

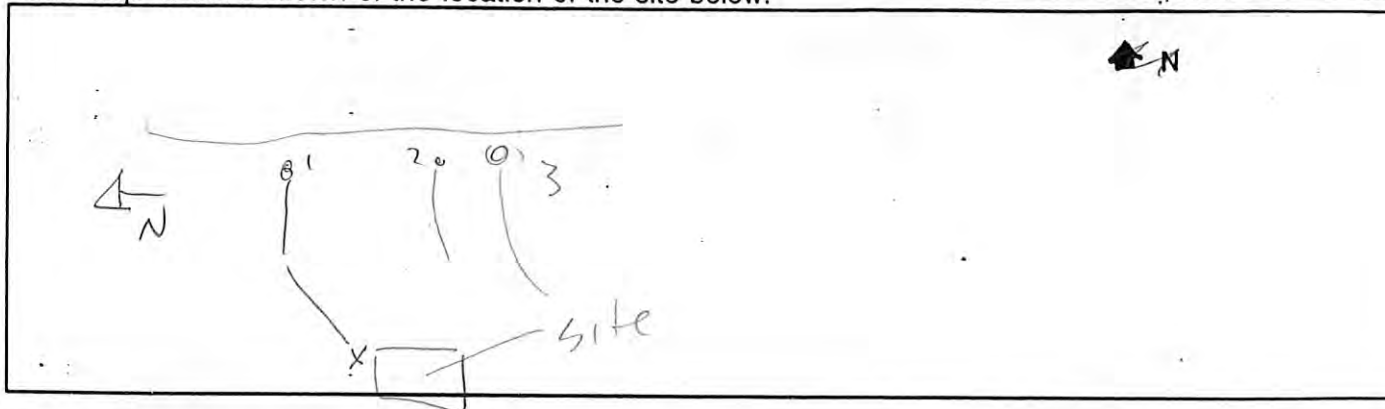
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Esperance SITE NUMBER ES 01
 DATE TRIP 12-10-2000 RECORDERS NG/GK/AW/WM
 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.



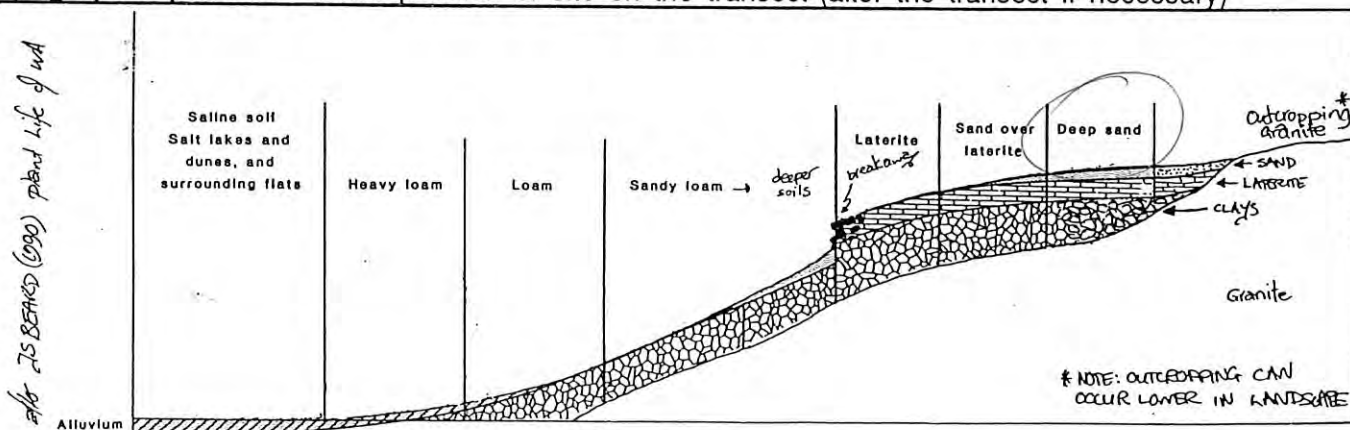
Road Location Helms

Geographic Location Latitude _____ 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	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW	
Surface Soil	<u>sand</u>				Colour	<u>white</u>							
Exposed rock	type				% surface								
Sub-surface Soil	<u>sand</u>				Colour	<u>white</u>							
Rock	type				depth to rock								
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year		winter/spring				
Litter	<u>100% twigs</u>		% cover	<u>30/70</u>		Bare Ground	<u>20</u>		%cover				
	Depth <u>0-5</u>		cm										

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%
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TREES				MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30-70		30-70		10-30
DOMINANT SPECIES	<i>Banks. speciosa</i>		<i>Mel. thym</i> <i>Mel. pentag</i> <i>Aden. cuneatus</i> <i>Xanth. platy</i>		<i>Leucop. sp</i> <i>Dryand. armata</i>
GRASSES		HERBS		SEDGES /	
	over 0.5m			under 0.5m	
LIFE FORM					
COVER CLASS (%)	<2	<2		30-70	
DOMINANT SPECIES				<i>Lepidos. aphyll</i> <i>caustis dioica</i>	

4. VEGETATION CONDITION

Comments

beret ca 10 yrs ago, regrowing
chained

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20720

5. SPECIES PRESCENCE

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

SITE No ES 81
Date 12-10-2000

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
				Calothamnus			✓	Stylidium ~~pratense~~			
			✓	Franklandia lucifolia				Hakea obliqua (usp)			
				Acacia aemula ssp aemula				Lysinema ciliatum			
				Stirlingia simplex				Hibbertia recurvifolia (usp)			
				Chorizema				Isopogon polyceph			
			✓	Synaphaea oligantha (usp)				Leucopogon			
				Beatuffortia				Gomphol confert			
MALLEES				Hakea ruscifol			✓	Uedhenaultia tubiflora			
				GRASSES			✓	Platysace effusa			
				Amphip. torbin				Leucopogon conosteph			
				" sp. awnless				Andersonia			
								Hibbertia anervia			
SHRUBS								Microcorys sp			
Banksia speciosa				Astroloma prostratum				SEDGES			
" pulchella			✓	Gompholobium baxteri				Caustis dioica			
Nuytsia floribunda			✓	Johnsonia acaulis				Anarthria scabra			
Xanthorrhoea platyphylla								Tetraria			
Oriogonchena micrantha								Lepidosperma aphylla (usp)			
Calyptrix								Melomelasma tetrag			
✓ Darwinia vestita				HERBS				Cyathochaeta claudes			
Agonis spathulata major				Paterosonia rudis				Lepidosp ang squamula (usp)			
✓ Daviesia hakeoides ssp hakeoides				Drosera sp - bysme to young				Restio Hypolaena fastigata (usp)			
Hibbertia Eatoniae			usp	Pyrorchis nigricans				Lyginia barbata			
Adenanthos cuneatus				Drosera				Itarperia			
✓ Pimelea angust brevisfolia				Conostylis breviscap (usp)				Anarthria humilis (usp)			
✓ Melaleuca pentagona scabra				Drosera (climbing)				Schoenus carvifol			
" thymoides				Monotaxis Monotaxis parii				✓ Schoenus pleistoneon (usp)			
Jacksonia spinosa				Stylidium repens							
Gompholobium baxteri			✓	Baeckea							
✓ Cassytha glabella				Verticordia densiflora							
✓ Leucopogon sp (usp)			usp	Acacia preissiana							
Dampiera fasciculata			(usp)	Leptospermum maxwellii (usp)							
Ptilotocarpa				Xanthocarpus haegei							

Argemipallum niveum (usp) laxmann ramosa deflexa
Dryandra ~~curvata~~ (usp) ~~curvata~~
Melaleuca tuberculata "stewartii"

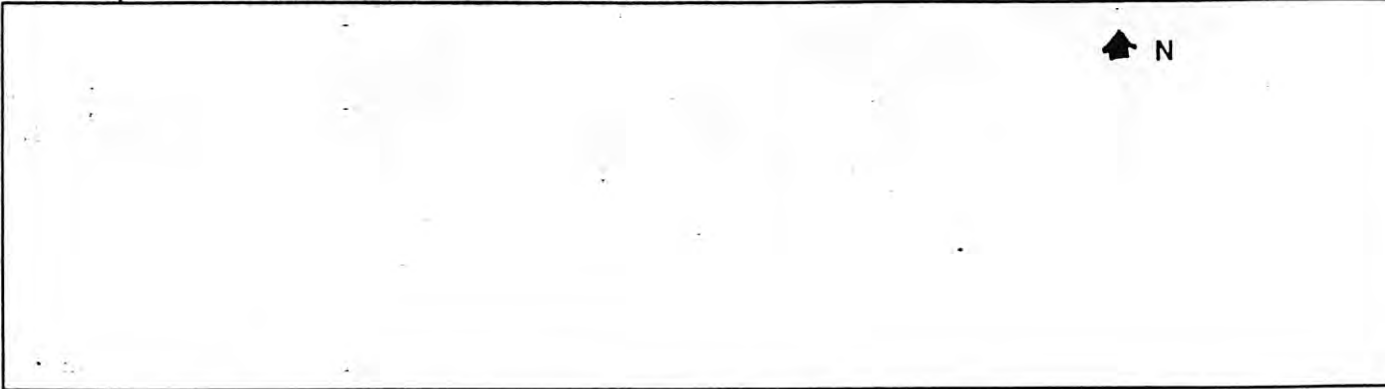
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES 02
 DATE TRIP 12-10-2000 RECORDERS NG/GK/AW/WM
 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.

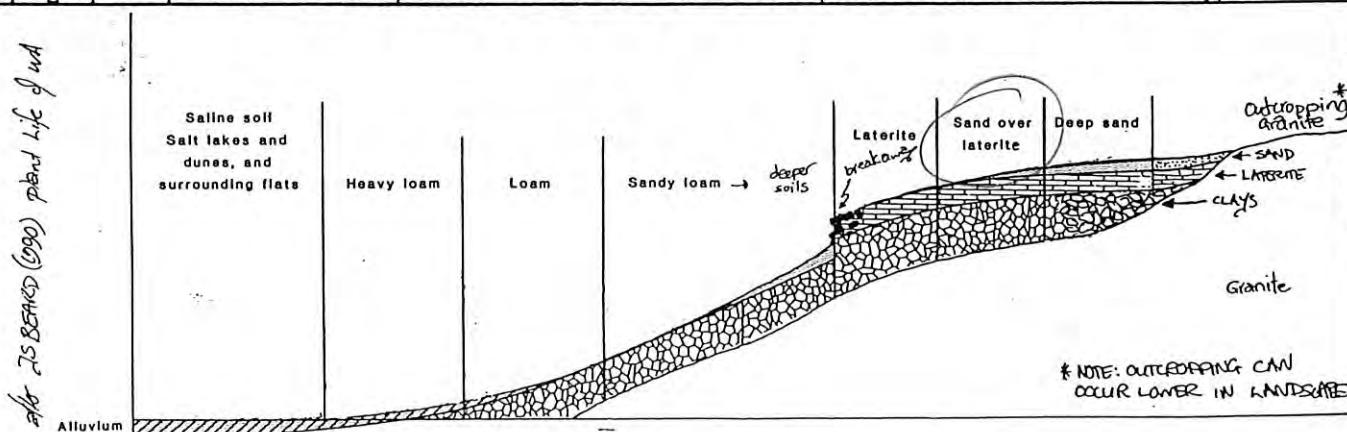


Road Location

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

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

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

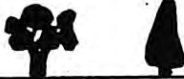
Drainage well (mod) poor depth water _____ cm **Wet** all year winter/spring

Litter lg, twig % cover 70-90 **Bare Ground** 10-30 %cover
 Depth 2-5 cm

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		
DOMINANT SPECIES			<i>Nuytsia fl</i>		
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2		30-70		
DOMINANT SPECIES	<i>Lamb. Inermis</i>		<i>Alloc. hum</i> <i>Agonis</i> <i>Banks. nutans</i> <i>Hakea trif</i>		
GRASSES		HERBS	SEDGES	SEDGES	
	over 0.5m		over 0.5m	under 0.5m	
LIFE FORM					
COVER CLASS (%)	2			30-20	
DOMINANT SPECIES				<i>Anarthria</i> <i>Mesomel. styg</i> <i>" tetragonia</i>	

4. VEGETATION CONDITION

Comments

very good — excellent
? chained

20×20

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

[illegible]

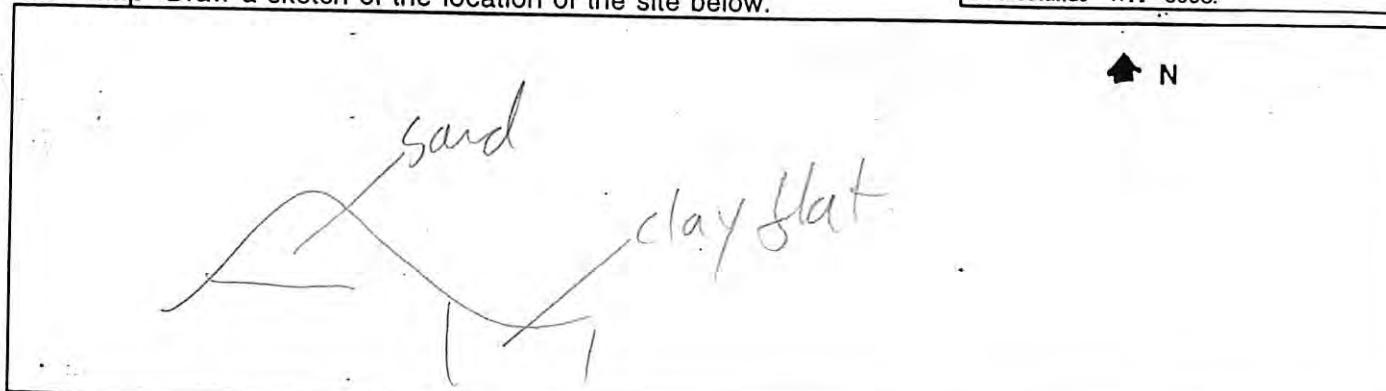
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES03
 DATE TRIP 12-10-2000 RECORDERS NG/GK/AW/WM
 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

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

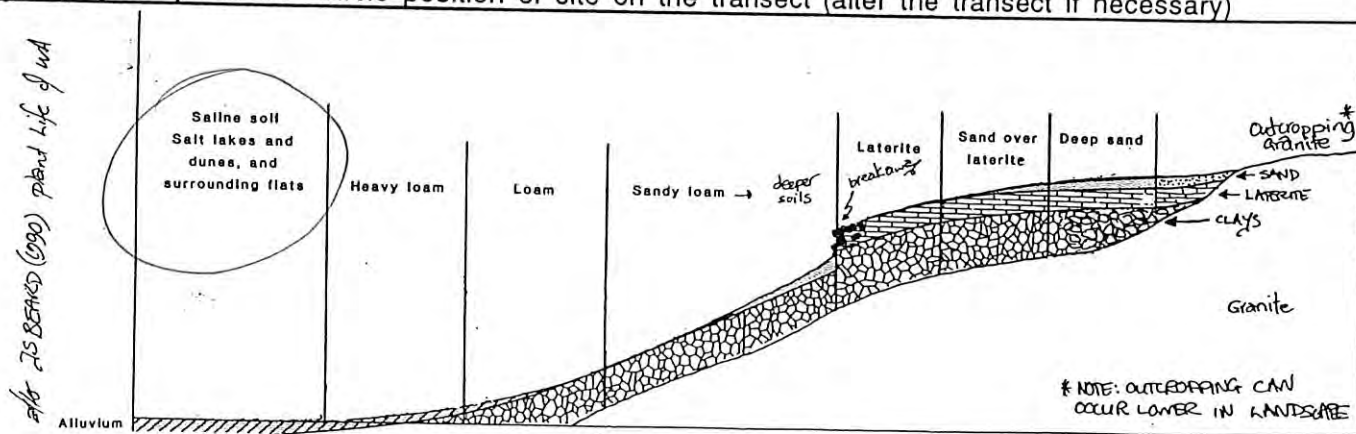
Photograph

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>clay</u>				Colour	<u>grey</u>						
Exposed rock	type				% surface							
Sub-surface Soil	<u>clay</u>				Colour	<u>grey</u>						
Rock	type				depth to rock	<u>>1m</u>						
Drainage	well	<u>mod</u>	poor	depth water	cm	<u>Wet</u>	all year	<u>winter/spring</u>				
Litter	<u>vs twigs</u>		% cover		<u>>70</u>		Bare Ground	<u>30</u>		%cover		
	Depth		<u>2-10</u>		cm							

3. VEGETATION STRUCTURE AND COVER

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

TREES			MALLEES	
	over 15m	5-15m	over 8m	under 8m
LIFE FORM				
COVER CLASS (%)			30-70	
DOMINANT SPECIES			Mel. cuticularis	
SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	under 0.5m
LIFE FORM				
COVER CLASS (%)	2-10			2
DOMINANT SPECIES	Mel. laterifl. A. neallii			Darwinia drumm
GRASSES		HERBS	SEDGES	over 0.5m
				under 0.5m
LIFE FORM				
COVER CLASS (%)	2-10	2-10	2-10	10-30
DOMINANT SPECIES	Austrodanthonia	mixed	Lahnia trifida	Schoenus submiser

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

// Leucopogon parviflorus. 

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES 04
 DATE TRIP 12-10-2000 RECORDERS NG/GK/AW/WM
 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.



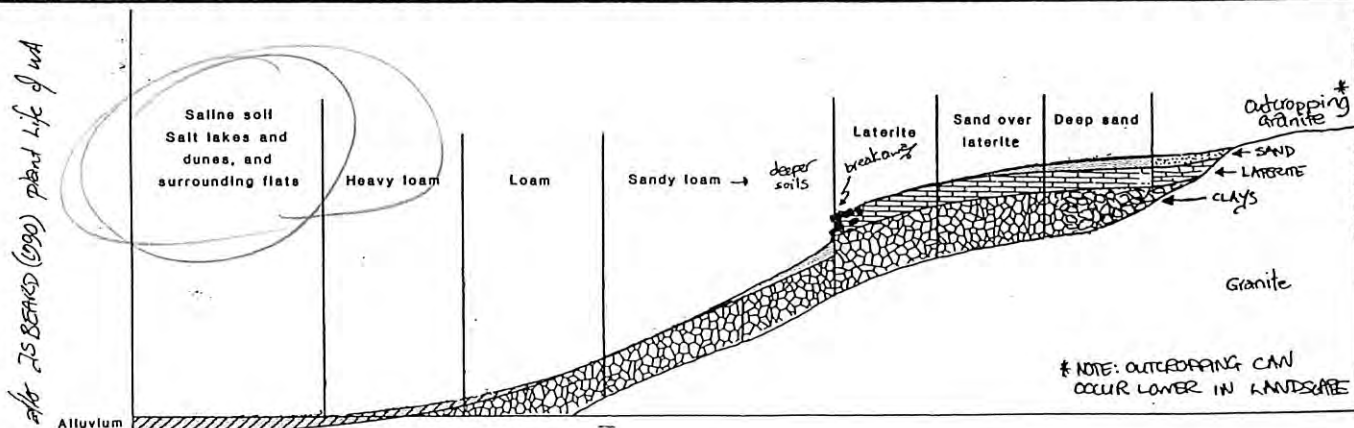
Road Location Willenoon Rd

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

Surface Soil type clay Colour grey
 Exposed rock type _____ % surface _____

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

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

Litter	<u>twigs</u>	<u>15g</u>	% cover	<u>30</u>	Bare Ground	<u>50/70</u>	% cover
Depth	<u>2-10</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			Mel. cutic (dead)		

SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10/30-20			10-30
DOMINANT SPECIES		Mel. lateriflora			Sarcocolla

GRASSES		HERBS		SEDGES	
	over 0.5m		under 0.5m		
LIFE FORM					
COVER CLASS (%)			10-30		
DOMINANT SPECIES			Lahmia trifida (mostly dead)		

4. VEGETATION CONDITION

Comments

salt affected
trees dead/dying

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20x20

5. SPECIES PRESCENCE

SITE No ES 04

Date 12-10-2000

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

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

same

[illegible]

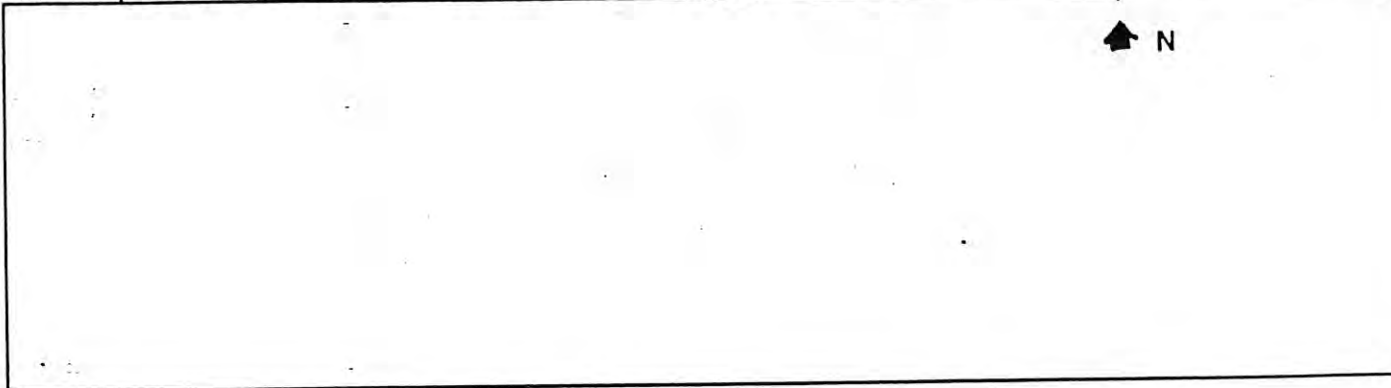
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Esperance SITE NUMBER ES 05
 DATE TRIP 12-10-2000 RECORDERS NG/GK/AW/WM
 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.



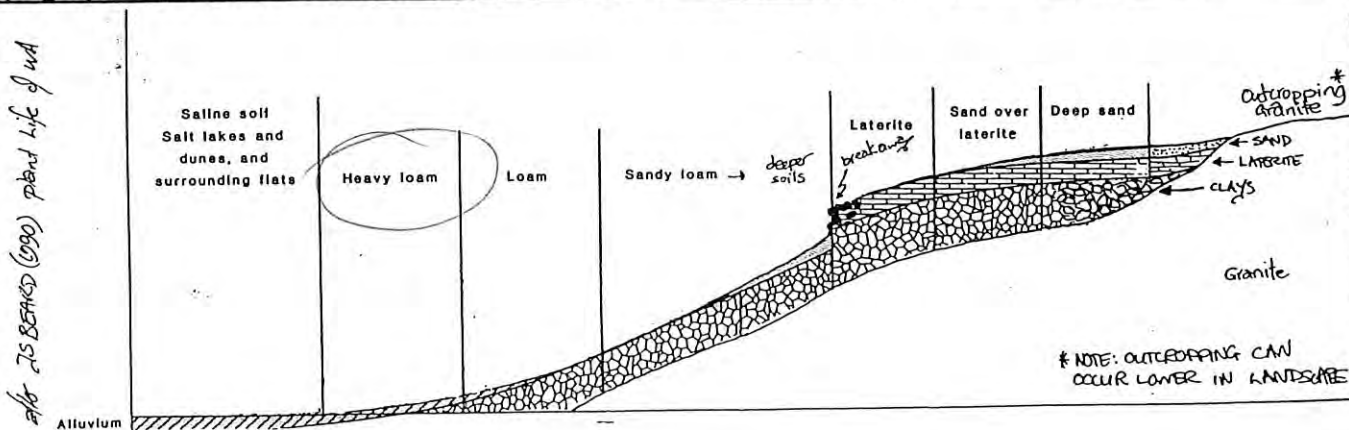
Road Location

Geographic Location Latitude _____ 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	<u>flat</u> gentle steep	Aspect	N NE E SE S SW W NW
Surface Soil	<u>sand</u>	Colour	<u>grey-white</u>
Exposed rock	type _____ % surface _____		
Sub-surface Soil	<u>clay</u>	Colour	_____
Rock	type _____ depth to rock _____		
Drainage	<u>well mod</u> poor depth water . cm	Wet	all year winter/spring
Litter	<u>vs, bark, twigs</u> % cover <u>70/90</u>	Bare Ground	<u>30</u> %cover
	Depth <u>2-10</u> cm		

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 (%)					10-30
DOMINANT SPECIES					Euc. forest + Euc. ? ptilata
	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10		10-30		2-10
DOMINANT SPECIES	Banks. media		Hakea pand Melaleuca		Mel. scabra
	GRASSES		HERBS	SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	L2		L2		20-30
DOMINANT SPECIES					Lepidosperma

4. VEGETATION CONDITION

Comments

excellent

20×20

BUSHLAND PLANT SURVEY RECORDING SHEET			
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

[illegible]

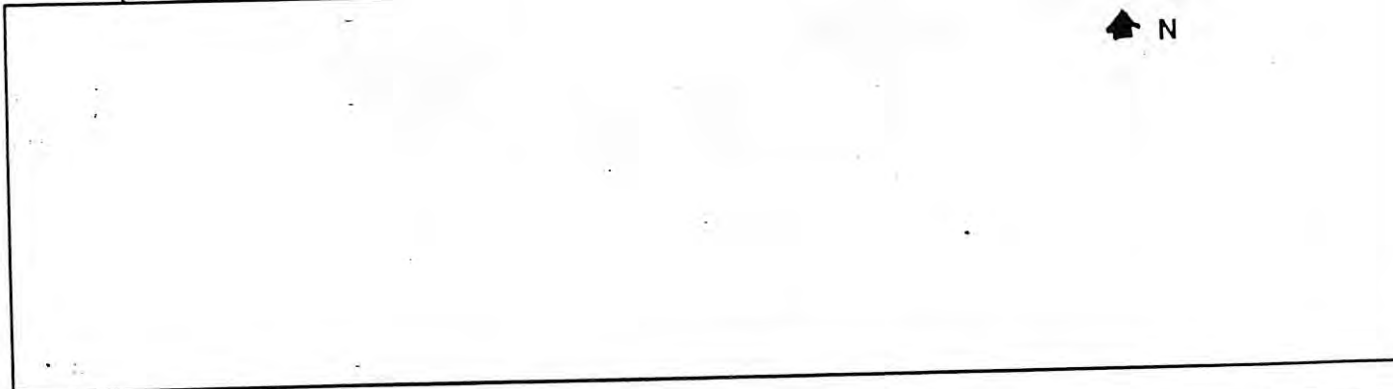
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Esperance SITE NUMBER ES 06
 DATE TRIP 11-10-2000 RECORDERS NA/GK/AW/WM
 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 _____ S Longitude _____ E Altitude _____

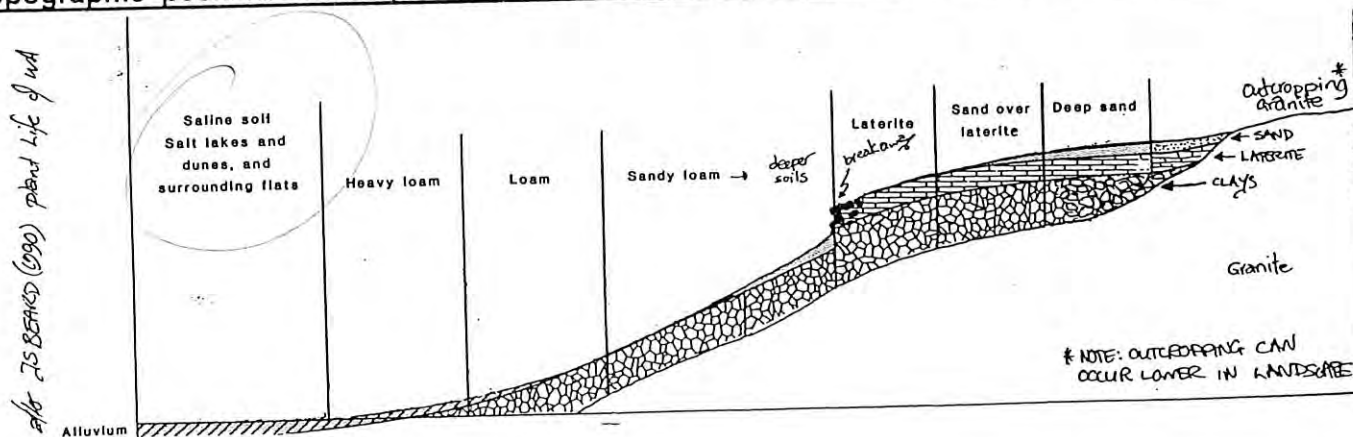
Reference Map _____

Photograph

Photographer's Name NG

Photo No 08

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>gypsum</u> clay	Colour	<u>grey</u>
Exposed rock	type	% surface	
Sub-surface Soil	<u>clay</u>	Colour	
Rock	type	depth to rock	<u>> 1m</u>
Drainage	well mod <u>poor</u>	depth water	cm <u>Wet</u> all year <u>winter/spring</u>
Litter	<u>twigs</u>	% cover	<u>2-10</u>
Depth	<u>2</u>	cm	
Bare Ground	<u>50-70</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 (%)					
DOMINANT SPECIES					

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					30-70
DOMINANT SPECIES					<i>Halosarcia halorn</i> <i>Disphyma clav</i> <i>Frankenia</i>

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	10-30			
DOMINANT SPECIES	<i>Paraphlois incuna</i>	<i>Hydrocotyle</i> <i>Isotoma scap</i>			

4. VEGETATION CONDITION

Comments

excellent

7 2 x 7 0

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

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

Column 1 plant name

Record on Sheet

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

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
MALLEES				GRASSES				SEDGES			
				<i>Paraphlois incurva</i>							
SHRUBS				HERBS							
<i>Halosarcia halocn synchr</i>				<i>Hydrocotyle hexaptera</i> (VSP)							
<i>Frankenia cinerea</i>				<i>Isotoma scapigera</i>							
<i>Disphyma clavell</i>				<i>Senecio glossanth</i>							
<i>Maireana oppositifolia</i> (VSP)				<i>Centrolepis cephaliformis</i>							
				<i>Calandrinia ? crumacea</i>							
				<i>Pseudognaph luteo-alb</i>							
				<i>Spergularia satina</i>							
				<i>Pteris fl. aff. vana (infert)</i>							
				<i>Brachyone ? erilis (sterile)</i>							

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Esperance SITE NUMBER ES 07
 DATE TRIP 11-10-2000 RECORDERS NG/GK/AW/W/M
 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.



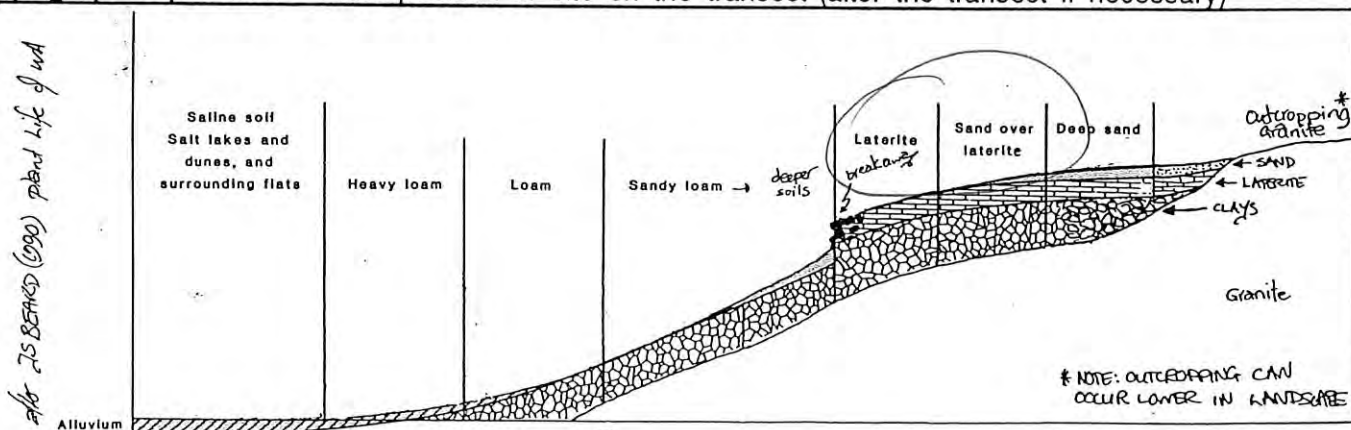
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____

Photograph Photographer's Name NG Photo No 07

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	<u>lateritic sandy clay</u>							Colour	<u>brown</u>			
Exposed rock	type _____							% surface	_____			
Sub-surface Soil	<u>lateritic clay</u>							Colour	_____			
Rock	type <u>granite</u>							depth to rock	<u>> 1m</u>			
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>twigs, lvs</u>			% cover	<u>30</u>	<u>70</u>	Bare Ground	<u>30</u>	%cover			
Depth	<u>2-5 cm</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. tetraapt
					11 tetraclont
					11 angulosa

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		10-30			10-30
DOMINANT SPECIES		Allocas rimp			Borckea
		Caloth. quad			Verticordia
		Petrophile			

GRASSES		HERBS		SEDGES	
	over 0.5m		under 0.5m		
LIFE FORM					
COVER CLASS (%)	2	2-10		10-30	
DOMINANT SPECIES	Amph. turb	Opoc. rubid		lepid. viscid	
		etc		Mesom. sty g	
				Lepidob	

4. VEGETATION CONDITION

Comments

excellent

20×20

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

name if required *Euca. ^{15-18 white} angulosa* *incrassata*
(Mallee 4m, grey bark, no stocky)

[illegible]

✓ *Petrophile fastigata*
✓ *Cryptantha nigra* (L.)

Cassia strobilata ✓
Melaleuca tuberculata "St. George" ✓ *Leucopogon? rotundifolius* ✓

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES 08
 DATE TRIP 11-10-2000 RECORDERS NG/GK/AW/WM
 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.



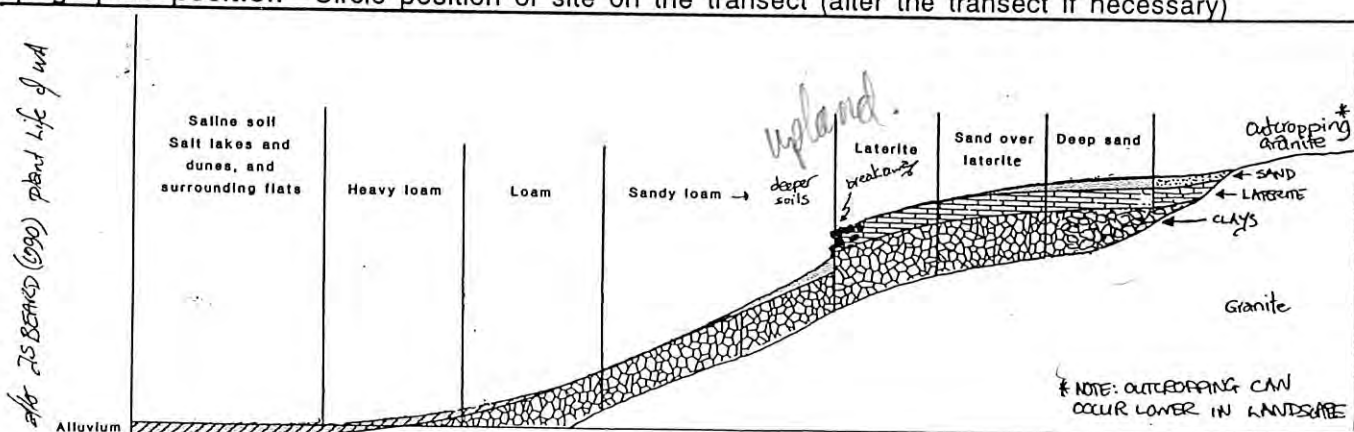
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____

Photograph Photographer's Name NG Photo No 06

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	loam - lateritic				Colour	brown						
Exposed rock	type				% surface							
Sub-surface Soil	laterite loam				Colour	brown						
Rock	type				granite	depth to rock	10 - 50cm					
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year		winter/spring			
Litter	1/5, twigs		% cover	70/90		Bare Ground	10		%cover			
	Depth		2-10		cm							

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

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM			 		
COVER CLASS (%)					30m
DOMINANT SPECIES					10m
					16-30
					<i>Euc. lehmannii</i>
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 				
COVER CLASS (%)	2	30-70			2m
DOMINANT SPECIES	<i>Hakea laurina</i>	<i>Beauf. schaueri</i> <i>Hakea pandan</i> <i>Petro</i> <i>Calothamnus</i>			1m
					2-10
					<i>Leucopogon</i> <i>lysia</i> <i>ciliat</i>
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM	 	 	 		 
COVER CLASS (%)	22	22			1m
DOMINANT SPECIES					30-70
					<i>lepidosp - visc</i>

4. VEGETATION CONDITION

Comments

nts
excellent

20 x 20

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

Record on Sheet

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

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES 09
 DATE TRIP 11-10-2000 RECORDERS NG/gk/AW/WM
 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

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

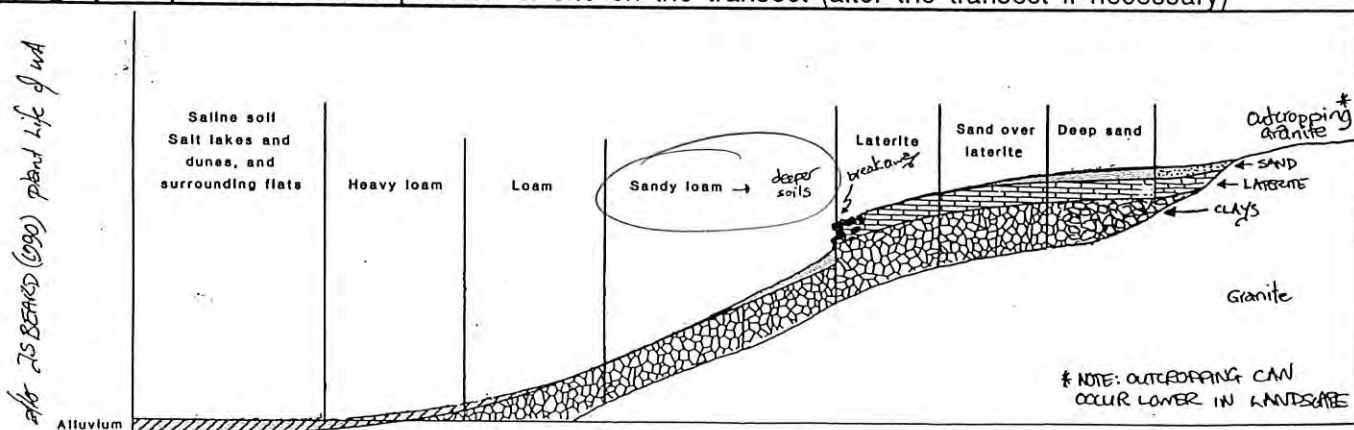
Photograph

Photographer's Name

NG

Photo No 05

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>white</u>
Exposed rock	type	% surface	
Sub-surface Soil	<u>clay</u>	Colour	
Rock	type	depth to rock	<u>> 1 m</u>
Drainage	<u>well</u> mod poor depth water	cm	Wet all year winter/spring
Litter	<u>lvs twigs</u>	% cover	<u>30/70</u>
Depth	<u>2-5</u>	cm	
Bare Ground	<u>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.

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. angulosa</i>
					"
					"
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		<i>Banks pilos</i>		<i>Rest. ? spalla</i>	<i>Phymatocarpus manuellii</i>
		<i>Hakea</i>		<i>Conosteph. roei</i>	
GRASSES					
	HERBS		SEDGES		under 0.5m
LIFE FORM					
COVER CLASS (%)	L2				2-10
DOMINANT SPECIES					<i>Restio</i>

4. VEGETATION CONDITION

Comments

excellent

10x10

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

name if required
✓ *Euc. forrestiana* (✓)

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Esperance SITE NUMBER ES 10
 DATE TRIP 11-10-2000 RECORDERS MG/GK/AW/WM
 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.

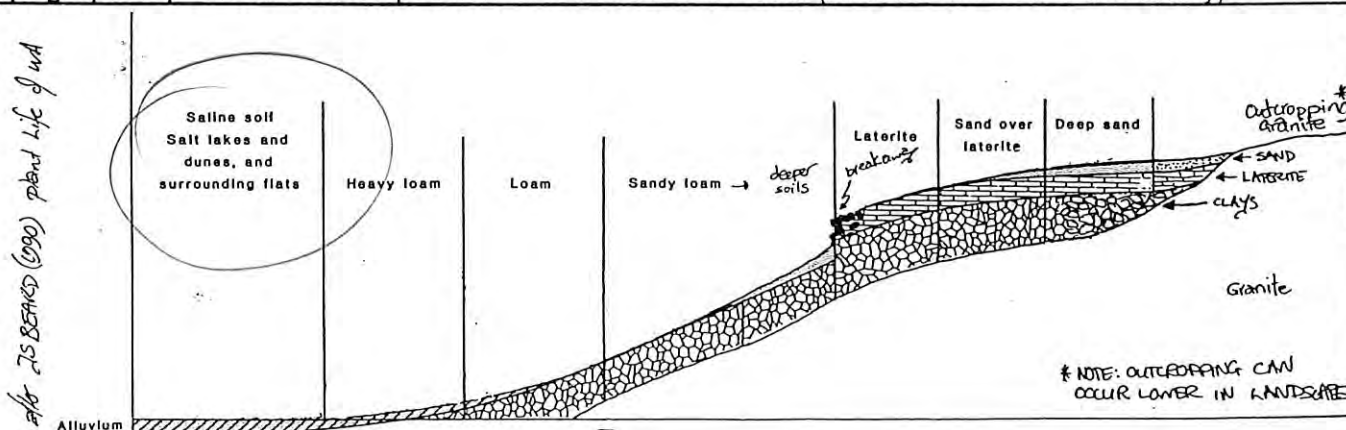


Road Location

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

Photograph Photographer's Name NG Photo No 4

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



2. SITE DATA Circle the correct response.

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

Surface Soil clay Colour brown/blade
 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

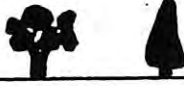
Litter logs twigs % cover 10-30 Bare Ground 50 %cover _____
 Depth 2-20 cm

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.

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

TREES				MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	20-30		2-10		
DOMINANT SPECIES	Dead Euc. occ		Mpl. cuticul (dead)		
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		Mpl. incana (dead)			Halosarcia
GRASSES		HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)	2-10	10-30			
DOMINANT SPECIES	Polypogon m	Cotula coron Spergula rubra			

4. VEGETATION CONDITION

Comments

2° saline
most trees, shrubs dead

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20x20

5. SPECIES PRESCENCE

SITE No ES10

Date 11-10-2000

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 if species flowering

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

No	Fl	ID	H
----	----	----	---

dead

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES 11
 DATE TRIP 11-10-2000 RECORDERS NG/GK/AW/WM
 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

Geographic Location Latitude

S Longitude

E Altitude

Reference Map

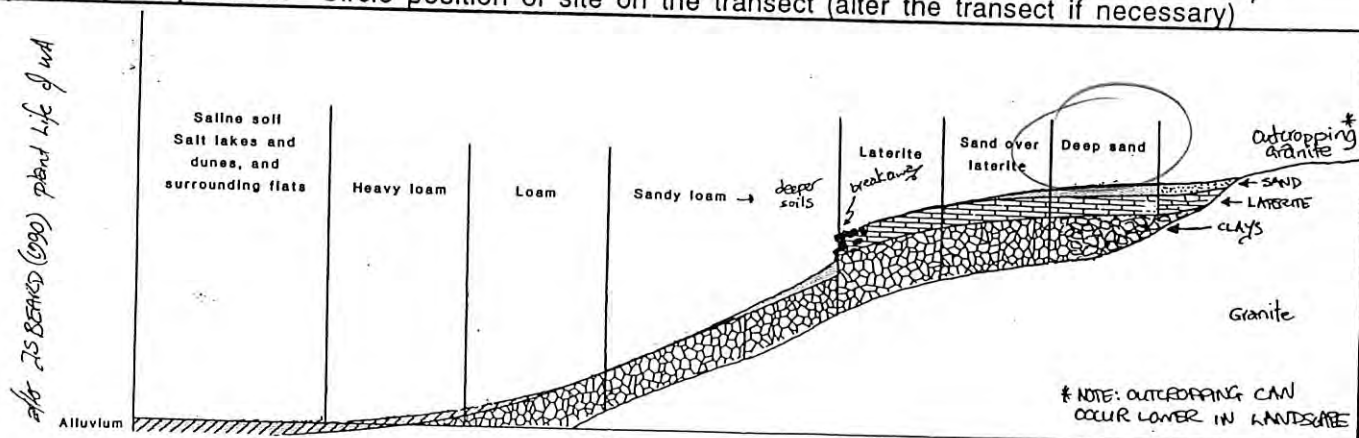
Photograph

Photographer's Name

NG

Photo No 2

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



2. SITE DATA Circle the correct response.

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

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

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

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

Litter lv & twigs % cover 30-70 Bare Ground 10/30 %cover
 Depth 2-5 cm

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

3. VEGETATION STRUCTURE AND COVER

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

Class	2-10%	10-30%	30 - 70%	over 70%
1. Canopy				
2. Understorey				
3. Groundcover				
4. Litter				
5. Bare ground				

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

Cover Class					
TREES			MALLEES		
over 15m		5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)			2-10		
DOMINANT SPECIES			Banks. specios		
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				Mel. pentag Agonis hyp Braunfartia	Lysinema ciliat Aden cuneat
GRASSES		HERBS	SEDGES	over 0.5m	
				under 0.5m	
LIFE FORM					
COVER CLASS (%)	L2	L2		30-70	
DOMINANT SPECIES				Mesom. Caulis d'roic Restio	

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20 x 20

5. SPECIES PRESCENCE

SITE No ES 11
Date 11-10-2000

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

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Banksia speciosa</i>				<i>Boronia spathul</i>				<i>Xanthorrhoea platyphylla</i>			
				<i>Melaleuca pentagona</i>				<i>Leucopogon</i>			
				<i>Lysinema ciliatum</i>				<i>Platykade</i>			
				<i>Melaleuca thymoides</i>				<i>Logania faste</i>			
				<i>Hibbertia</i>				<i>Stakea corymbosa</i>			
				<i>Cassipha</i>				<i>Gompholobium baxteri</i>			
				<i>Franklandia fucifolia</i> (VSP)				<i>Rinzia sp</i> (sterile)			
MALLEES				<i>Andersonia macrantha</i>				<i>Oligarhena micrantha</i>			
				GRASSES				<i>Jacksonia</i> (var. com / uside - sterile)			
				<i>Amphipogon</i> (sterile)				<i>Letrobea</i>			
				<i>Amphipogon</i> (sterile)				<i>Microcoris</i>			
				<i>Amphipogon</i> (sterile)				<i>Stackhousia scoparium</i> (VSP)			
SHRUBS				<i>Amphipogon</i> (sterile)				<i>Baeckea</i> (buds)			
<i>Lambertia inermis</i>								SEDGES			
<i>Banksia speciosa</i>								<i>Anarthria</i> : <i>scabra</i>			
<i>Banksia pulchella</i>								<i>Caustis dioica</i>			
<i>Banksia nutans</i> var <i>cernua</i>								<i>Tetraria capillaris</i>			
<i>Nuytsia floribunda</i>								<i>Mesomelaena stygia</i>			
<i>Isopogon polyceph</i>				HERBS				<i>Schoenus curvifolius</i> (VSP)			
<i>Adonis sp</i>				<i>Drosera menzies</i>				<i>Schoenus sp</i>			
<i>Adenanth cuneatus</i>				<i>Leporella fimb</i>				<i>Anarthria</i> <i>huuulis</i>			
<i>Allocasuarina ptyloides</i> (VSP)				<i>Patersonia rudis</i>				<i>Restio</i> <i>Lopidholan</i> <i>precis</i>			
<i>Calytrix decandra</i> (VSP)				<i>Homandra nigricans</i>				<i>HYPOLAENA II</i> (grey)			
<i>Beaufortia elegans</i>				<i>Conostylis brevicaule</i> (VSP)				<i>Cyathochaeta</i> <i>chudis</i>			
<i>Chorizema obtusifolium</i>				<i>Pyrochloa nigricans</i>				<i>Hardyia spathulata</i>			
<i>Stylidium</i> ? <i>simplex</i> <i>taula</i>								<i>Hypochaeris fastigata</i> (VSP)			
<i>Darwinia vestita</i>				<i>Maxmannia vamosa dellexa</i>				<i>Hieracium Ruterifive</i>			
<i>Dampiera</i> ? <i>juncus</i> <i>angulata</i> <i>angulata</i>				<i>Stylidium pilosum</i> (VSP)				<i>Calothamnus gracile</i>			
<i>Melaleuca strigata</i>				<i>Stylidium repens</i>							
<i>Hibbertia graciliflora</i>				<i>Valeria trinervis</i>							
<i>Amperea</i> = <i>Monotaxis</i> <i>paxii</i> (VSP)											
<i>Leucopogon</i> sp "ES 11" (VSP)											
<i>Astarchea</i>											

↳ D? *foliacea*.

Westringia ? *rigida* (sterile)

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES 12
 DATE TRIP 11-10-2000 RECORDERS NG/GK/AW/WM
 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.

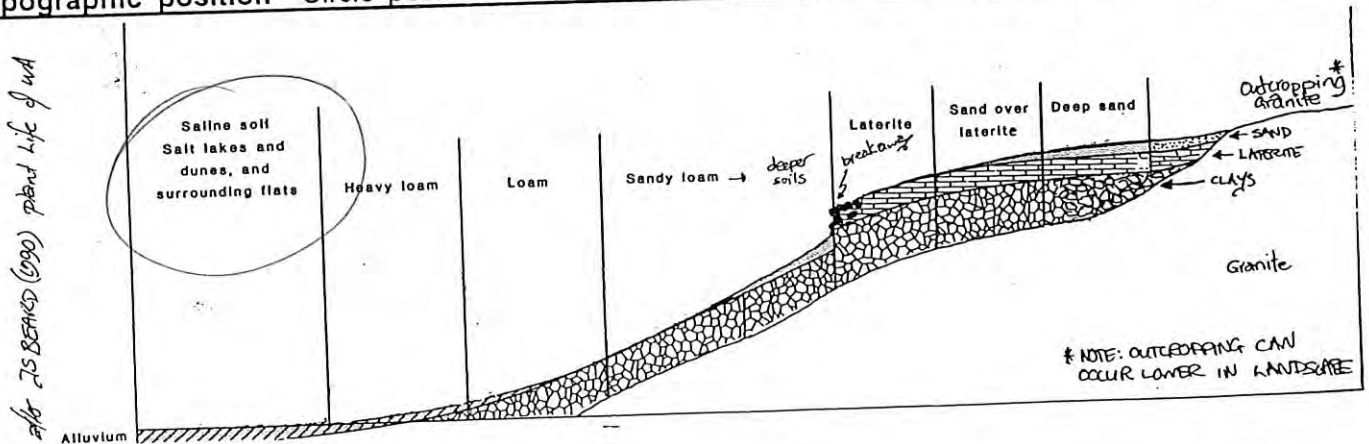


Road Location

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

Photograph Photographer's Name NG Photo No 3

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



2. SITE DATA Circle the correct response.

Slope	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW
Surface Soil	<u>black</u>			Colour	<u>peaty sand</u>							
Exposed rock	type			% surface								
Sub-surface Soil	<u>sandy clay</u>			Colour	<u>white</u>							
Rock	type			depth to rock								
Drainage	well	mod	<u>poor</u>	depth water	cm	<u>Wet</u>	all year	<u>winter/spring</u>				
Litter	<u>twigs</u>			% cover	<u>20-30</u>			Bare Ground	%cover			
Depth	<u>2-5</u>			cm				<u>10</u>				

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					 30m 10m
COVER CLASS (%)			2-10		
DOMINANT SPECIES			Mpl. cuticul		

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

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM				 1m
COVER CLASS (%)		<2		>70-
DOMINANT SPECIES		Villarsia		Baumea rubig

4. VEGETATION CONDITION

Comments

excellent

$$20 \times 20$$
[illegible]

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]

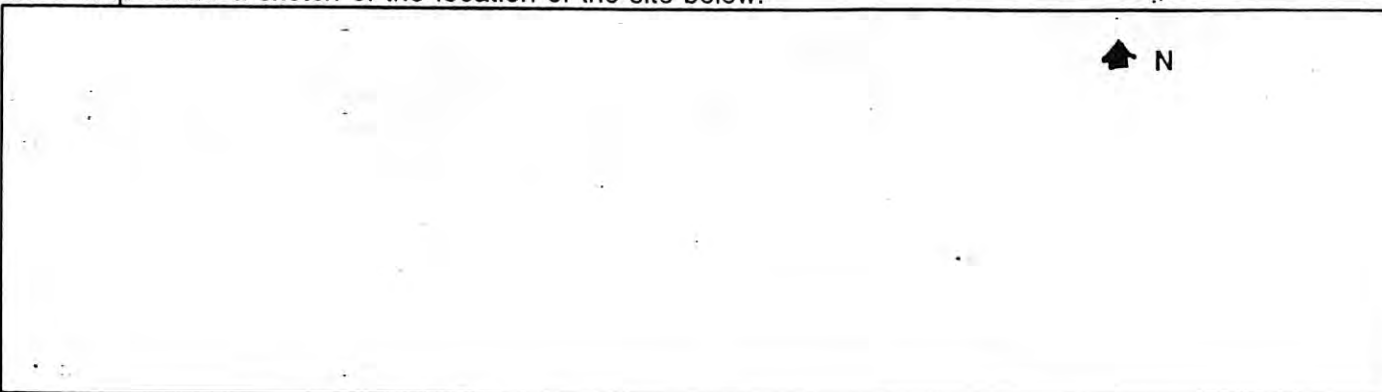
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES 13
 DATE TRIP 11-10-2000 RECORDERS NG/GK/AW/WM
 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.

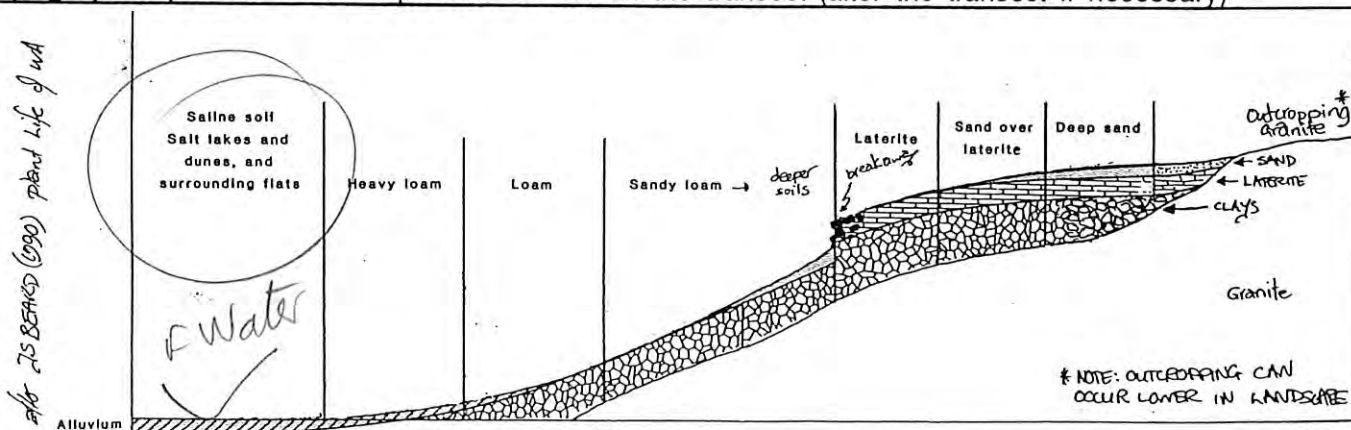


Road Location

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

Photograph Photographer's Name NG Photo No 01

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>black</u>				Colour	<u>sandy clay</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>logs, twigs, lvs</u>				% cover	<u>>90</u>				Bare Ground	<u><10</u>	%cover
	Depth <u>2-20</u> cm											

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			MALEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		10-30			
DOMINANT SPECIES		Euc. Occid			

	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30				
DOMINANT SPECIES	Melaleuca incana				

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	<2	10-30	10-30		<2
DOMINANT SPECIES		Villarsia gonocarpus	Baumea arctic		

4. VEGETATION CONDITION

Comments

excellent

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. occid

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

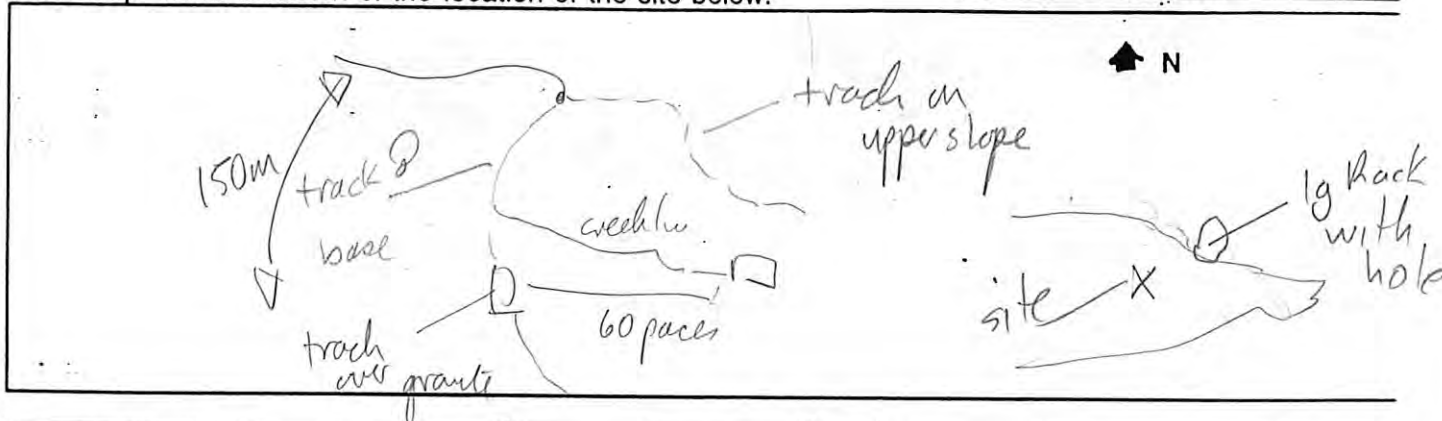
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Esperance SITE NUMBER ES/4
 DATE TRIP 11-10-2000 RECORDERS NG/gik/AN/WM
 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.

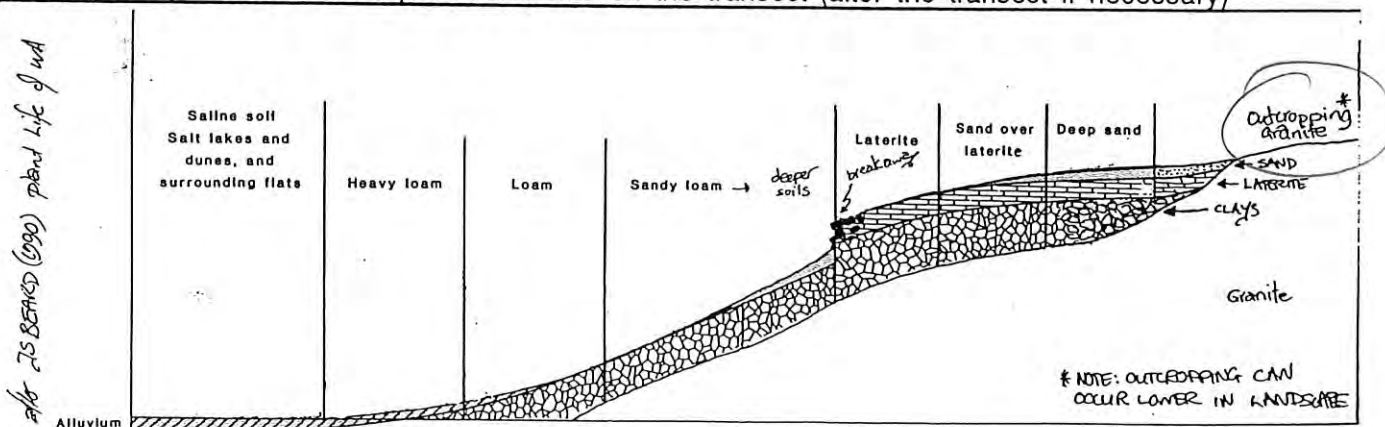


Road Location Rd. Mt. Ridley

Geographic Location Latitude 33 17. 32.3 S Longitude 122 07 08.7 E Altitude 2.0
 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	flat	<u>gentle</u>	steep	Aspect	N	NE	E	SE	S	SW	<u>W</u>	NW
Surface Soil	type <u>grubly loam</u>				Colour <u>brown</u>							
Exposed rock	type _____ % surface _____											
Sub-surface Soil	type <u>granite</u>				Colour _____							
Rock	depth to rock <u>10 cm</u>											
Drainage	<u>well</u>	mod	poor	depth water _____ cm	Wet all year		winter/spring					
Litter	<u>1/5</u>	Depth <u>2</u> cm		% cover <u>10/30</u>	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.

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

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

SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		2-10			
DOMINANT SPECIES		Thrypt. aust Hakea clav			

GRASSES		HERBS		SEDGES	
	over 0.5m		over 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	30-70			
DOMINANT SPECIES	Eragrostis diels	Borhya nitida			

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20720

5. SPECIES PRESCENCE

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

SITE No ES 14
Date 11-10-2000

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
								Wombassa ? discal			
								Thelymitra flexuosa			
								Proserpyllum macrostachya			
								Trachymene ornata			
								Bulbine semibarbata			
								Goodenia bicardiana			
								Chamaecilla corymb			
								Hypochaeris glabra			
								Brachycome			
								Centaurea spicata			
								Podolepis lepperi			
								Blennospora drum			
								Thysanotus patersonii			
								SEDGES			
								Drosera			
								Nahlenberg gracit pressii			
								Micranthus media			
								Gonocarpus nodul			
								Petrophagia prolif			
								Calandrinia eremata (VSP)			
								Crassula colorata var. alba			
								Borya nitida			
								Waltzia acumin			
								Mossinia anthem			
								Rhodanthe spicatum			
								Anagallis arvensis			
								Velleia cynopet			
								Millotia leucophylla major			
								Phyllanthus paradoxus sacul			
								Rhodanthe larvis			

ADD Halen Lawton
from unweath.

Platsage effusa
Calandrinia eremata

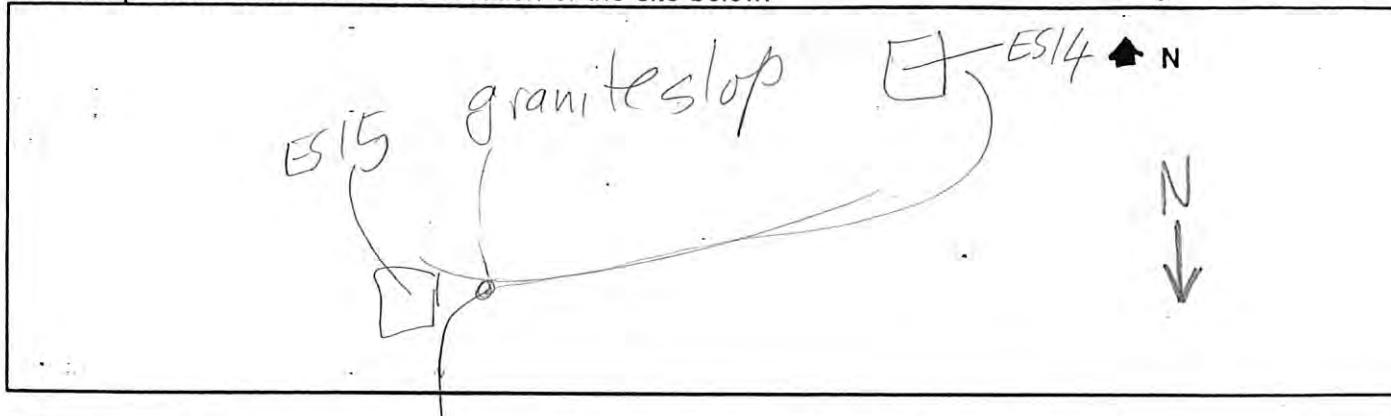
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Esperance SITE NUMBER ES 15
 DATE TRIP 11-10-2000 RECORDERS NG/GK/AW/WM
 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

Mt. RIDLEY

Geographic Location Latitude 33 17' 32.1 S Longitude 122 07' 19.3 E Altitude 203

Reference Map

Photograph

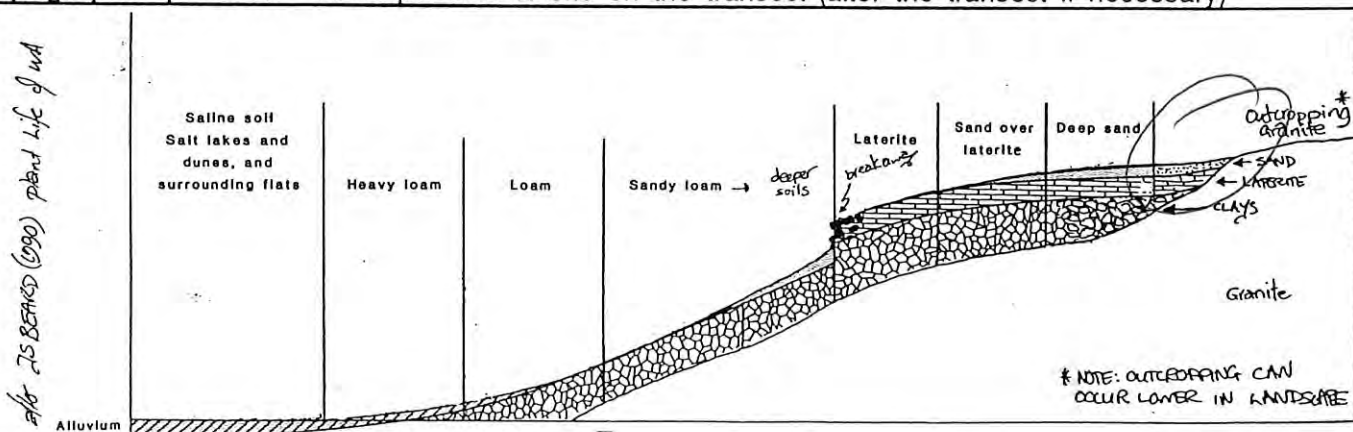
Photographer's Name

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 brown
 Exposed rock type _____ % surface _____

Sub-surface Soil sandy clay Colour _____
 Rock type _____ depth to rock 20-30cm

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

Litter twigs % cover 790 Bare Ground 0 %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			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		> 70			
DOMINANT SPECIES		Alloc. hueg			

SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					2-10
DOMINANT SPECIES					Dodonaea

GRASSES		HERBS		SEDGES	
	over 0.5m		under 0.5m		
LIFE FORM					
COVER CLASS (%)	2-10				
DOMINANT SPECIES	Spartochloa scir				

4. VEGETATION CONDITION

Comments

excellent

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

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

Same

[illegible]

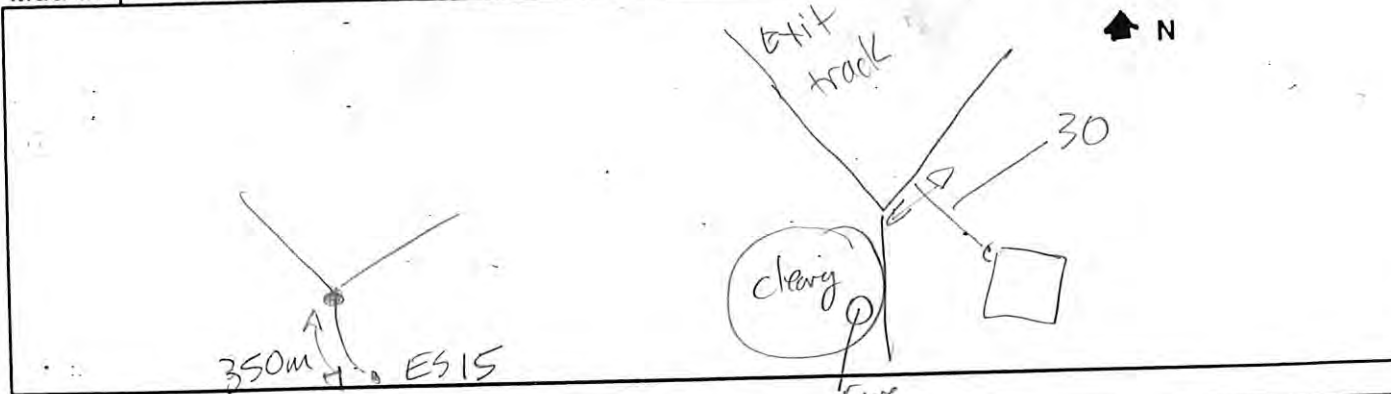
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Esperance SITE NUMBER ES 16
 DATE TRIP 11-10-2000 RECORDERS NG/GK/AW/WAM
 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

Mt. Ridley

Geographic Location Latitude 33 17.25.8 S Longitude 122 07 31.2 E Altitude

Reference Map

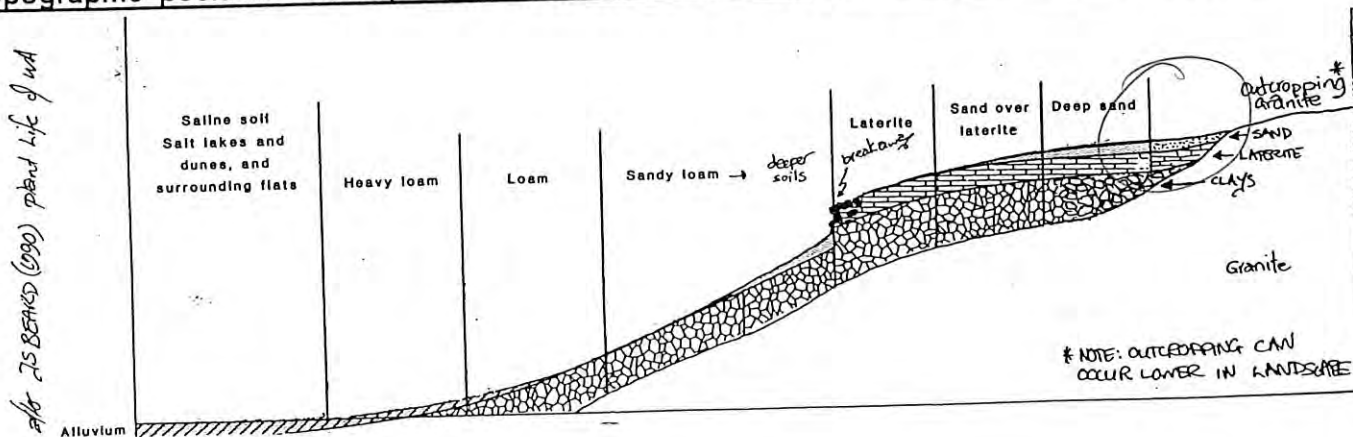
Photograph

Photographer's Name

NG GK

Photo No 29

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	<u>grey</u>
Exposed rock	type	% surface	
Sub-surface Soil	<u>clay</u>	Colour	
Rock	<u>granite</u>	depth to rock	<u>71m</u>
Drainage	<u>well</u> mod poor depth water	cm	Wet all year winter/spring
Litter	<u>logs, twigs, lvs</u>	% cover	<u>30/70</u>
Depth	<u>12-30 cm</u>	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.

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. occid				
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10				10-30
DOMINANT SPECIES	Acacia				Pultenaea
	Olearia axill				Dodonaea diva
GRASSES		HERBS	SEDGES	over 0.5m	
				under 0.5m	
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

Very good - excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	ES 16
Date	11-10-2000

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

Record on Sheet

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

[illegible]

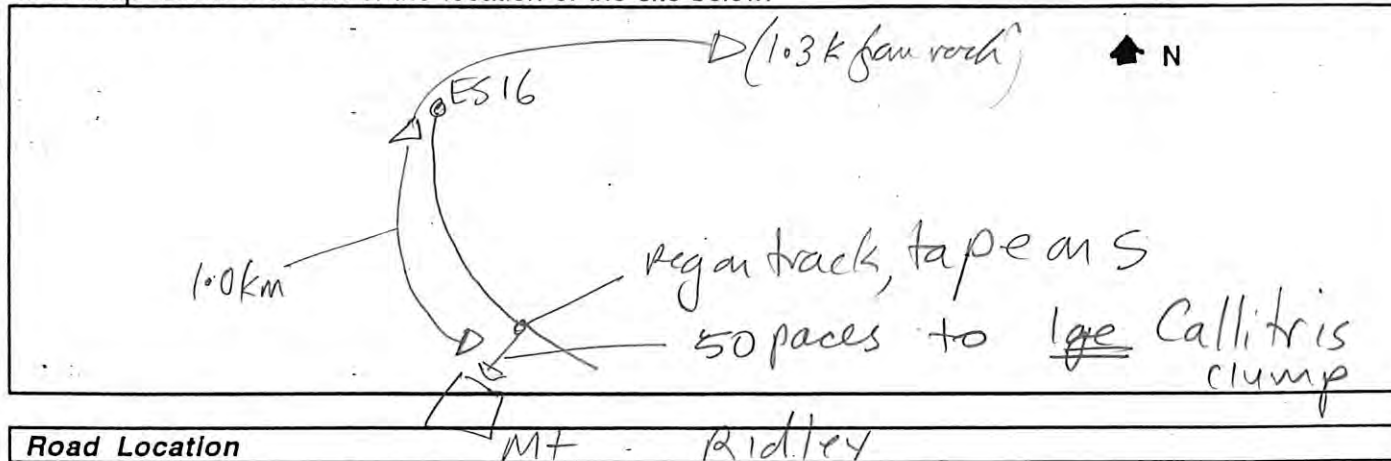
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES 17
DATE TRIP 11-10-2000 RECORDERS NG/GK/AW/WM
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.

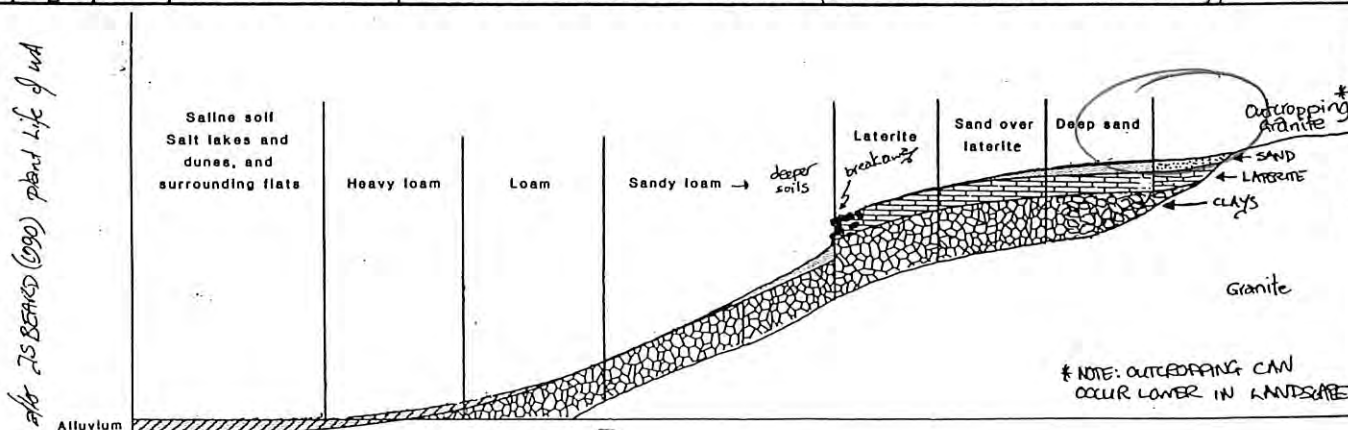


Road Location

Geographic Location Latitude 81 17 07.6 S Longitude 122 07 08.3 E Altitude 22.9
Reference Map 33

Photograph	Photographer's Name	<i>ENG</i>	Photo No	11
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Topographic position Circle position of site on the transect (alter the transect if necessary)



2. SITE DATA Circle the correct response.

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

Surface Soil	sand	Colour	yellow
Exposed rock	type	% surface	

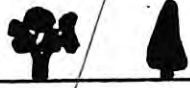
Sub-surface Soil	gravelly sand	Colour	yellow
Rock	type	granite	depth to rock > 1m

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

Litter twigs, VS	% cover	10/30	Bare Ground	%cover
Depth 2-10	cm		50	

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	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30				10-30
DOMINANT SPECIES	<i>Callitris verruc</i> <i>Mel. uncinat</i> <i>Allocas</i>				<i>Verticord roei</i> <i>Baeckea crisp</i> <i>Acacia leptosp</i>
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					10-30
DOMINANT SPECIES					<i>Lepidosperma</i>

4. VEGETATION CONDITION

Comments

excellent

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

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
MALLEES				GRASSES				SEDGES			
				<i>Neurachne alopec</i> <i>Amphizoa strictula</i>							
SHRUBS				HERBS							
<i>Callitris verrucosa</i> <i>Melaleuca uncinata</i> "sp. of the fruit" <i>Verticordia rostrata</i> (sp) <i>Baeckea crispifolia</i> <i>crassifolia</i> var <i>icosandra</i> . <i>Acacia leptosperma</i> <i>pinguifolia</i> ssp <i>teretifolia</i> . <i>Platysace effusa</i> <i>Baeckea ciliata</i> <i>Leucopogon chinensis</i> <i>Calytrix leschenaultii</i> <i>Allocas campestris</i> <i>Hibbertia exalt</i> <i>Prostanthera gnylliana</i> <i>Astratea ambigua</i> (glob) <i>Dodonaea</i> <i>Gastrolobium</i> <i>Comespermia ciliatum</i> <i>Bracteantha Actinocoma</i> <i>aphana</i> (var) <i>Stackhousia monoq</i> <i>Cryptandra myricaefolia</i>				<i>Lobelia rhomb</i> <i>Drosera macrantha</i> <i>Elythranthera brunonis</i> <i>Laxmannia palae</i> <i>Opircularia rubiginosa</i> <i>Levenhookia stip pusilla</i> <i>Blennosp drumm</i>				<i>Lepidobolus preascans</i> <i>Lepidosp</i> <i>viscid</i> <i>drum</i> <i>II</i> ssp <i>drum</i> <i>Stahnia ancistrolifera</i> <i>Schoenus brevicaulus</i> (small) <i>(and)</i> <i>Schoenus sp. racemosus</i> <i>Schoenus brevicaulus</i> (leafy)			

✓ *Helicoverpa grandifera* var. *orientalis*

Cyanide series

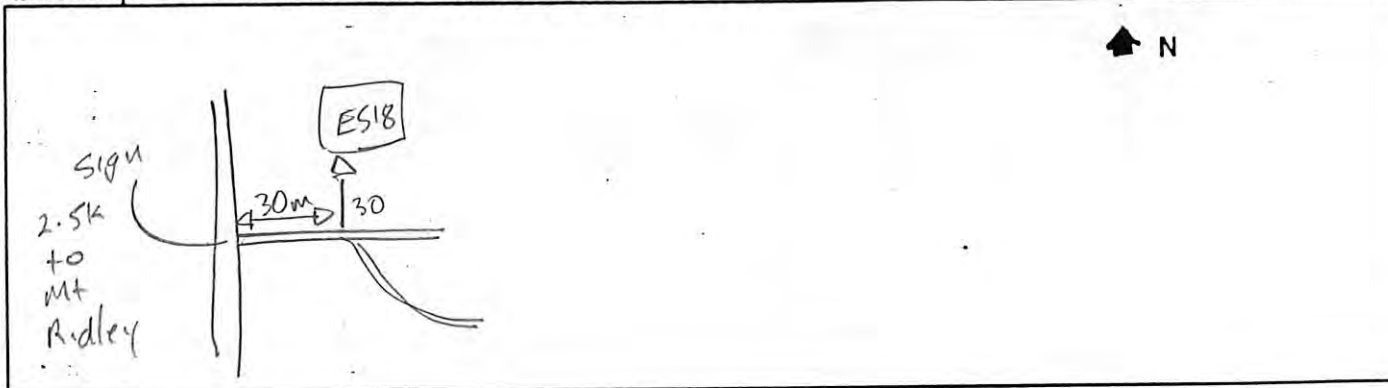
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Esprance SITE NUMBER 18
 DATE TRIP 11-10-2000 RECORDERS NG/gk/aw/wm
 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.

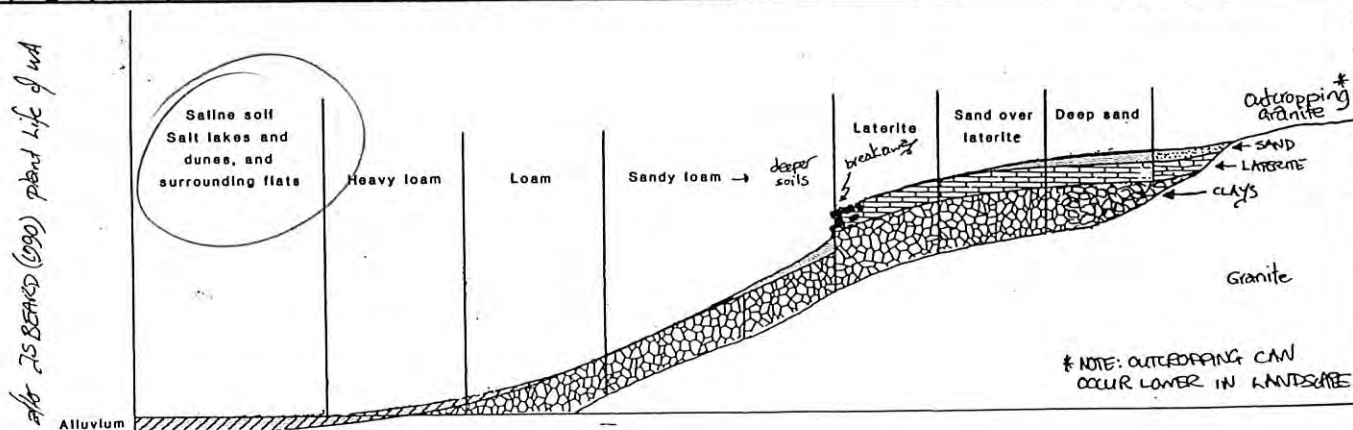


Road Location

Geographic Location Latitude 33 16 42.1 S Longitude 122 06 35.1 E Altitude 209
 Reference Map _____

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	<u>flat</u> gentle steep	Aspect	N NE E SE S SW W NW
Surface Soil	<u>clay</u>	Colour	<u>brown</u>
Exposed rock	type _____ % surface _____		
Sub-surface Soil	<u>clay</u>	Colour	_____
Rock	type _____ depth to rock <u>>1m</u>		
Drainage	<u>well</u> <u>mod</u> poor depth water _____ cm	Wet	all year winter/spring
Litter	<u>NG twigs</u> % cover <u>30/70</u>	Bare Ground	<u>30</u> %cover
	Depth <u>2-10</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 (%)				~~10-30~~	10-30
DOMINANT SPECIES					Euc. flockt "
	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10			30-70	
DOMINANT SPECIES	Grevill plusig			Melaleuca " Davies acanth	
	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

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

name if required *tumida*

Euc. cf. eremophila
(in!) peel grey bk
in lug strips dull green

RBS (cont.)	No	FI	ID

lvs

[illegible]

✓✓ Organic stereo flycatcher (JSP)
✓✓ Accia partly body 11/10/00

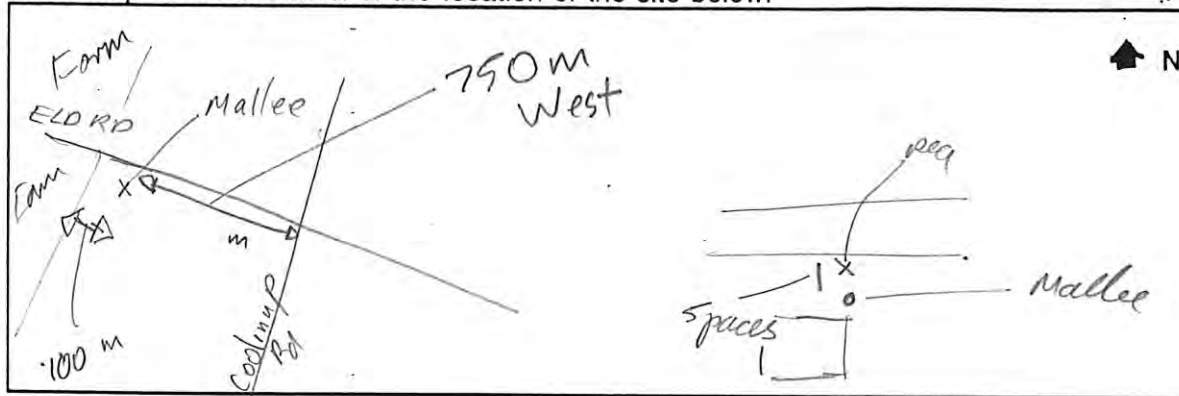
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES19
 DATE TRIP 14-10-2000 RECORDERS NG/GK/AW/WM
 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.



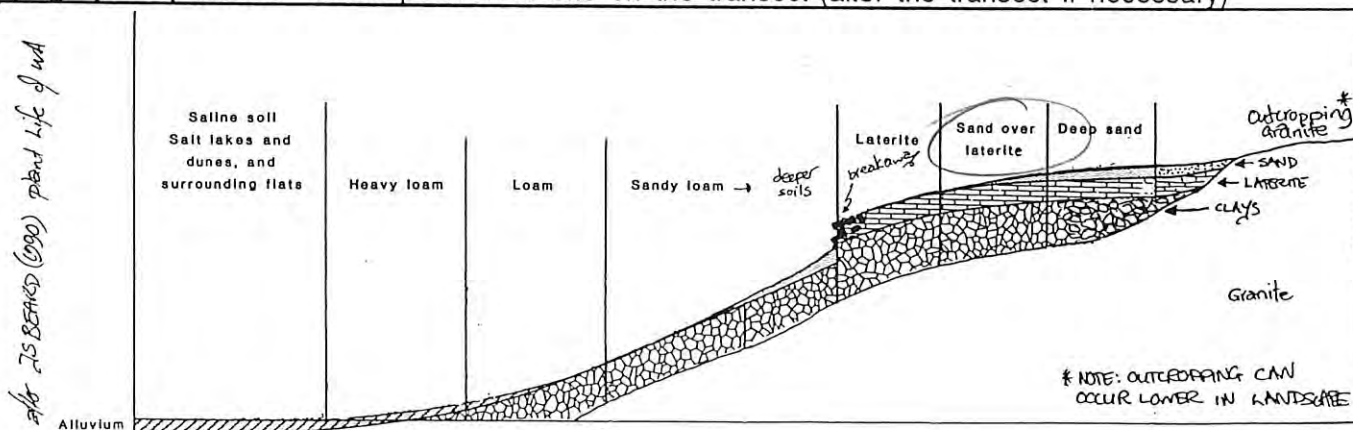
Road Location

Geographic Location Latitude 33 37 02.3 S Longitude 122 24 24.5 E Altitude _____

Reference Map _____

Photograph Photographer's Name NG Photo No 37

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



2. SITE DATA Circle the correct response.

Slope	<u>flat</u>	gentle	steep	Aspect	N	NE	E	SE	S	SW	W	NW
Surface Soil	<u>sand</u>				Colour	<u>white</u>						
Exposed rock	type				% surface							
Sub-surface Soil	<u>lateritic sand</u>				Colour	<u>white</u>						
Rock	type <u>laterite</u>				depth to rock	<u>15cm</u>						
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>10g twigs</u>	% cover	<u>>70</u>		Bare Ground	<u>0</u>	%cover					
Depth	<u>2</u>	cm										

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

3. VEGETATION STRUCTURE AND COVER

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

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

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

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2		>70		
DOMINANT SPECIES	<i>Hakea obliqua</i>		<i>Banksia nulaus</i> <i>Dry. armata</i> <i>Hakea denticul</i> <i>Beaufortia</i>		

GRASSES		HERBS		SEDGES	
	over 0.5m			over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	<2	<2			10-30
DOMINANT SPECIES					<i>Anarthria scabra</i>

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20220

5. SPECIES PRESCENCE

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

SITE No ES 19
Date 14-10-2000

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
				✓ <i>Acacia baileyana</i>				✓ <i>Leucopogon 2 fasciculatus</i>			
				✓ <i>Leucopogon conosteph</i>				✓ <i>Isopogon polycephalus</i>			
				✓ <i>Androschima macrantha</i> (vsp)				✓ <i>Dryandra amata</i> (vsp)			
				✓ <i>Stirlingia simplex</i> (tomiflora)				✓ <i>Hakea corymbosa</i>			
				✓ <i>Melaleuca striata</i>				✓ <i>Aotus genistoides</i>			
				✓ <i>Banksia pulchella</i>				✓ <i>Banksia repens</i>			
				✓ <i>Chamaeleucium megalopet</i>				✓ <i>" blechnifolia</i>			
				✓ <i>Stachystemon brachyp</i>				✓ <i>Agonis spectabilis</i>			
MALLEES				GRASSES				✓ <i>Gymnophol confertum</i>			
✓ <i>Euc. tetragona</i>				✓ <i>Amphipogon turbinat</i>				✓ <i>Petrophile squarosa</i>			
✓ <i>Euc. Scyocalyx</i>				✓ <i>" (dehitis)</i>				✓ <i>Cassytha glabella</i>			
				✓ <i>" (aerensis) (vsp)</i>				✓ <i>Baronia albiflora</i>			
SHRUBS				✓ <i>Dampiera angulata angulata</i>				✓ <i>Perossonia scabra</i>			
✓ <i>Dryandra amata cuneata</i>								SEDGES			
✓ <i>Hakea trifurcata</i>								✓ <i>Anarthria scabra</i> (vsp)			
✓ <i>Hakea denticulata</i>								✓ <i>Caustis dioica</i>			
✓ <i>Lysinema ciliatum</i>								✓ <i>Anarthria laevis</i>			
✓ <i>Calothamnus gracilis</i> (vsp)				HERBS				✓ <i>Schoenus subbarbatus</i>			
✓ <i>Darwinia vestita</i>				✓ <i>Patersonia rudis</i>				✓ <i>Cyathochaeta claud</i> (vsp)			
✓ <i>Banksia nutans</i>				✓ <i>Lomandra nigricans</i>				✓ <i>Ruellia Lopidofes</i> (vsp)			
✓ <i>Hakea pandanicearpa</i>								✓ <i>Daviesia teretifolia</i>			
✓ <i>" obliqua</i> (vsp)				✓ <i>variant II (log pedicels) vsp</i>				✓ <i>Actinotriche</i>			
✓ <i>Beaufortia lempetifolia</i> (vsp)								✓ <i>Trichostema</i>			
✓ <i>Hibbertia gracilioris</i> (vsp)								✓ <i>Chordifera spicelatus</i> (vsp)			
✓ <i>"</i>											
✓ <i>Melaleuca aff. sp.</i> (vsp)								✓ <i>Melaleuca thymoides</i>			
✓ <i>Calytrix decandra</i> (vsp)											
✓ <i>Melaleuca pentagona</i>											
✓ <i>Allocasuarina thuyoides</i> (vsp)											
✓ <i>Baeckea polyandra</i>											
✓ <i>Astroloma pectum</i>											
✓ <i>Petrophile media</i>											
✓ <i>Banksia preissii</i>											

✓ *Banksia foliolaris* (vsp)Adding - *Mel. tuberculata* var. *macrophylla* (BTZ ident)

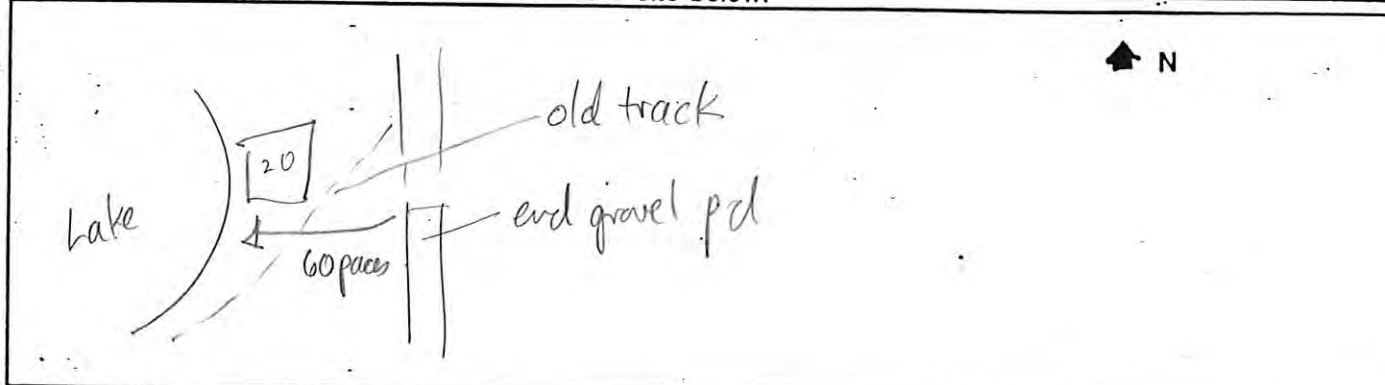
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES20
 DATE TRIP 14-10-2000 RECORDERS NG/GK/AW/WM
 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.

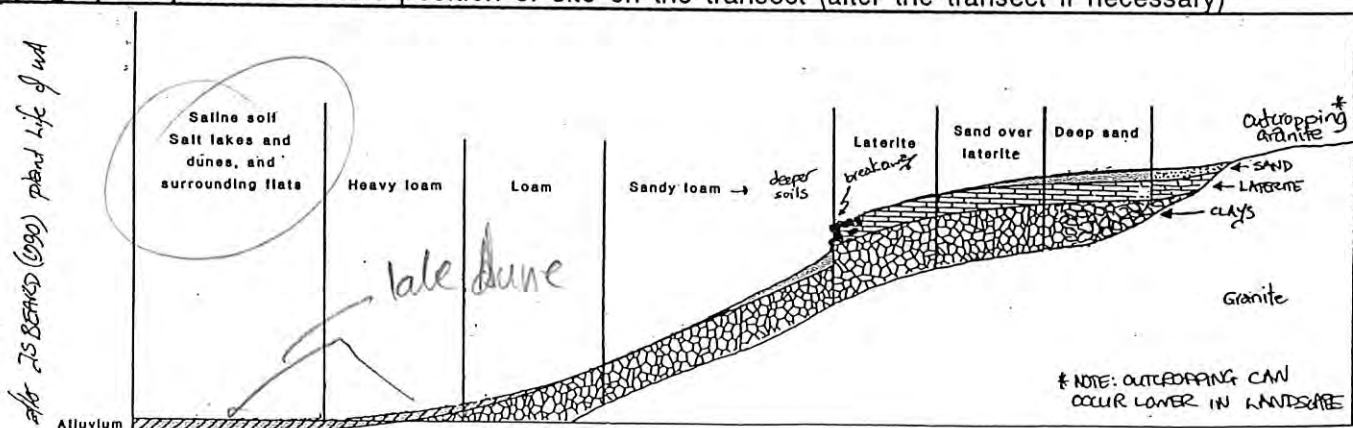


Road Location

Geographic Location Latitude 33 26.13.1 S Longitude 122 23 35.2 E Altitude 2.5
 Reference Map _____

Photograph Photographer's Name NG Photo No I

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



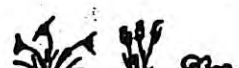
2. SITE DATA Circle the correct response.

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	E	SE	S	<u>SW</u>	W	NW
Surface Soil	type <u>sand</u>				Colour <u>orange</u>							
Exposed rock	type _____				% surface _____							
Sub-surface Soil	type <u>sand</u>				Colour <u>orange</u>							
Rock	type _____				depth to rock <u>>1m</u>							
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>logs, twigs, lvs</u>				% cover	<u>70/90</u>			Bare Ground	<u>10</u>		
	Depth <u>2-20</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 (%)	10-30				
DOMINANT SPECIES	Euc.				
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30	10-30			2-10
DOMINANT SPECIES	Banksia media Hakea multil Sant. murray	Darwin druidium Melaleuca			Conostaphyllum Microtylia Boronia
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	< 2	< 2			2
DOMINANT SPECIES					Lepidosperma

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

Euc. angulos
incrassata

USP

[illegible]

Note Brady Cove + Conostephin both occur at this site

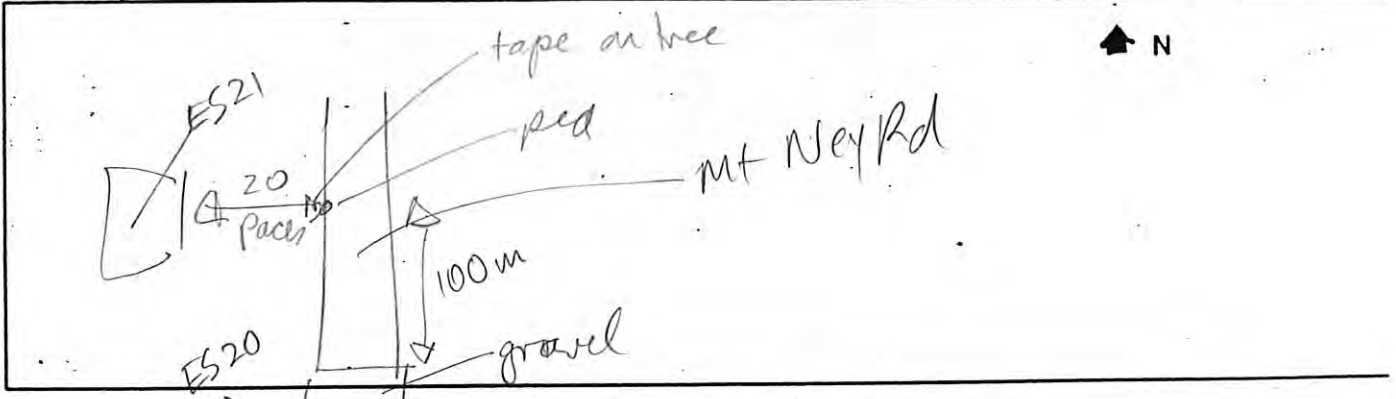
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES21
 DATE TRIP 14-10-2000 RECORDERS NG/GK/AW/WM
 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.

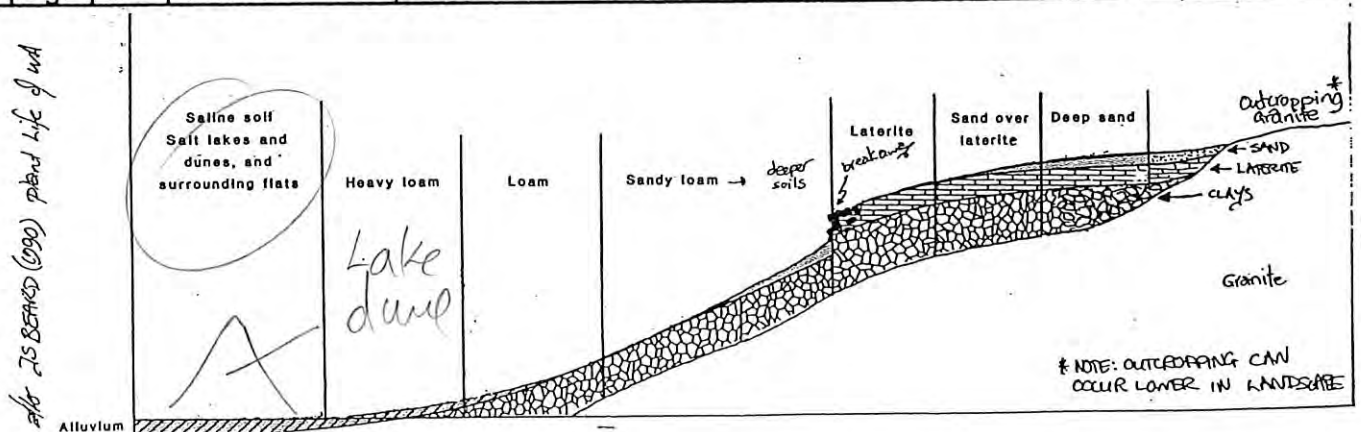


Road Location Mt Ney Rd

Geographic Location Latitude 33 26.11.0 S Longitude 122 23 39 E Altitude 4.5
 Reference Map _____

Photograph _____ Photographer's Name NG Photo No 2

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



2. SITE DATA Circle the correct response.

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	E	SE	S	<u>SW</u>	W	NW
Surface Soil	type <u>sand</u>						Colour <u>orange</u>					
Exposed rock	type _____						% surface _____					
Sub-surface Soil	type <u>sand</u>						Colour <u>orange</u>					
Rock	type _____						depth to rock _____					
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>lvs, logs, twigs</u>		% cover		<u>790</u>		Bare Ground		<u>410</u>		% cover	
	Depth <u>20-20</u>		cm									

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						
DOMINANT SPECIES	Euc.						
SHRUBS					SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM						2m	1m
COVER CLASS (%)	30-70		10-30				
DOMINANT SPECIES	Banks. media ~~Melaleuca~~ Phymatocarpus marshallii		Baeckea Beyeria				
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM						1m	
COVER CLASS (%)	<2	<2			2-10		
DOMINANT SPECIES					Lepidosperma		

4. VEGETATION CONDITION

Comments

excellent
v. long unburnt

X Tree 15/20m, smooth-lined grey bark peeling in strips to 5m showing smooth grey above, vs dull green.

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

20x20

5. SPECIES PRESCENCE

SITE No ES 21

Date 14-10-2000

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

name if required in context
 "Euc. angulosa"
 Kessellin (VSP)

[illegible]

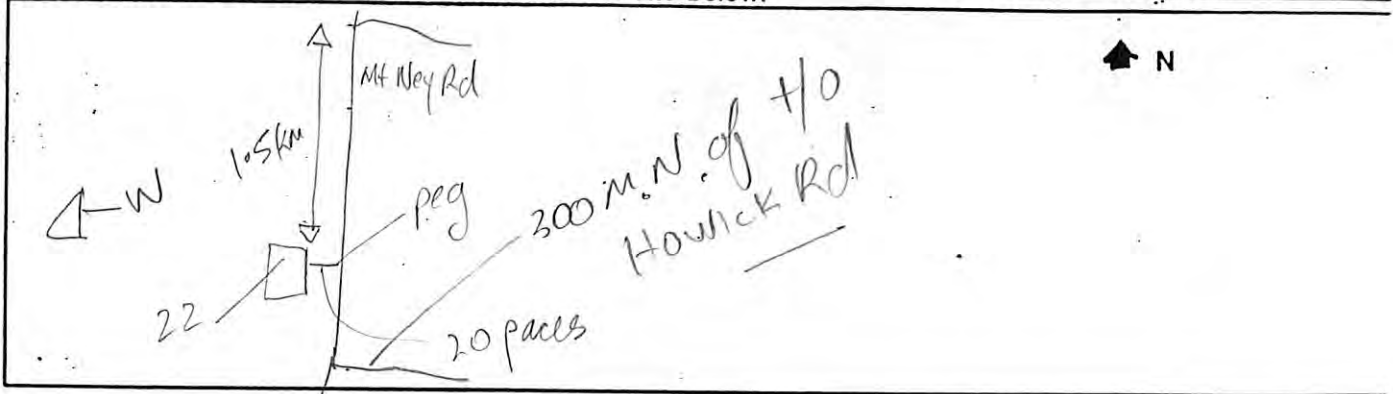
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES22
 DATE TRIP 14-10-2000 RECORDERS NG/GK/AW/WM
 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.

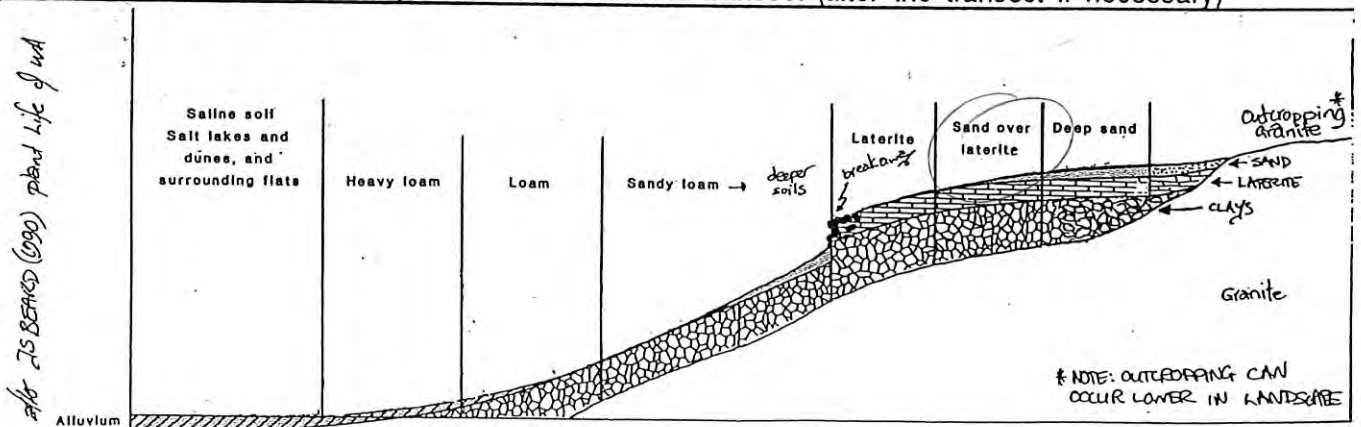


Road Location

Geographic Location Latitude 33 23. 51 S Longitude 122 26 04 E Altitude 202.4
 Reference Map _____

Photograph Photographer's Name NG Photo No 3

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



2. SITE DATA Circle the correct response.

Slope flat gentle steep Aspect N NE E SE S SW W NW
 Surface Soil sandy clay Colour brown
 Exposed rock type _____ % surface _____
 Sub-surface Soil clay Colour _____
 Rock type laterite depth to rock _____
 Drainage well mod poor depth water cm Wet all year winter/spring
 Litter twig, lvs % cover 30/70 Bare Ground 50 % cover
 Depth 2-5 cm

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					Euc.

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 				
COVER CLASS (%)		36-70			10-30
DOMINANT SPECIES		Alloc. camp Mel. uncin Coloth. quadr			Darwinia sp Verticard roel

	GRASSES	HERBS	SEDGES over 0.5m	under 0.5m
LIFE FORM	 	  	  	  
COVER CLASS (%)	22	22		
DOMINANT SPECIES				Lepidosperma

4. VEGETATION CONDITION

Comments

excellent

20×20

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

[illegible]

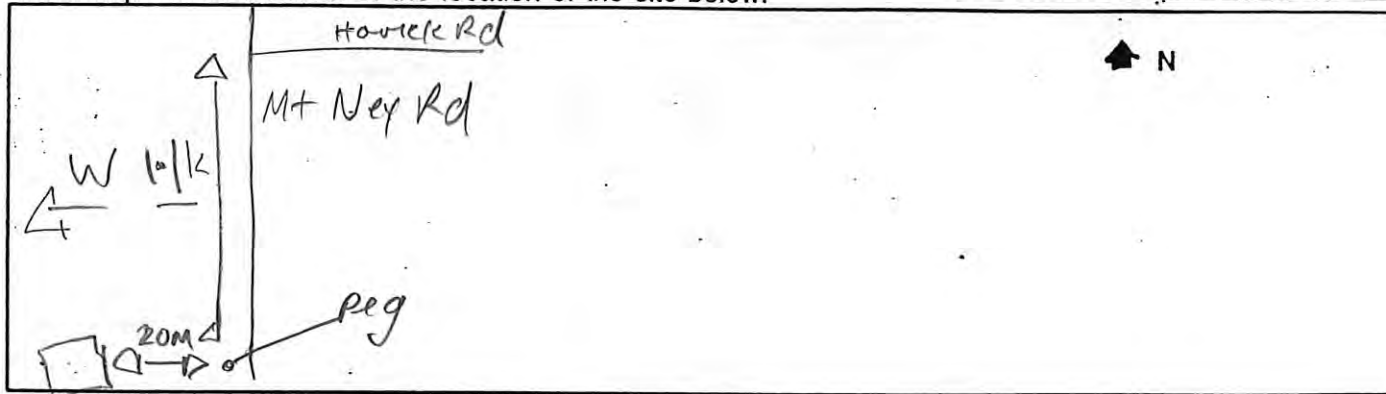
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES23
 DATE TRIP 14-10-2000 RECORDERS NG/GK/AW/WM
 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.



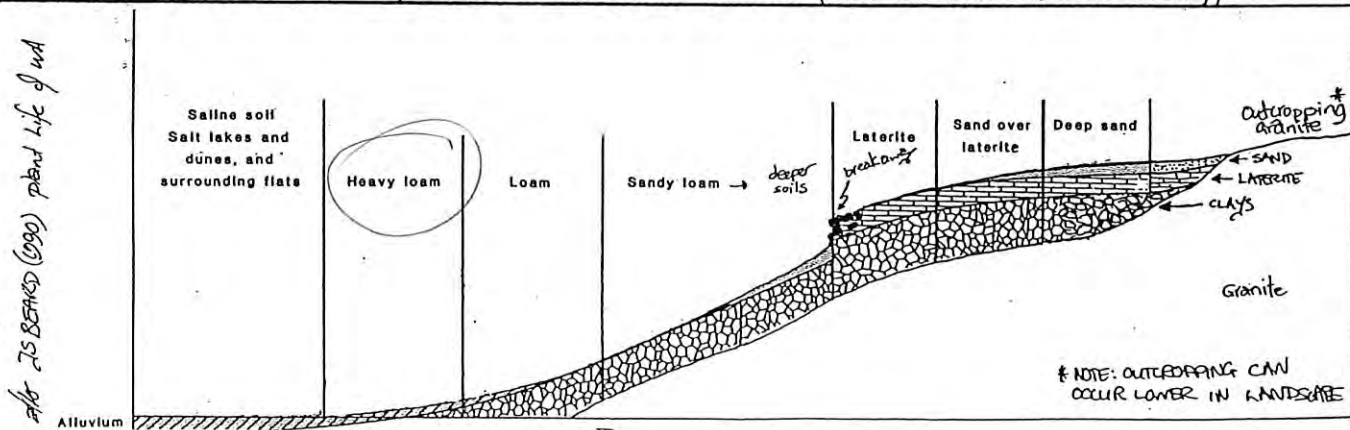
Road Location

Geographic Location Latitude 33 24 23.2 S Longitude 122 25 32.1 E Altitude 31

Reference Map

Photograph Photographer's Name NG Photo No 04

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 <u>clay</u>			Colour	<u>yellowbrown</u>							
Exposed rock	type <u>lateritic pebbles</u>			% surface	<u>10-30</u>							
Sub-surface Soil	type <u>clay</u>			Colour	<u>yellow-brown</u>							
Rock	type _____			depth to rock	<u>>50cm</u>							
Drainage	☒ well	☐ mod	☐ poor	depth water	cm	Wet	☐ all year			☐ winter/spring		
Litter	<u>Wg, twigs, logs, bark</u>			% cover	<u>70/90</u>			Bare Ground	<u>10/30</u>			% cover
	Depth <u>12-20</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			 			30m	10m
COVER CLASS (%)						30-70	
DOMINANT SPECIES						Euc. ?ann	
						" I	
						" II	
SHRUBS					SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m		
LIFE FORM	 					2m	1m
COVER CLASS (%)	10-30					10-30	
DOMINANT SPECIES	Melal. Dodonaea mae Grevill. plurig					Acacia Stenanthium	
GRASSES		HERBS		SEDGES			
				over 0.5m	under 0.5m		
LIFE FORM	 	  					1m
COVER CLASS (%)	L2	L2					
DOMINANT SPECIES							

4. VEGETATION CONDITION

Comments

excellent

✓ Euc. redwood
Smith, coppery grey bark, to 4 m
~~right to 6 m~~
20x20

20x20

name if required

~~Euc. - IV~~ tumida

II leftocoryx

11 *Leptocoryx*

RS (cont.)	No	FI	ID
------------	----	----	----

IRS (cont.)	No	FI	ID
-------------	----	----	----

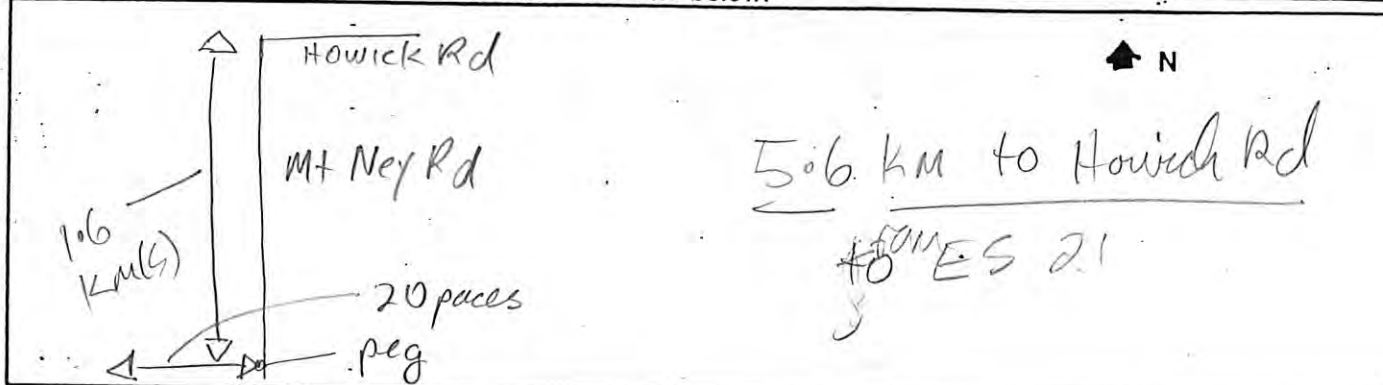
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA ESPERANCE SITE NUMBER ES 24
 DATE TRIP 14-10-2000 RECORDERS NG/GK/AW/WM
 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.

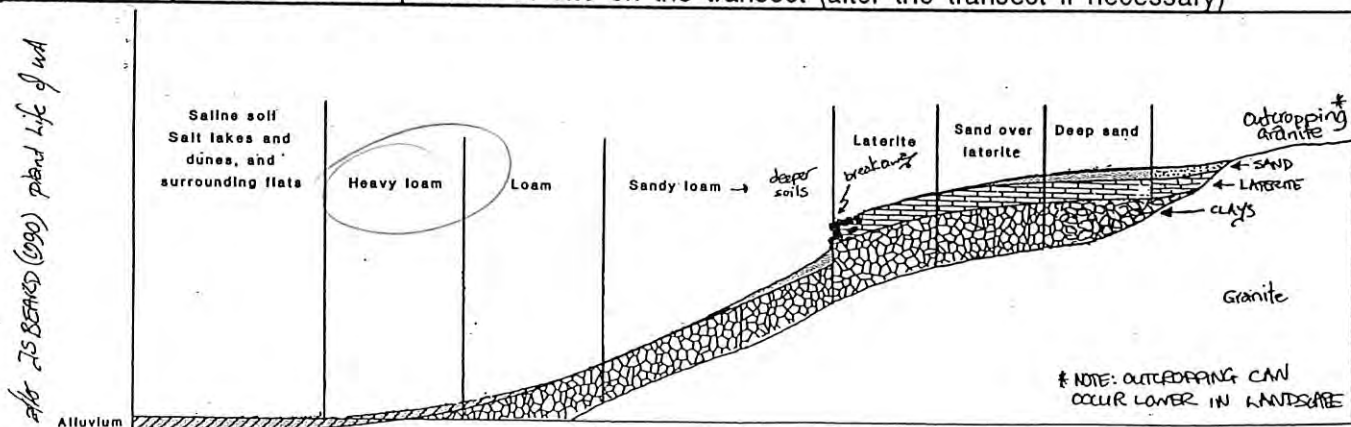


Road Location

Geographic Location Latitude 33 24 41 S Longitude 122 25 18 E Altitude 201
 Reference Map _____

Photograph Photographer's Name NG Photo No 05

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												
Exposed rock	type	<u>lateritic</u>		clay	% surface	<u>10/30</u>						
Sub-surface Soil												
Rock	type	<u>clay</u>		depth to rock	<u>> 1m</u>							
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year		winter/spring			
Litter	<u>15g twigs</u>	% cover	<u>30/70</u>		Bare Ground	<u>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					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					2-10
DOMINANT SPECIES					Euc. gross " wedunco " conglob
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)		30-70			10-30
DOMINANT SPECIES		Mela uncin Exocarp. aphyll			Pultenaea
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	21	21			
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

$$20 \times 20$$

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

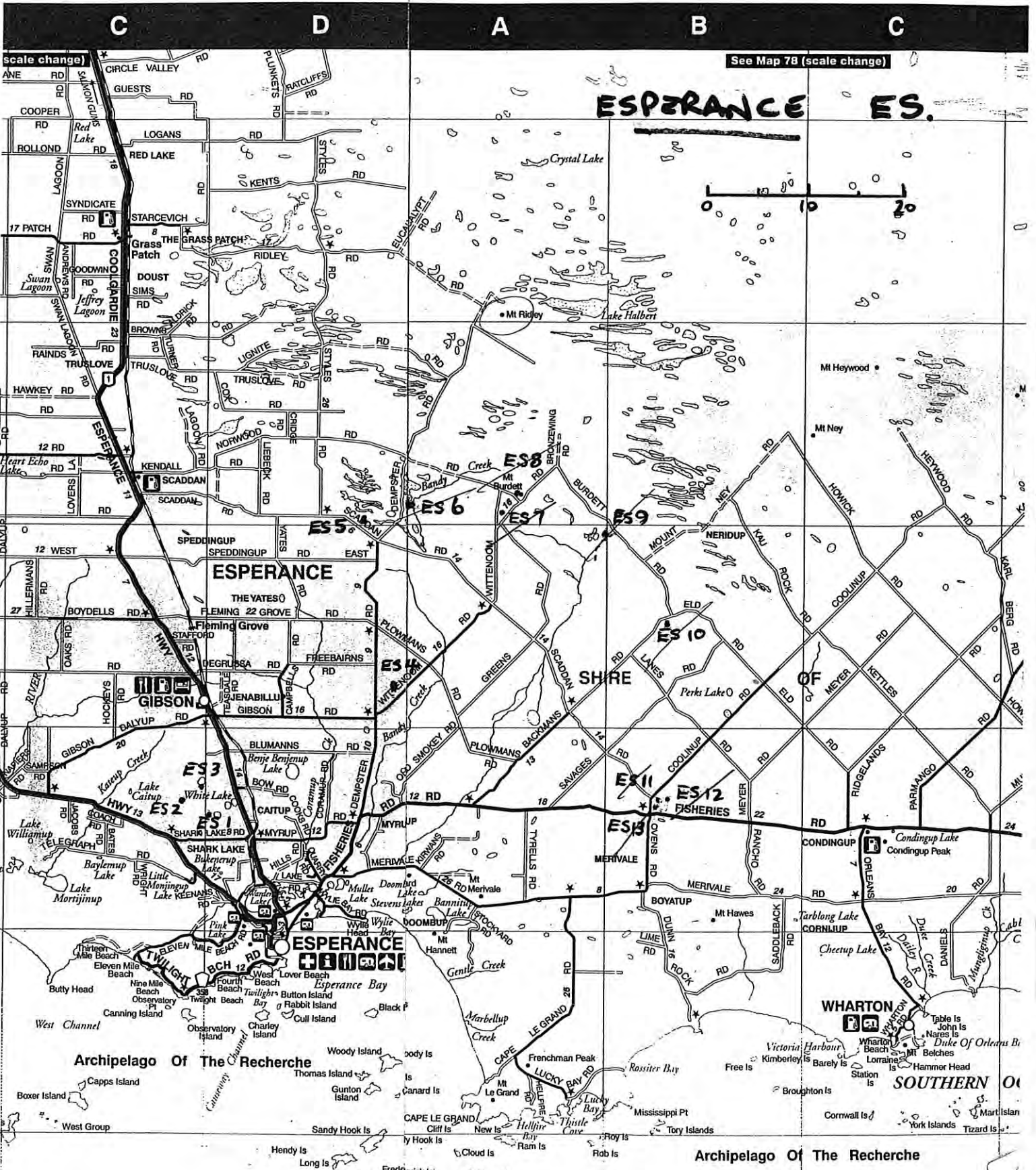
[illegible]

~~note - has exocarpus + a flattened on color 77777?~~
~~shed~~

SS OVERTAKING

IF YOU ARE TIRED, STOP AND REST - DRIVER FATIGUE

For all road condition reports, ring Main Roads Information line 1800 133
For other matters concerning the main Roads network please call the Customer Service
Main Roads Great Southern Regional Office on (098) 920 555

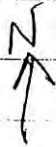


EAST LESTER

HELMS ARBORETUM RESERVE

17 km NNW of Esperance

33 43 08.8
121 48 28.8



FW Lake margin

in sandplain

mantling ? proterozoic bedrock

Strong moss-
algal mat on
surface

over
organics

over
grey, medium
well sorted
sand

Low Paperbark

Woodland of
tall

Melaleuca

shrubs,
Callitris +

myrt/proteaceous

shrubs + herbs
+ grasses

effluent area

behind peripheral

dune / lake

33° 43' 42.0" S
121° 47' 50.3" E

Sandplain

Scattered emergent

• Dryandra + Nuytsia

proteaceous heaths & Casuarina
& sedges on to humus
0.5-1m.

Grey sand / pisolitic ferricrete

~~hard~~ rounded

LAKE

7 10

20

28

MOUNT BRICK

ES3

ES2

ES1

BROCKWAY Rd

4.4
ESPERANCE - NIOK SENAN Rd

Sandplain

grey surface

deep medium well sorted

pale grey sand

Banksia - Nuytsia + Melaleuca

Low open woodland Dryandra

emergents / Myrtaceae

+ Proteaceae + shrubs

& Eucalyptus etc

Kangaroo Paw + Grasses

33° 44' 49.5" S

121° 48' 54.9" E

Varanus tristis on ground

West side of
Merivale 1:100,000

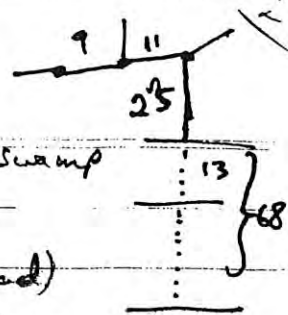
23 km NNE of Esperance

Gov't Reserve

29.11

33° 38' 18.0"
122° 00' 49.9"

2° salt affected paperbark swamp
Melaleuca shrubland
+ sedges & emergent
paperbark mallee (dead)



Mottled clay under skin
Sand skin (4-5 cm)

ES 4

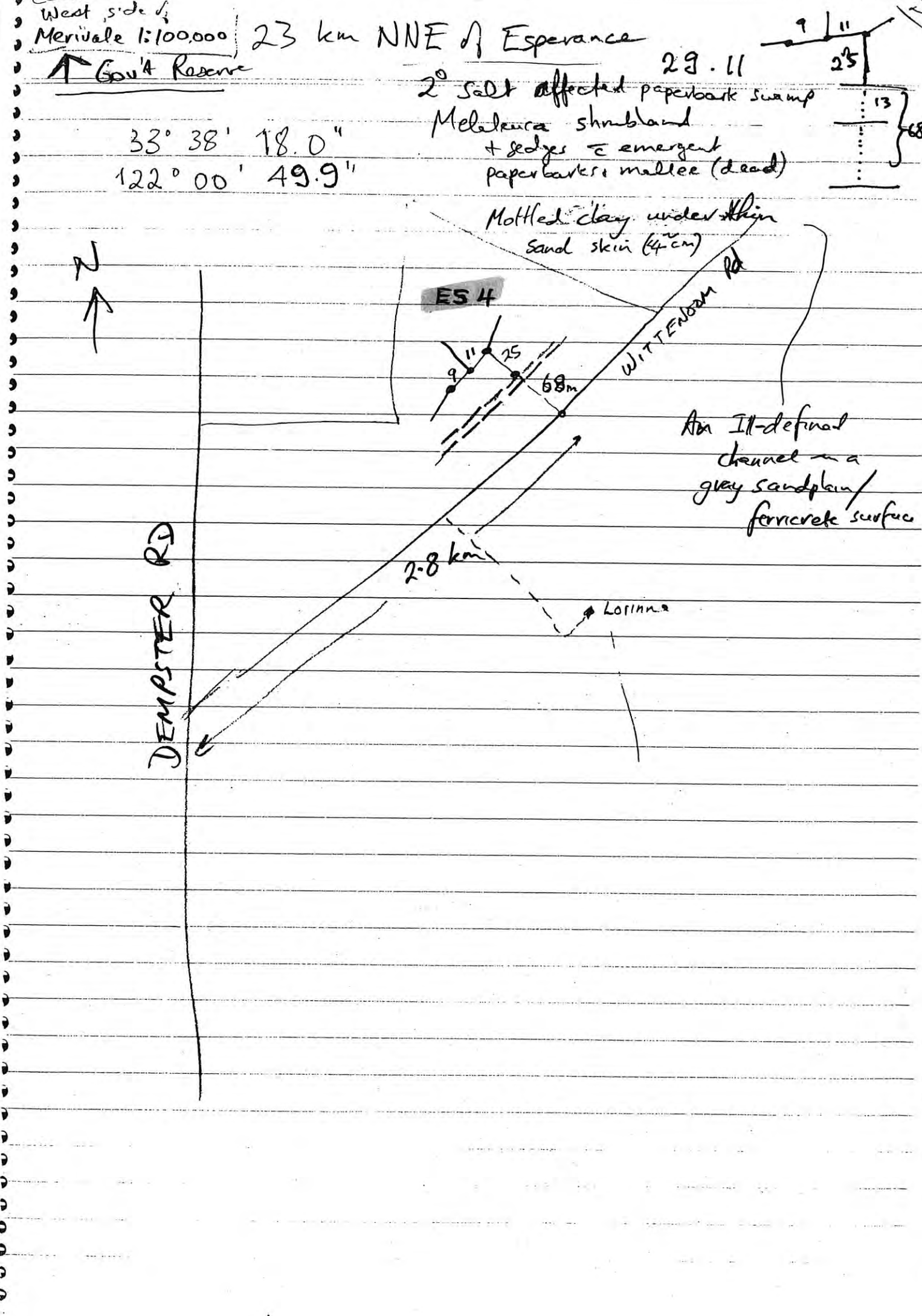
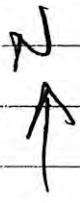
WITTENOOM RD

An ill-defined
channel in a
gray sandplain/
ferricrete surface

2.8 km

Lorinna

DEMPSTER RD



SCADDEN 1:100 000
SE corner

IN Nature Reserve
~ 40 km N of Esperance

33° 29' 19.3" S
121° 58' 16.2" E

7m Tree Mallee ~~Banksia~~ LOW

over Banksia + Myrtaceae to 3m } Tall open shrubland

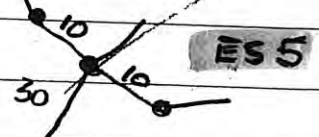
over shrubs to 1m Exocarpos + various Myrtaceae } shrubland

over shrubs + grass to 0.5m etc

Medium textured grey sand (organic rich) to ~ 30cm over stiff clay

Duplex soil

SCADDEN RD



DEMPSTER RD

Samphire Site

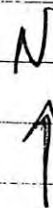
≈45 km ~~NNW~~ of Esperance
NNE

SW Corner of 9
BURDET

1:100 000

33° 28' 11.4"

122° 00' 50.1"



33° 28' 11.4" S

122° 00' 50.1" E

organic rich mud

over dark grey clay at

<15 cm

Samphire ± patches
of tussock grass

1st Saline

Norwood

RD

4.8

Dempster Rd

250m

ES 6

4.4 km

SCADDAN RD

SW corner of
BURDETT
1:100 000

Mt Burdett NR

A. 27384

WITTEBORN Kelly's
Nature Reserve
≈ 40 k NNE Esperance

Mixed Granite + Gneiss

"PEM"
~~PEM~~

"Granite grit":

Detritus (metamorphic of igneous)
= clasts + finer material. Colluvium
Pockets of skeletal soils associated
with vegetation.

33° 27' 30.2" S

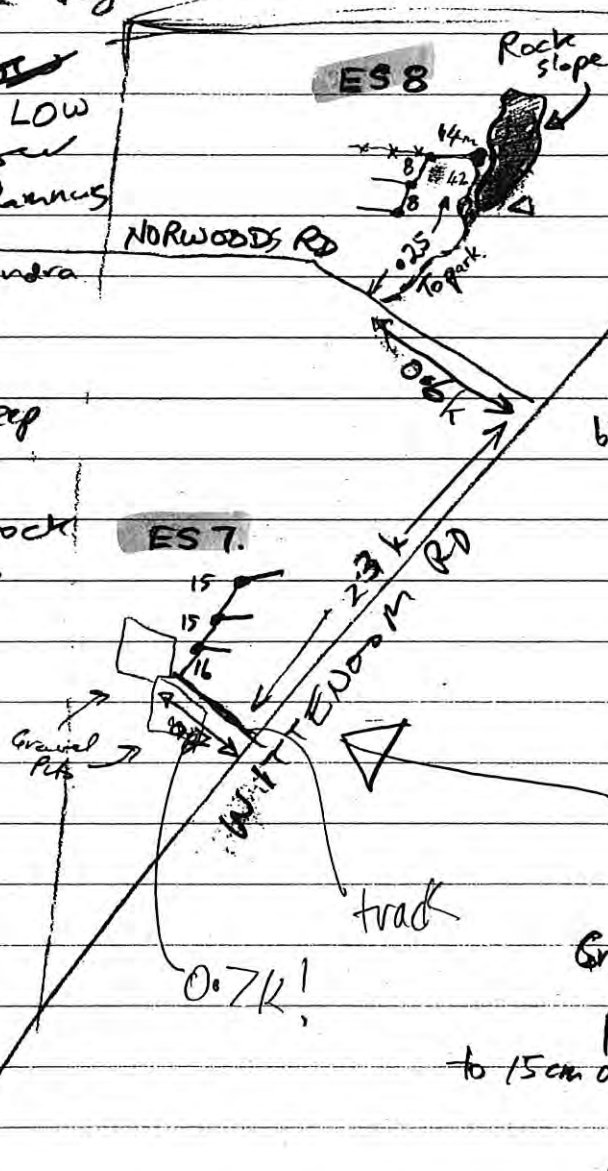
122° 08' 26.3" E

UTM 51H 420121

6297467

Mallee ~~ES~~
Flakes LOW
to 4m over
dense Calothamnus
Sedges, Dryandra
Isopogon to
2m over
Sedges + deep
litter.

"Granite" bedrock
at shallow
depth =



pit depth
51 points found on 1st line
but may need to
split fences into sections
or re-direct parts

33° 28' 29.0" S

122° 07' 16.7" E

Grey sand to 15cm
pisolite ferricrete
to 15cm over clay + developing in
the clay

LO Mallee wood
over shrubs to 1.5m
of banksia, Dryandra, Calothamnus
Melaleuca, ~~Flakes~~
Isopogon + other proteaceous
+ Myrtaceous elements
+ tussock grasses
on gentle slope

BURDETT 1:100 000

~ 45 km NW of Esperance 16
NE

South central edge
of sheet

WITTENOOM rd

Prometheus { AG 12
125

$33^{\circ} 29' 04.9'' S$
 $122^{\circ} 14' 26.6'' E$

LO Mallee W.

orv

Murbaesw scrub

* 1.5m c

Banksia } 2.5m
Casuarina

flaked sk.

BURDETT

Rd

ES9

Deep soil
Sand over mottled clay
no carbonate
segregation seen

"Qpr"

N Resem

0.1 km

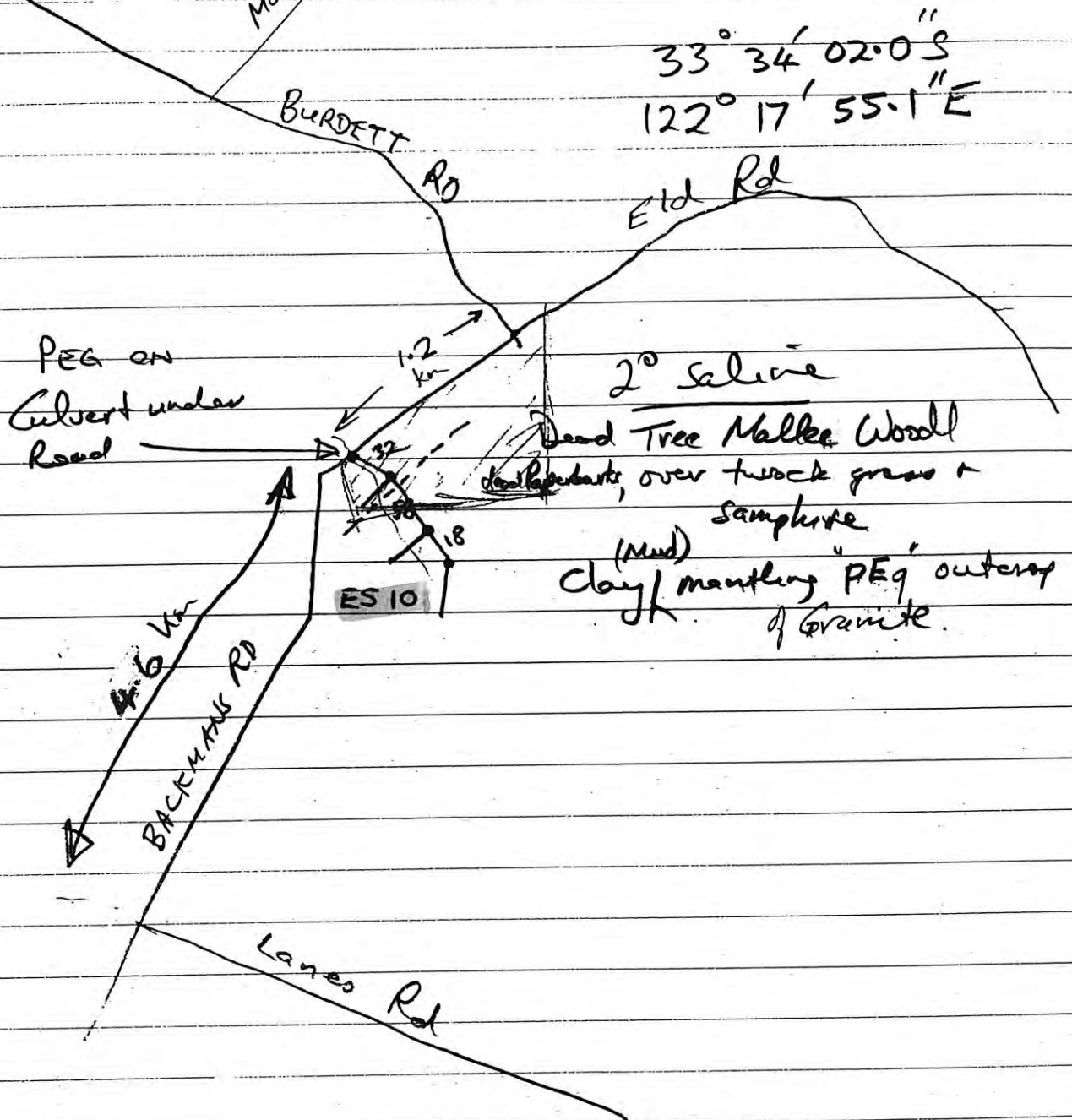
ca. 0.8 km

MT NEV

North central part
of MERIVALE
1:100 000

45 km NE of
Esperance

7



MERIVALE
100 000
Centre of sheet

COOLINUP NR
~ 33 km E of Esperance
43

8



Deep Yellow Medium fine
Sand - Well Drained
Tree Banksia emergent
scrubland (mixed) 2m
C. Myrtica + Xanthorrhoea
Casuarina, Sedgwick, Banksia spp. etc

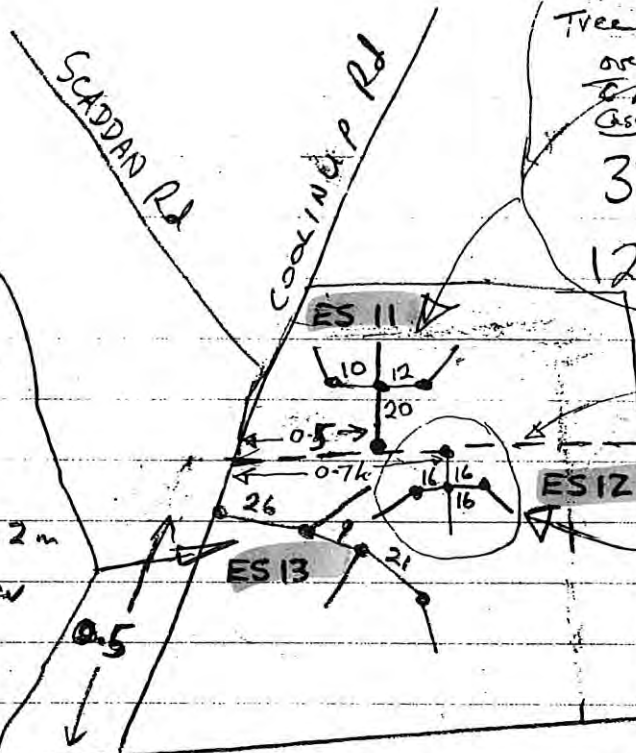
33° 43' 53.1" S
122° 17' 49.8" E

33° 44' 08.9" S
122° 17' 28.9" E

Yate Swamp FW

Yate W / dense
Shrub to 2m
bellbrakes & sedges / letter
Organic-rich sand

Fisheries Rd



Powerline

FW Swamp
Sedgeland to 0.5m
Paperbark thickets
Undifferentiated
medium greyish sand
organics near
surface
(top 10cm)

33° 43' 53.5" S
122° 17' 59.2" E

33° 43' 53.1" S
122° 17' 53.8" E

AMGs

14) - 417979
6315948

15) - 418253
6315957

16) - 418560
6316153

17) - 417962
6316709

18) - 417097
6317487

19) - 444975
6280104

20) - 443587
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21) - 443685
6300156

22) - 447427
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23) - 446587
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24) - 446236
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