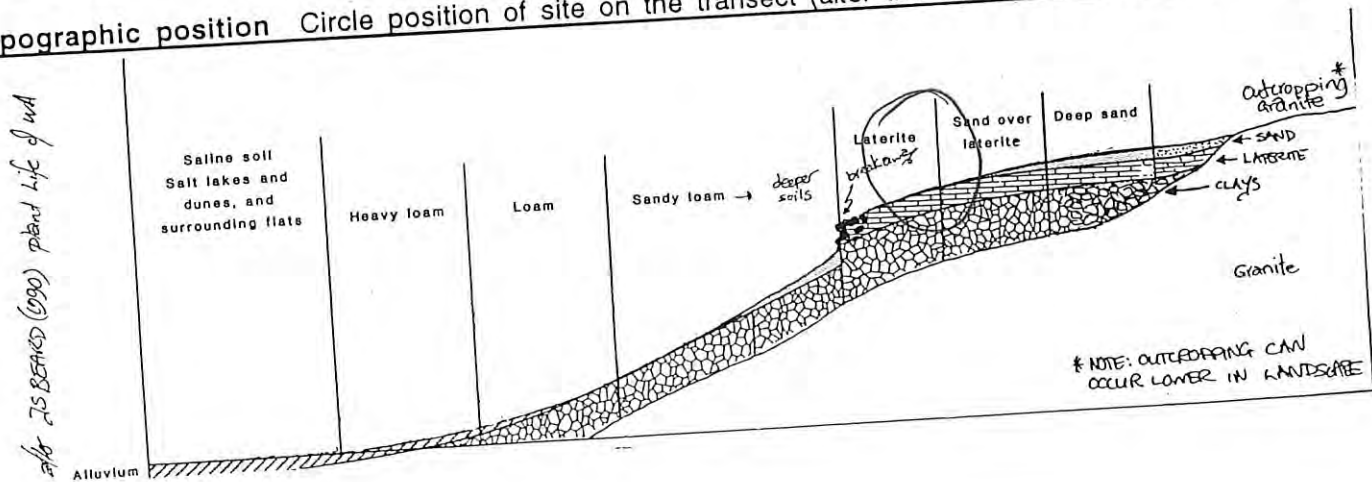
Geographic Location Latitude 33 35 43.8 S Longitude 117 13 31.0 E Altitude 3.0

Reference Map

Photo No 6

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	<u>gentle</u>	steep	Aspect	N	<u>NE</u>	E	SE	S	SW	W	NW
Surface Soil	<u>laterite sandy clay</u>			Colour	<u>brown</u>							
Exposed rock	type <u>laterite</u>			% surface								
Sub-surface Soil	type <u>laterite</u>			depth to rock	<u>20cm</u>							
Rock	type <u>laterite</u>			Colour								
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>Wg</u>	<u>FW</u>	<u>gs</u>	<u>Stems</u>	% cover	<u>70</u>	<u>90</u>	Bare Ground	<u>10</u>	<u>30</u>	%cover	
	Depth <u>2-10</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						MALLES	
	over 15m	5-15m	under 5m	over 8m	under 8m		
LIFE FORM						30m	10m
COVER CLASS (%)						30/50	
DOMINANT SPECIES						Euc. fulcata	
						" densa	
						" drumm	
SHRUBS						SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)		30/50		10	10/30		
DOMINANT SPECIES		Gast. spinos		Xanth. ? drumm	Caloth. sang		
		Petro. divar			Hak. lissoc		
		Dry. cirsoid					
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM						1m	
COVER CLASS (%)		10/20			30/50		
DOMINANT SPECIES		Thys. dichot			Gahnia arist		
					Lepidosp.		

4. VEGETATION CONDITION

Comments

excellent

20x20

name if required	
------------------	--

Exc. wandoo

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

Record on Sheet

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

5-10-1999

[illegible]

// *Lepidosperma* sp A2 Flat Is 1/5 -
 // *Conostylis* set. juv -

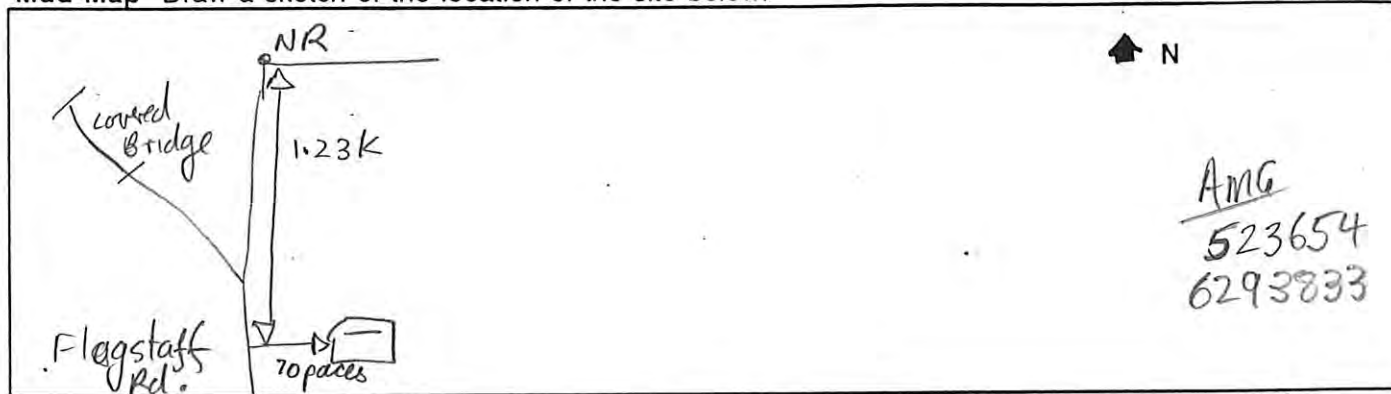
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 24
 DATE TRIP 1-5-1999 RECORDERS AW/NG/GK
 DATE TRIP 5-10-1999 RECORDERS NG/GK/AW/AM/KD
 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.

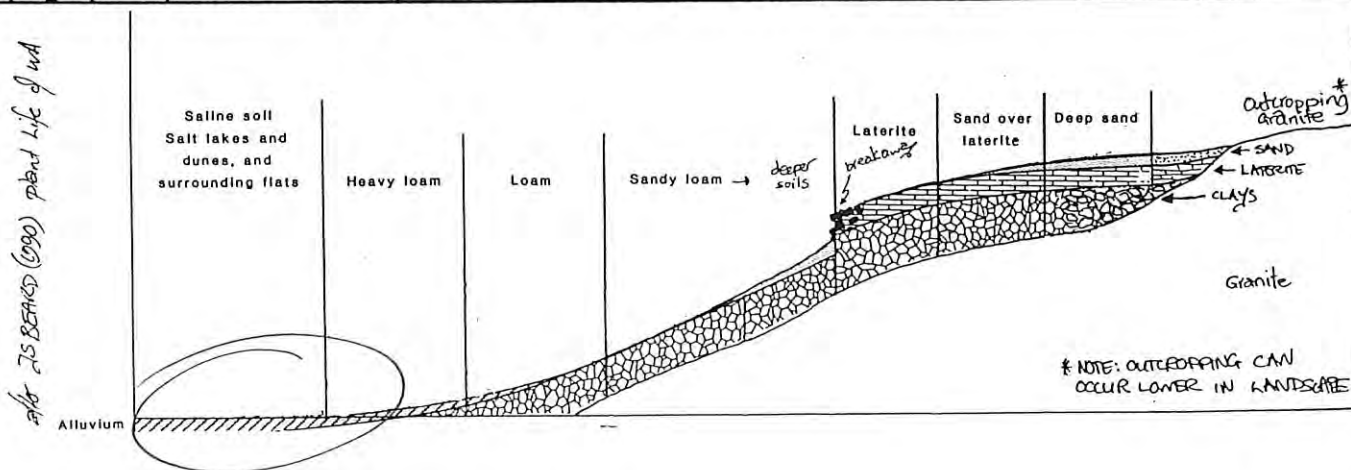


Road Location Lake Flagstaff (NR) Flagstaff Rd

Geographic Location Latitude 33°29'40.7 S Longitude 117°15'16.7 E Altitude 310
 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 clay Colour grey
 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 dead anns, twigs, logs % cover 70/90 Bare Ground 10 % cover
 Depth 5-100 cm

becoming salt affected

Melaleuca

white paper bark
(ADJ) 4m

20 x 20
E loxoph + Sarg hybrid

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No DA 24

Date 1-5-1999

5-10-1999

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

8m, base 2m dk brown sticky bark, top smooth coppery coloured lvs green, buds green.

TREES

Euc. ~~sargentii~~ spatulata
Casuarina ~~obesa~~

MALLEES

SHRUBS

Melaleuca ~~frankii~~ ~~frankii~~
Dysphorisma ~~clavell~~
Atriplex ~~nana~~
Frankenia ~~indica~~
Halosarcia ~~indica~~

SHRUBS (cont.)

GRASSES

Stipa elegant

HERBS

Anagallis arvensis
Senecio gloss
Apium gamnum
Sonchus oleraceus

HERBS (cont.)

5/10/1999
X Biza minor
X ~~Leptochloa~~ ~~tomentosa~~ = ~~Blechnum~~
X ~~Urtica~~ ~~Parentucellia~~ ~~latifolia~~
X ~~Gynandris~~ ~~setifolia~~
X ~~Vulpia~~ ~~myuros~~
X ~~Bromus~~ ~~dianthus~~
X ~~Aira~~ ~~caryophylla~~
X ~~Lolium~~ ~~rigidum~~
X ~~Ehrharta~~ ~~longiflora~~
X ~~Cirsium~~ ~~altissimum~~
X ~~Calandrinia~~ ~~serotina~~
X ~~Parietaria~~ ~~debilis~~
SEDGES
X ~~Schoenus~~ ~~navis~~
X ~~Triglochin~~ ~~strictum~~
X ~~Stilpa~~ ~~pycnostachya~~
X ~~Hypochaeris~~ ~~glabra~~
X ~~Rhynchospora~~ ~~barbata~~
X ~~Phyllanthum~~ ~~paradox~~
X ~~Urtica~~ ~~Bromus~~ ~~horde~~
X ~~Hydrocotyle~~ ~~diantha~~
X ~~Hydrocotyle~~ ~~rugulosa~~
X ~~Cotula~~ ~~bipinnata~~
X ~~Plantago~~ ~~cornopus~~
X ~~Cotula~~ ~~cotuloides~~
X ~~Arctotheca~~ ~~calendula~~
X ~~Parapholis~~ ~~incurva~~
X ~~Mimulus~~ ~~scapigera~~
X ~~Phyllanthus~~ ~~serotinus~~
X ~~Spergularia~~ ~~salina~~
X ~~Salicornia~~ ~~quadrifida~~

ADJ

Mel. strobophylla

Euc. loxophylla no info on bark

Islepis marginata
Acellina mullerii 5/10

DA11 became DA25 - 30/4/99

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA DA SITE NUMBER 11 25
 DATE TRIP 30-4-1999 RECORDERS AW/NG/GK
 DATE TRIP 6-10-99 RECORDERS AW/NG/GK/KD/AM
 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.



NORM's
old site
S of DA10
(not used for fauna)

Road Location

Haddleton - NORM

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

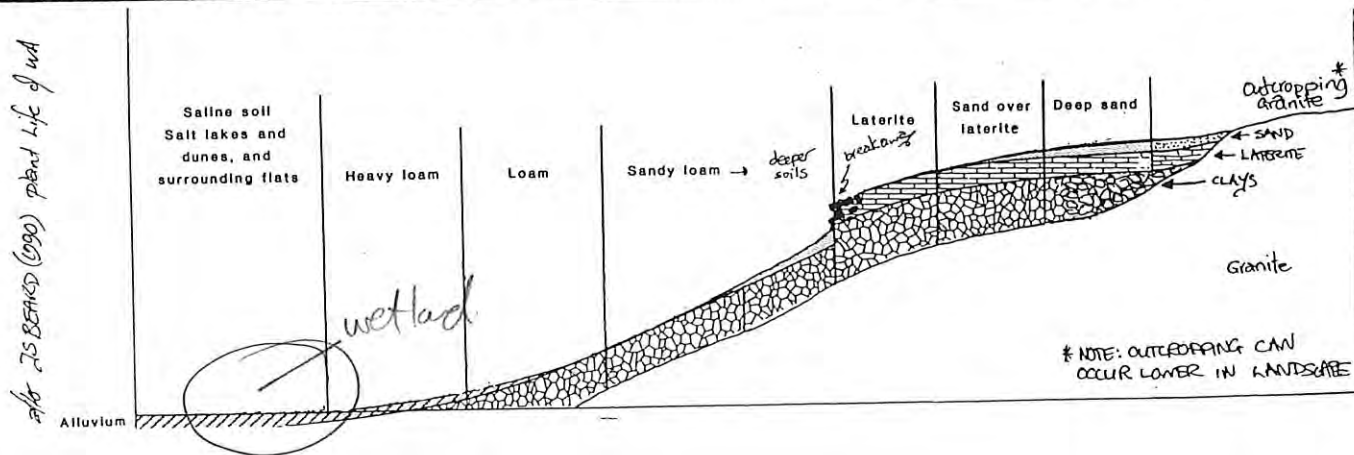
Photograph

Photographer's Name

NG

Photo No

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-white
 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 10g, FW, LG, stems, dead plants % cover 70/90 Bare Ground % cover 10
 Depth 50/20 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.

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		2/10		
DOMINANT SPECIES	<i>Euc. marg</i>		<i>M. el. preiss</i> <i>Bankl. litt</i>		

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		2		30/70	10/30
DOMINANT SPECIES		<i>Xanth. preiss</i>		<i>Pericalym ell</i> <i>Kunzea rec</i> <i>Jacksonia</i>	<i>Hypo. auct</i> <i>Leuc. glab</i> <i>Styl. latif</i>

GRASSES		HERBS		SEDGES	
	over 0.5m		under 0.5m		
LIFE FORM					
COVER CLASS (%)	<2	10/30	2/10/20	10/20	
DOMINANT SPECIES		<i>Paterosonia</i>	<i>Cyathoch. aven</i> <i>Hypolaen</i>	<i>Hypol. exs. alca</i>	

4. VEGETATION CONDITION

Comments *excellent*

Note: Rents collections amounted DA11 30/4/59 refer to DA 25.

DA # 25

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20 + 20

5. SPECIES PRESCENCE

SITE No 30-4-1999

Date ~~30~~ - DA 11 25

6-10-99

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

Record on Sheet

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

same

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA BIRDWOOD SITE NUMBER Ø1 (BirdØ1)

DATE TRIP 21-10-2000 RECORDERS gk

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

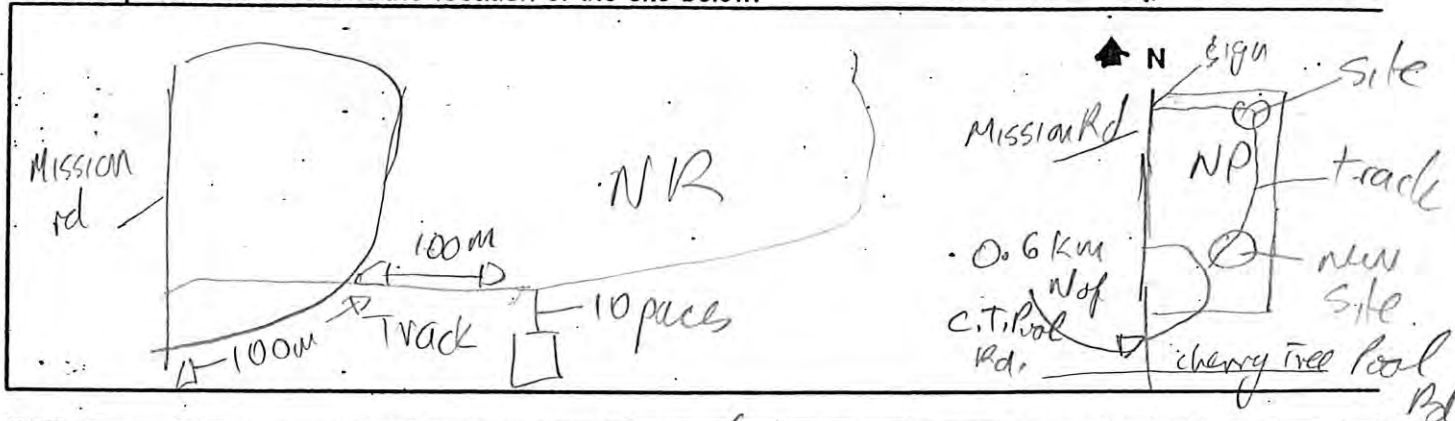
BOTANIST _____

Kojonup 1:100000

1. LOCATION of the QUADRAT

From 'Busland 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 MISSION ROAD / BIRDWOOD NR

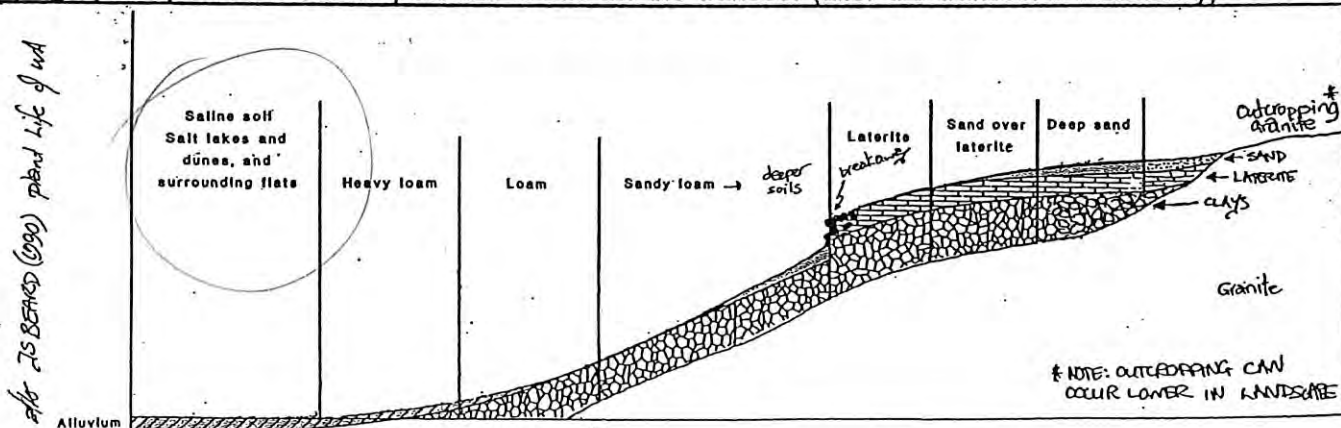
Geographic Location Latitude 33 41 47.3 S Longitude 117 14 31.5 E Altitude 201

Reference Map AMG - 522435, 6271459

Photograph Photographer's Name gk

Photo No Ø7

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



2. SITE DATA Circle the correct response.

soil: PTO

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

Surface Soil Exposed rock type clay % surface brown Colour brown

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

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

Litter 1/2 1/2 1/2 % cover >90 Bare Ground Ø % 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					
	over 15m	5-15m	under 5m	MALLEES	
				over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	10-30				
DOMINANT SPECIES	<i>Euc. astrop</i>				
SHRUBS					
	over 2m	2m-1.5m	1.5-1m	1-0.5m	SHRUBS
					under 0.5m
LIFE FORM					
COVER CLASS (%)					2-10
DOMINANT SPECIES					<i>Acacia</i>
GRASSES		HERBS	SEDGES		
			over 0.5m	under 0.5m	
LIFE FORM					
COVER CLASS (%)	2-10	10-30		10-30	
DOMINANT SPECIES		<i>Canadensis</i>		<i>Mesomelastria</i>	

4. VEGETATION CONDITION

Comments

very good - excellent

soil

Top 8 cm gritty brown sandy clay
white clay

20720

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 wandoo

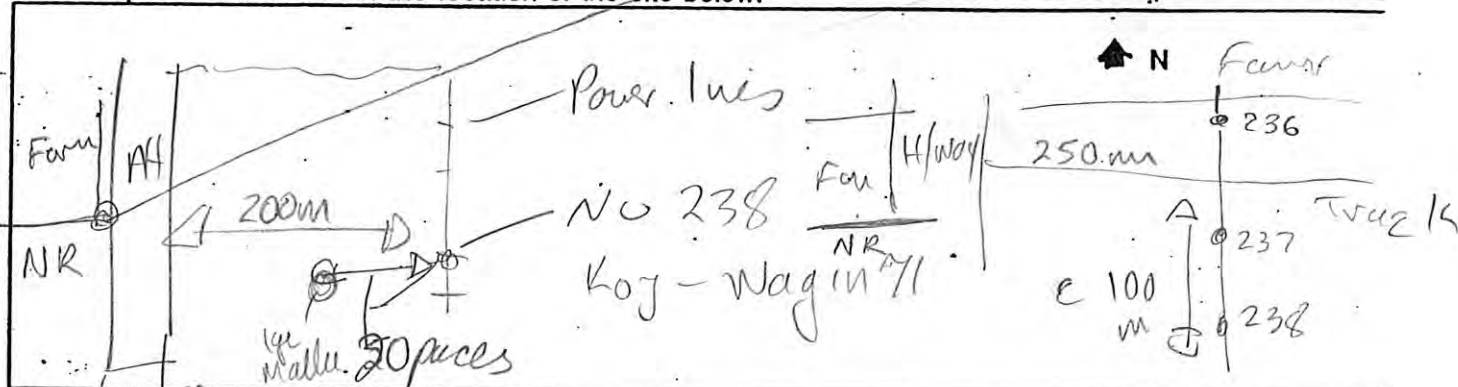
TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. astringens ✓								Friochilus dilatatus ✓			
MALLEES											
				GRASSES							
				Austrostipa ✓							
SHRUBS				Newinchia alopec ✓							
Acacia lassiorapha ✓				Aira caryophyll ✓							
Hecura pulviniformis ✓								SEDGES			
Hakea lasiocarpa ✓								Lahnia / Asterium capellieri → (fin)			
Astroloma prostratum ✓								Jschoenus ✓			
Eutaxia pultanea neurocalyx ✓											
Bilardiera lehmanniana (sp) ✓				HERBS							
Gallya? heteroph ✓				Lonchocarpus micranthus ✓				Arthropodium capill ✓			
Calyptix tetragona ✓				Borja sphaeroceph ✓				Pterostylis sanguinea ✓			
				(Ursula anthem ✓				" " sanguinea ✓			
				Rhus pat ✓				Schoenus ✓			
				Polemonis lessonii ✓				Lahnia anacitrophilla ✓			
				Waitzia citrina ✓				(Austrostipa elegant ✓			
				Brachycom glandul ✓				chaemaes versic ✓			
				Trachym pilosa ✓				Caladenia vulgata ✓			
				Ronulea rosea ✓							
				Drosera macrantha ✓							
				Pterostylis sp ✓							
				" redwood ✓							
				Oritrosanthus laxus ✓							

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Beaufort R NR SITE NUMBER Ø1 Beaufort
 DATE TRIP 31-10-2000 RECORDERS GR DA27
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____ Kojonup 1:100000

1. LOCATION of the QUADRAT

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



Road Location

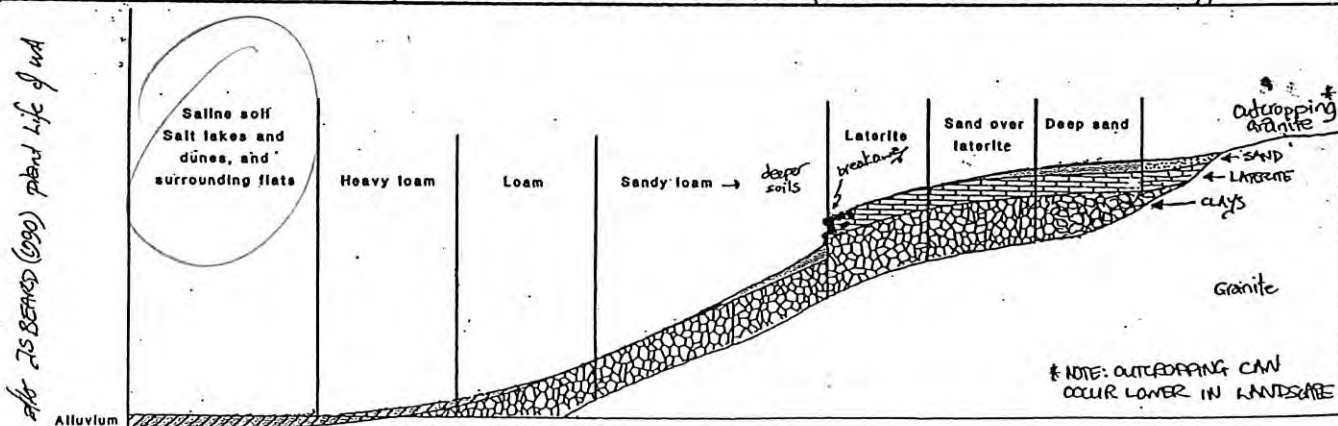
Geographic Location Latitude 33 29 57 S Longitude 117 04 00.4 E Altitude 3.1

Reference Map AMG - 506203, 6293358

Photograph Photographer's Name GR

Photo No Ø5

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</u>							Colour					
Exposed rock	type							% surface					
Sub-surface Soil	<u>clay</u>							Colour					
Rock	type							depth to rock					
Drainage well	<u>mod</u>	poor	depth water	cm	<u>Wet</u>	all year	<u>winter/spring</u>						
Litter	<u>1/5</u>	<u>twigs</u>	% cover	<u>30/70</u>	Bare Ground	<u>30</u>	%cover						
	Depth	<u>12-5</u>	cm										

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.

Comments

yellow-brown
gritty clay

60cm

Beauf 1

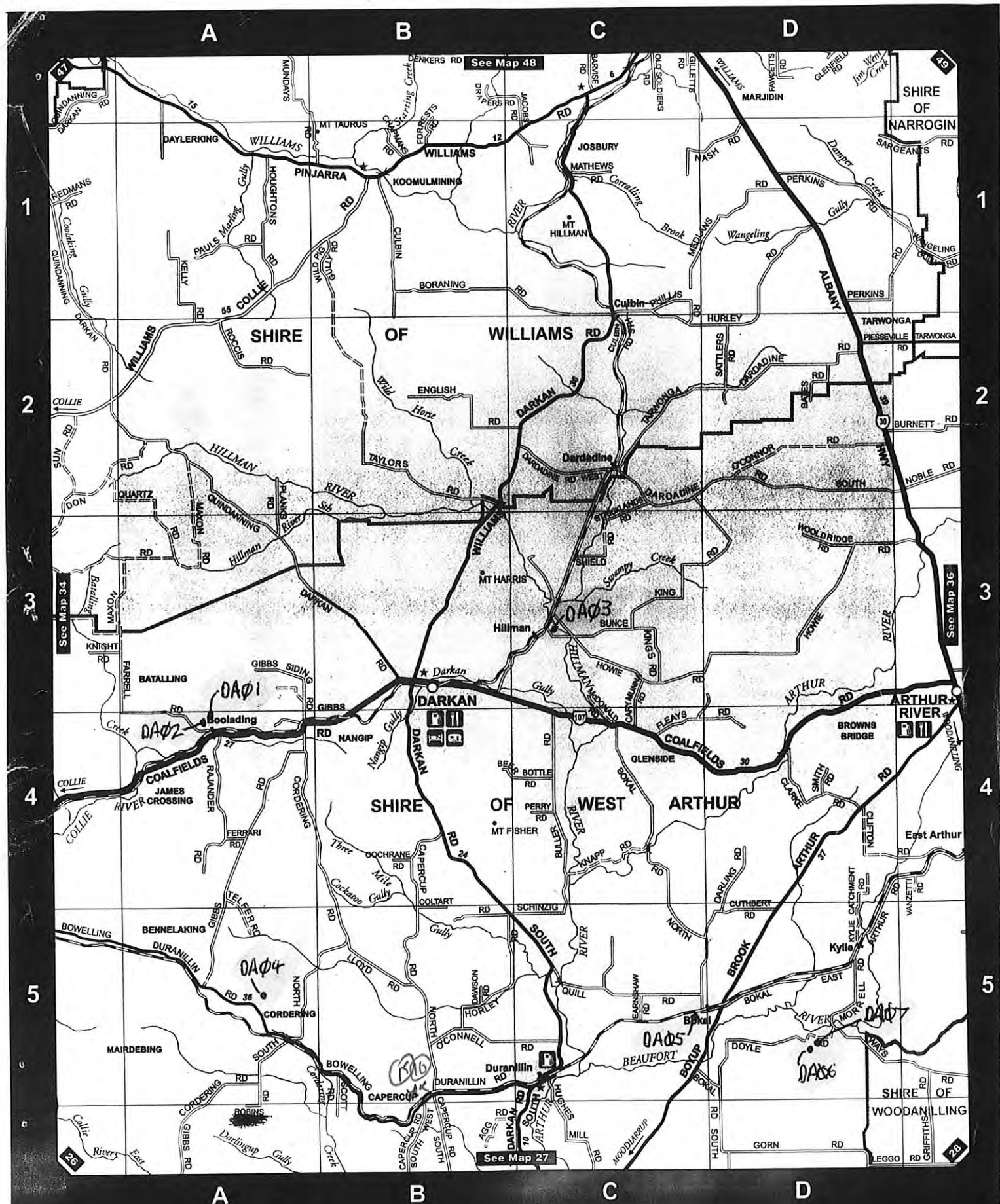
Cover sheet 2 ~~FEU~~ MAURE ✓
Data sheet 2 THES. ~~MAURE~~

[? wandoos wandoos (tree)
epilone polydora (maure) ✓

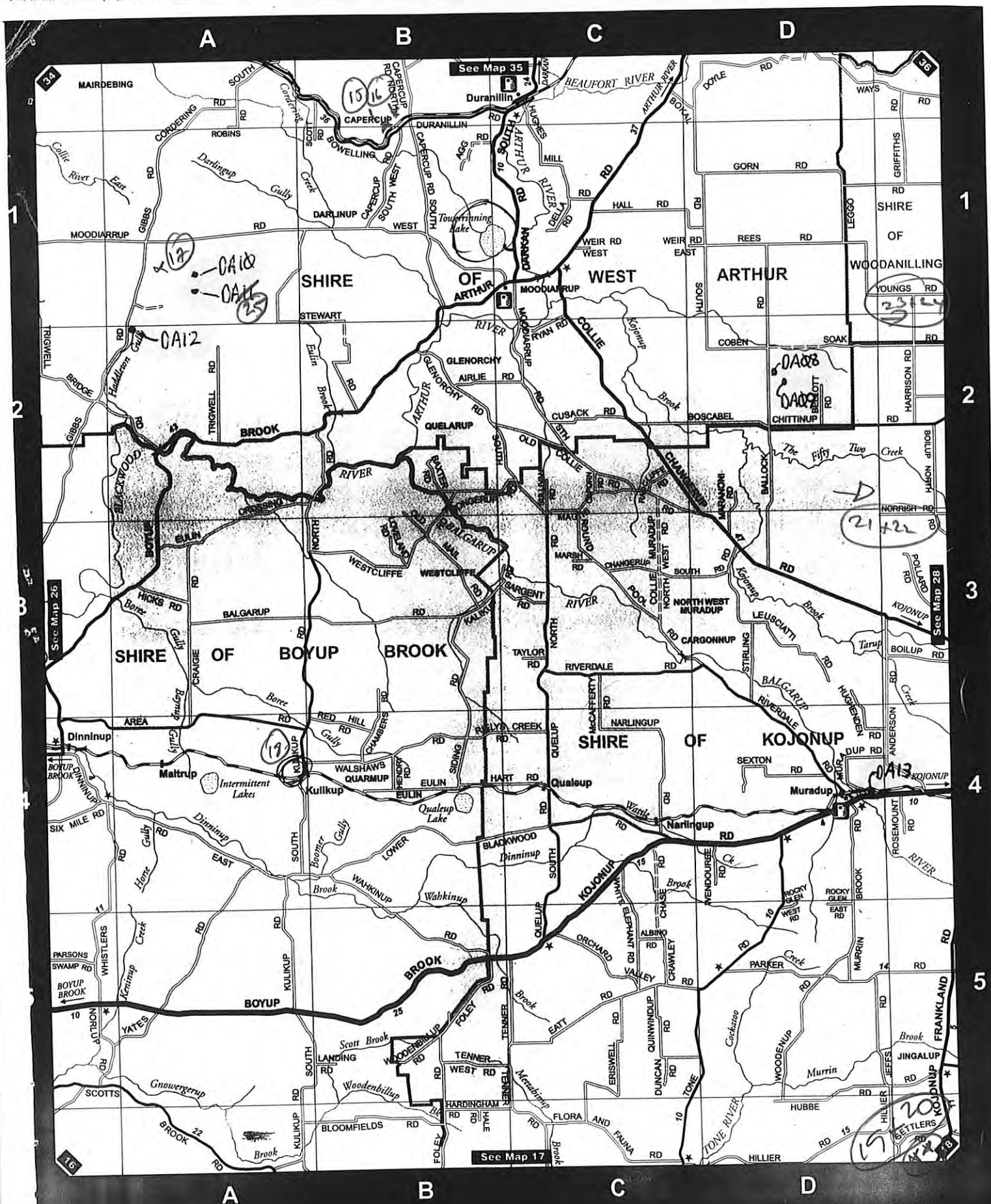
[spudmuck (tree)
vergradi (maure) ✓

deep [yellow-brown clay
gritty
60cm]

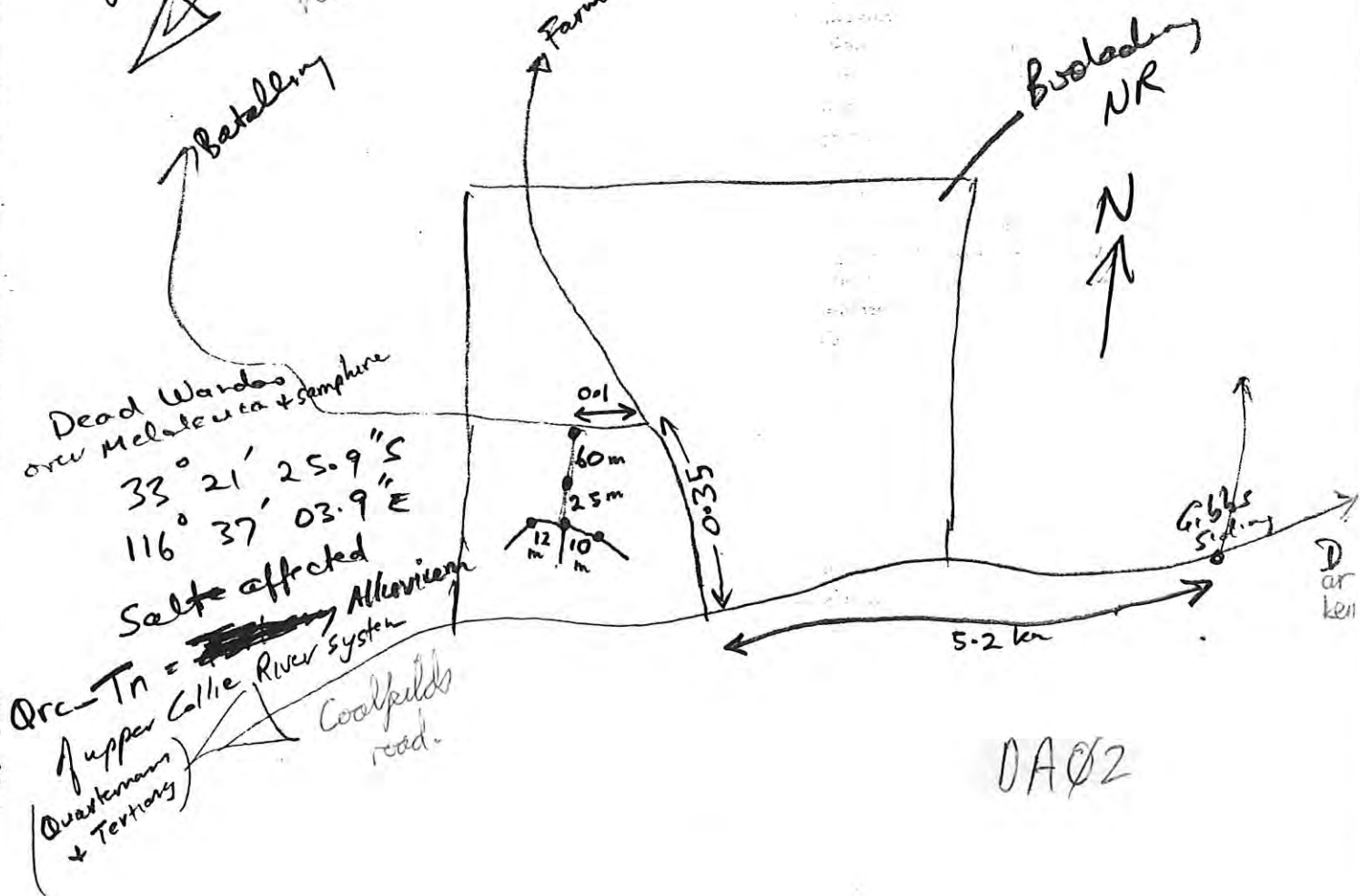
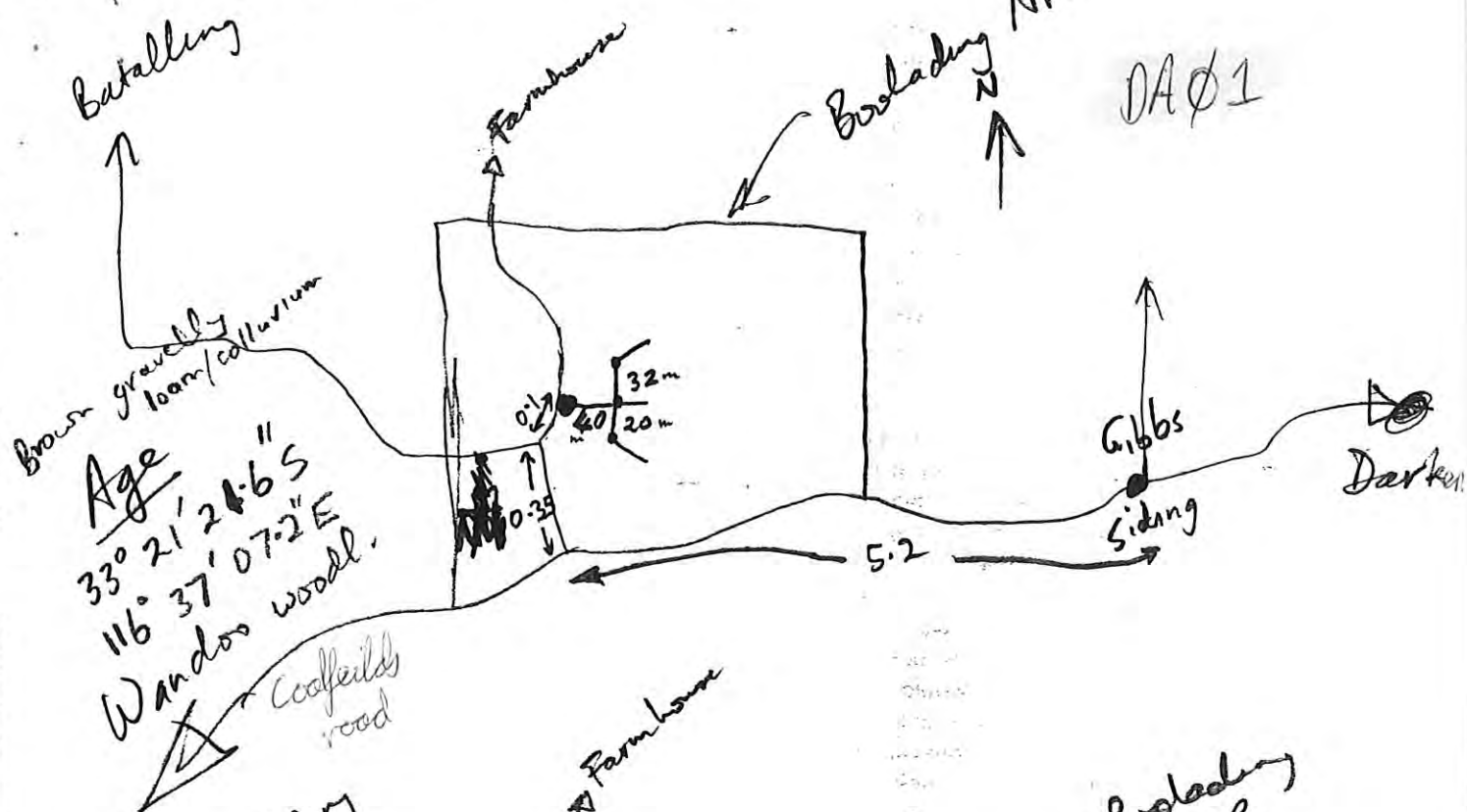
Scale 1 : 250 000
(1 cm = 2.5km)
For scale bar see page 14



If You're Not Wearing a Seatbelt



DARKIN SURVEY AREA



DARKIN SURVEY AREA

7 km NE of Darkin

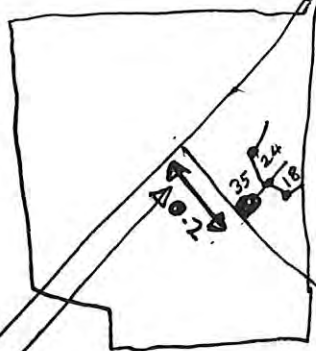
DAØ3

Hillman

$33^{\circ} 18' 47.3'' S$

$116^{\circ} 48' 21.8'' E$

Wanloo - Jam - Melaleuca
open woodland



Bunce road



Gza

Wanloo - Jam -
Melaleuca

DARKIN
4.5 km

4.5

ARTHUR
RIVER

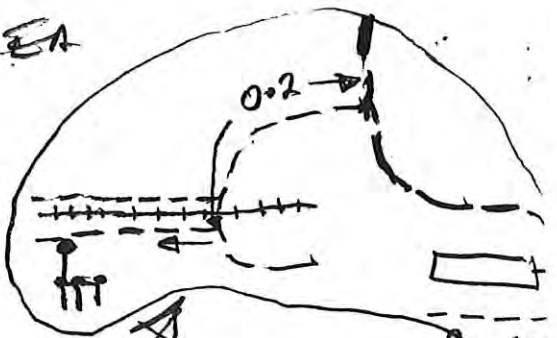
DARKIN SURVEY AREA

c. 21km SE of Barker

Cza
Wandoo / sedges
imminently salt
or inundation
affected

33° 29' 17.1" S
116° 53' 11.6" E

BOKAL NORTH RD



ARTHUR RIVER
20k

BOKAL SIDING

DAØ5

DINNINGUP
20k

BOTUP BROOK - ARTHUR RD

Dead Mans Swamp Nature Reserve
27 k SE of Darkin
5 k ESE of Bokal siding

Mortell rd.

Beaufort River



CZS = Kauring Sand Pl.
Wandoo - She oak - Jam
Dense Woodland
deep grey sand =
orange gravel
33° 30' 05.6" S
116° 56' 53.8" E

DAØ6



DAØ7

33° 30' 02.1" S
116° 57' 10.1" E
Cza Saline River
Bank + Swamp
Casuarina obesa
brow Samphire
+ Melaleuca

SAP

Darken burner Area

$33^{\circ} 28' 13.0'' S$

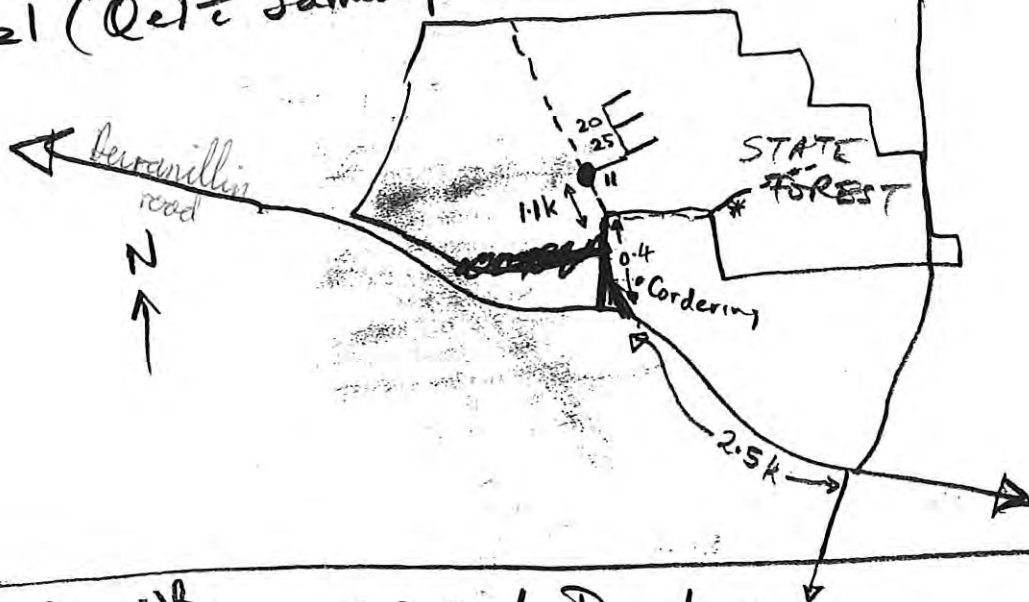
$116^{\circ} 37' 59.9'' E$

C21 (Qe) = Jarrah forest

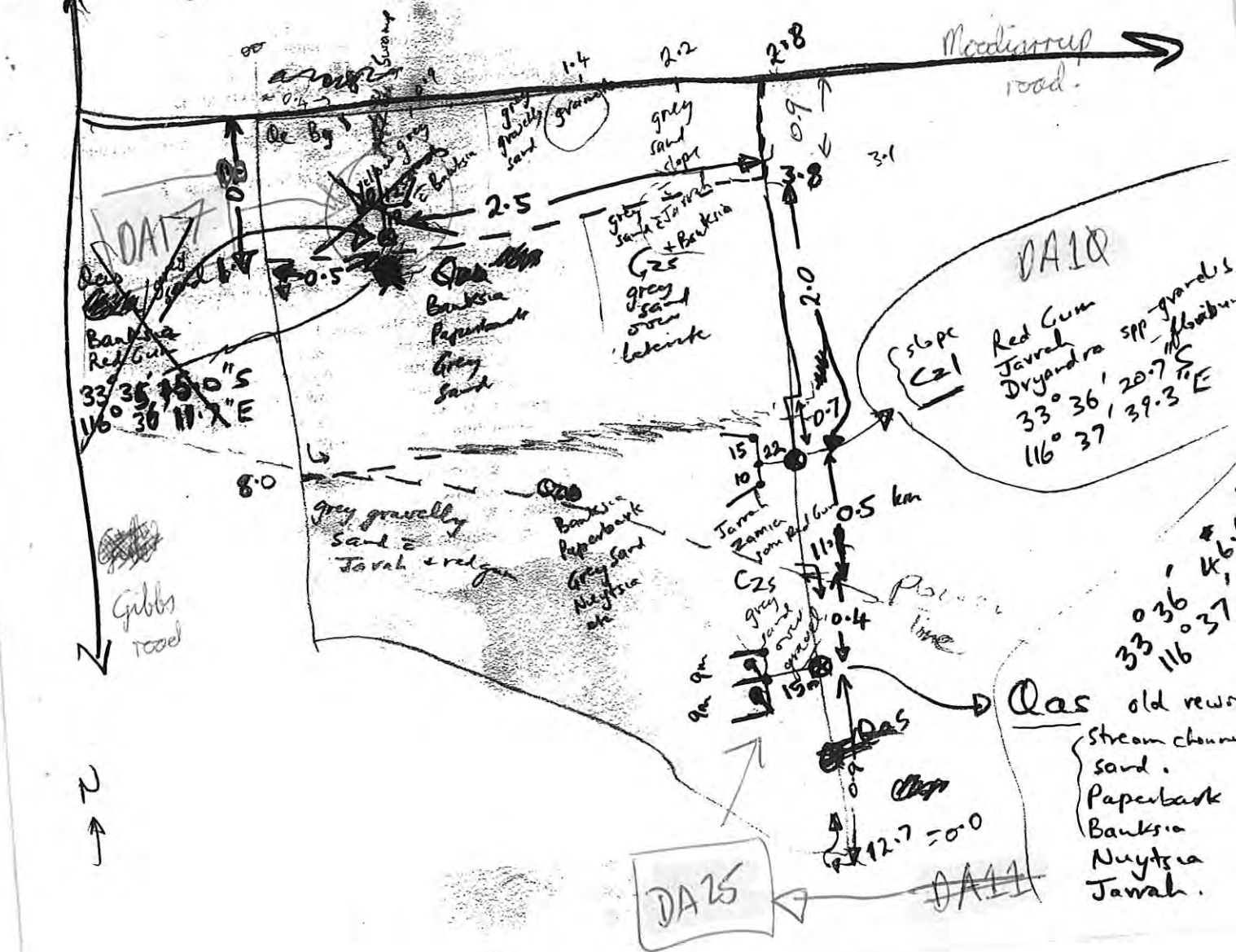
17 km SW of Darkin

Gibson

DA04



Hadderton NR
30 km SSW of Darkin



New DA 11



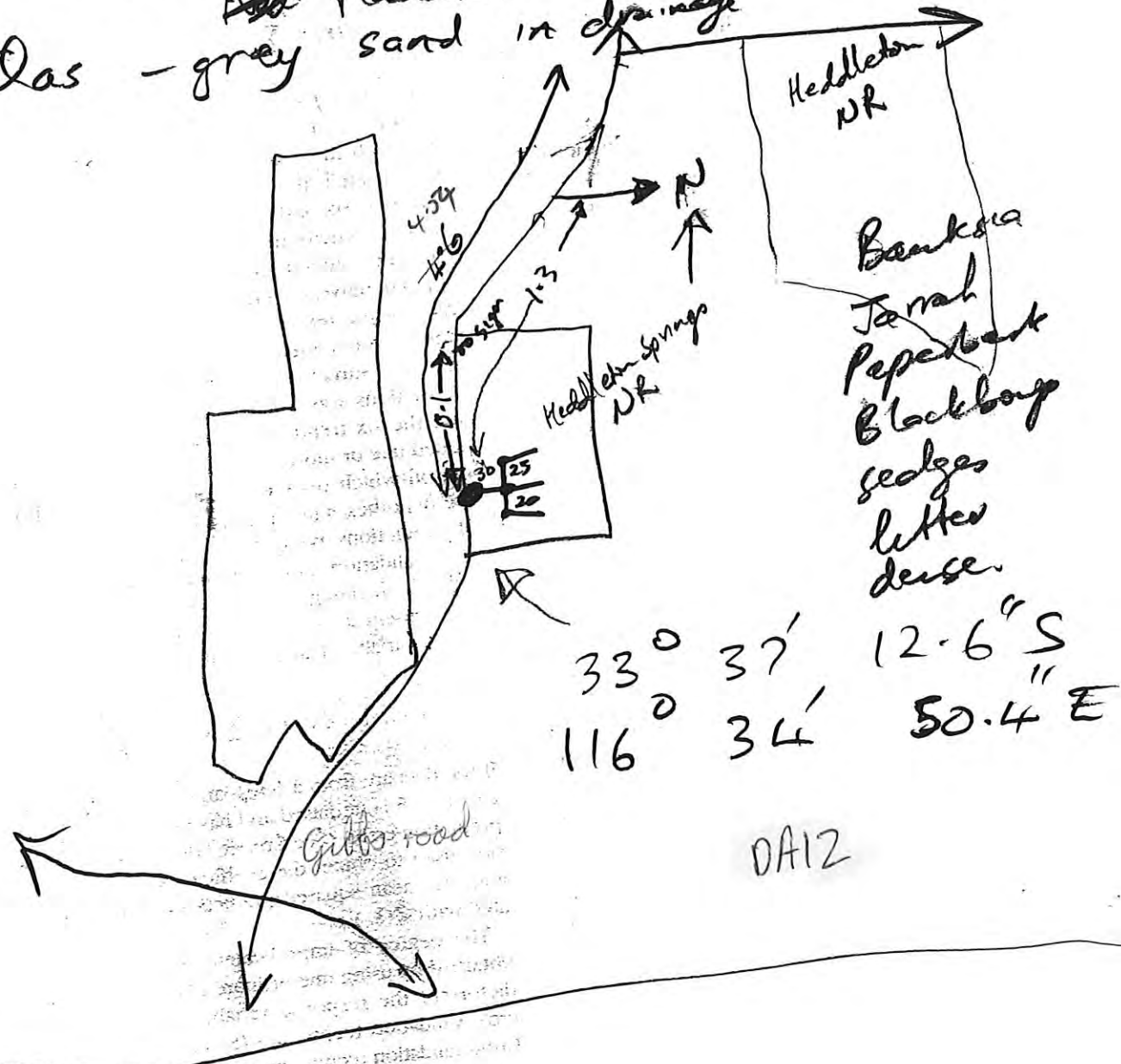
Sheoak ~~sh~~
over
sedges
granite grass
etc
granite
grit +
loam



DARKIN SURVEY AREA

~~At~~ Haddleton Spring N.R.

Qas - grey sand in drainage



33° 116' 37' 34' 12.6° S 50.4° E

DA12

Darken Survey Area

UCL 18 km SSE of Darkin
Uncommittled Crown Land

UCL
Uncommitted Crown Land

~~DAØ8~~

Czs cream-
lgrey sand &
gravel

Wardoo-Javrah / C25 lgrey gravel
+ Proteaceous Heath
+ Myrtaceous Dryland Shrubs

33° 38' 48.5" S
116° 56' 18.9" E

DAØ9

33° 38' 59.1" S
116° 56' 23.7" E

B (Balkulig)

pink-brown loam over
pinkish clay

Wandoo / Prickly Biscuit
+ Xanthorrhoea.

Slope below Q_c

Some granite exposed
over hill.

Ballock road

N
↑

- ROBUST
TIP

15 kW
Kotlova

York
surface on
Age

Valgerup River

Muradpur

DA 13

33° 50' 29.8" S
116° 59' 19.0" E

Kojomur
N

Jam - She eat
one - grand
letter -
includes word
Red - Ben