

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER I
 DATE TRIP 9-9-1998 RECORDERS NG/GK
 DATE TRIP 10-8-1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Nam's

Road Location

Old Well road. Shire Reserve

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude
<i>Nam's</i>			

Photograph	Name	Number
	<i>NG</i>	<i>20</i>

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

2. SITE DATA Circle the correct response

Slope	flat	☒ <i>gentle</i>	steep	Aspect	N	NE	E	SE	S	☒ <i>SW</i>	W	NW
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Surface Soil	<i>loam</i>	Depth to Rock	<i>> 1m</i>	Colour	<i>red-brown</i>
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Exposed Rock	type	☐	% surface cover	size range
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Litter	<i>(logs) twigs</i>	% surface cover	<i>40/50</i>	Depth (cm)
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Bare Ground	% surface cover	<i>30/70</i>
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> 40% annuals

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%
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TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		2-10	10-20		
DOMINANT SPECIES		<i>Euc. loxoph</i>	<i>Acac acumin</i> <i>Eremoph. granitic</i> <i>Allocas. vacativ</i>		

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

GRASSES		HERBS		SEDGES	
	over 0.5m	under 0.5m	over 0.5m	under 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20	30-70			
DOMINANT SPECIES	<i>Amphipogon</i>	<i>Cheilanthes a-t</i> <i>Waitzia acumin</i> <i>Lantern davenp</i>			

4. VEGETATION CONDITION

Comments

excellent

70 x 20

BUSHLAND PLANT SURVEY RECORDING SHEET 5			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

same.

• Column 4 Identification check																	
TREES			No	FI	ID	SHRUBS (cont.)			No	FI	ID	HERBS (cont.)			No	FI	ID
Eucalypt	loxophleba	✓										Thysanotus	manglesii	✓			
Acacia	acuminata	✓										Rhodanthe	laevis	✓			
												Velleia	cynopos	✓			
												Goodenia	brachyandra	✓			
												Arctotheca	calend	✓			
												Nicotiana	occid	✓			
												Hypochaeris	glab	✓			
												Eriodorum	cygnor	✓			
												Drosera	pallida	✓			
												Schoenia	rassiniana	✓			
												Wahlenbergia	preissii	✓			
												Podolepis	lessonii	✓			
												Podotrichum	gnaphal	✓			
												SEDGES					
												G. lartaria	tenuif	✓			
												Goodenia	pusilla flava	✓			
												Triglochin	striatum ssp. inaequal	✓			
												Drosera pallida =	macrantha	10/8			
												Caladenia	roei	10/8			
												Daucus	glochidiat	10/8			
												Osteospermum	clandest	10/8			
												Velleia	roei	10/8			
												Brachycome	cheilocarpa	✓			
												Actinobale	uliginosa	✓			

X Phyllangium sulcatum

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 2

DATE TRIP 10-9-1998 RECORDERS NG/GK

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

NORM

Road Location BUNTINE ROCK ROAD NR.

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

Photograph	Name	Number
	<u>NG</u>	<u>22</u>

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

2. SITE DATA Circle the correct response

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

Surface Soil	loam	Depth to Rock	10/40cm	Colour	brown

Exposed Rock	type	granite	% surface cover	< 2	size range	20cm

Litter	to 20/30	% surface cover	logs, lvs	Depth (cm)	2-20cm

Bare Ground	% surface cover	30/70

(annuals 30/70 in spring)

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

3. VEGETATION STRUCTURE AND COVER

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

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

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

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	< 1		< 1	10/20	< 1
DOMINANT SPECIES	<i>Ac. acumin</i>		<i>Ac. hemiteles</i>	<i>Ac. acutaria</i> <i>Ac. trinacea</i>	<i>pt. obovatus</i>

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2/10	30/70			
DOMINANT SPECIES	<i>Stipa tricho</i> <i>Amphipogon</i>	<i>Hyalosp. glutinosa</i> <i>Eremophyll ram</i>			

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WUBIN 2

Date 10-9-1998

10-8-1999

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

Record on Sheet

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Euc. 10 x ophioba								Hydrocotyle			
								Hypochaeris glabra pilifera			
								Blechnospora dunnii			
								Artropod preiss			
								Senecio glossanthus			
								Trachym cyanop			
								Actinobole uligin			
								Arctotheca calceid			
MALLEES								Calandrinia (purple) calyptrata			
				GRASSES				Crassula colorata			
				Stipa elegantiss				Bulbine semibarb			
				Bromus madritense				Plantago aff hispidula			
				Danthonia				Wahlenberg preiss			
SHRUBS				Avena				SEDGES			
Acacia acuminata				Aira coryophyll				Podolepis lessonii			
" acutaria								Phyllanthium paradoxum sulcatum			
" spinacea								Goodenia pusilliflora			
Philotus obovatus								Podolepis stricta muellerianus			
Cassia nemophila								Urtica cynopod			
Comesperma integerrima				HERBS				Rhodanthe (hair) Hyalospermum bach			
Eremophila dadi piens				Ostospermum clandestin				" laevis			
Rhagodia drummond				Hyalospermum glutinos glutinos				Isotopsis gramin			
Acacia hemiteles foed ing				Eremophyllum ramosum ramos				Cheilanthes austro-t			
Enchylaena toment				Thysanotus manales				Podolepis gordon			
Mameba planifolia				Trachymene ornata				Triglochin calcitrapum sp incun			
				Erodium cygnorum				Isotopsis marginata			
				Calotis hispidula				Chthonoceph pseudov			
				Waltzia lacum				polycrphaladusp			
Sclerolaena	10/8			Rhodanthe & corymbosum				Goodenia	10/8		
Olearia muelleri	10/8			Goodenia neraldiana				Daucus alochid	10/8		
				Nicotiana occid				Hypoxis glabella	10/8		
				Laurenciella davenp							
				Sonchus oleraceus							

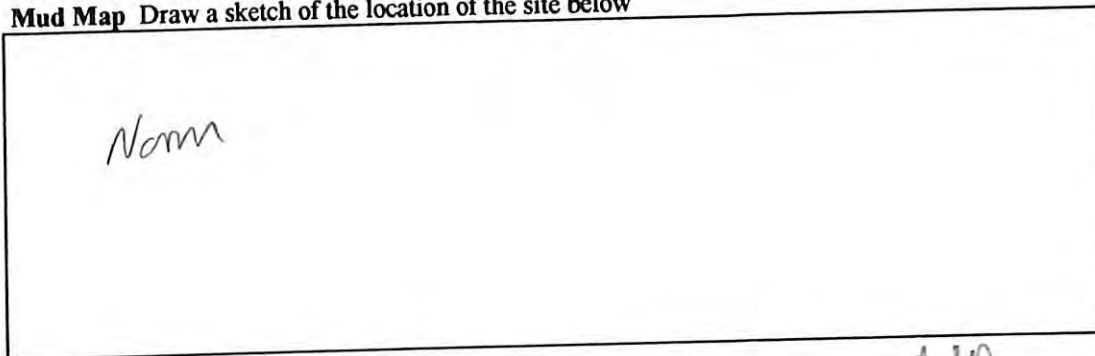
Isotopsis
Brachycome propusilla
gland 10/8

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 3
 DATE TRIP 10/9/1998 RECORDERS NG/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location BUNTINE ROCK NR.

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

Photograph Name NG Number 23

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

2. SITE DATA Circle the correct response

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

Surface Soil loamy clay Depth to Rock 10-30cm Colour red-brown

Exposed Rock type granite % surface cover 30/50 size range 10-50cm

Litter 20/30 % surface cover logs, twigs Depth (cm) 2-20

Bare Ground % surface cover) 30/50

(annuals 30/50 spring)

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)			20/30		
DOMINANT SPECIES			<i>Acacia acuminata</i>		
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		20/30			
DOMINANT SPECIES		<i>Alloc. camp</i> <i>Mel. steedmanii</i> <i>Leucon panic</i>	— 20% dead (drought) (dead) — seedling		
GRASSES		HERBS	SEDGES	under 0.5m	
	over 0.5m		over 0.5m		
LIFE FORM					
COVER CLASS (%)	2	30/50		2%	
DOMINANT SPECIES	<i>Stipa</i>	<i>Boraginifera nitida</i> <i>Lawrencea clav</i>		<i>Lepidosperma</i>	

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No	WUBIN	3
Date	10-9-1998	
	10-8-1999	

Record on Sheet

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

[illegible]

✓ Rhodanthus spicatum 10/9/58

Lobelia (red) — 10/8
Cyanicula amplexans 10/8 —

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 4

DATE TRIP 10-9-1998 RECORDERS NG/GK

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

NORM

Road Location Buntine NR

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

Photograph Name NG Number 24

Topographic Position (Circle the correct response)

<u>Upland</u> Upper slope Midslope	Lower slope Valley Washline
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2. SITE DATA Circle the correct response

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

Surface Soil sand Depth to Rock > 2m Colour Yellow

Exposed Rock type 0 % surface cover size range

Litter logs, twigs % surface cover 20/30 Depth (cm) 2-5

Bare Ground % surface cover 30/50

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES				MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)				Euc. gilliesii	
DOMINANT SPECIES				(adj)	
SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10		2-10		2
DOMINANT SPECIES	Acacia		M-el. cordata		Psammom
	Allocas camp		Hakea erecta		Baeckea
			Isop. tetrag		
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2	2			10-20
DOMINANT SPECIES	Neracine al	Polysonia			Schoenus
		Lomandra			Ecdyrollea
					Chrysitrix

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

10 - Q - 1999

Eucl. Giffins

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
MALLEES				GRASSES Neurachne alopecuroid Amphipogon strictus				SEDGES Edeicola monost Schoenus sp "WV4" (plis) Chrysanthemum distigmatosa Schoenus nanus			
SHRUBS				HERBS							
Allocasuarina campestris				Lomandra ? collina				Cassytha glabella 10/8			
Acacia patulifolia				Patersonia drummondii				Hibbertia Drummondii 10/8			
Acacia pronothamnoides				Drosera pallida = macrantha 10/8				Cryptandra nigrifolia 10/8			
Melaleuca cordata				Caladenia varians				Caladenia varians 10/8			
Banksia Astorba heterantha (var) calyptroides				Conostylis androstemma							
Calyptrix gracilis vsp				Thysanotus ? mangl							
Psammomoya implexa vsp				Crabapple pedunculosa							
Verticordia picta				Thysanotus paterson							
Melaleuca cf scabra											
Chamaelaurium drumm drumm (var)											
Melaleuca II											
JSD Petrophile - diverse off semi arid											
Micromyrtus obovata (var)											
Acacia lasiocalyx vsp											
Acacia isonura ssp nimia vsp											
Acacia sterophylla ssp sterophylla											

✓✓ Eneklurbos sp 10-9-98 ✓
see spilis

ADD {Hakea media
Isopogon toetf. from overhast.

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 5A

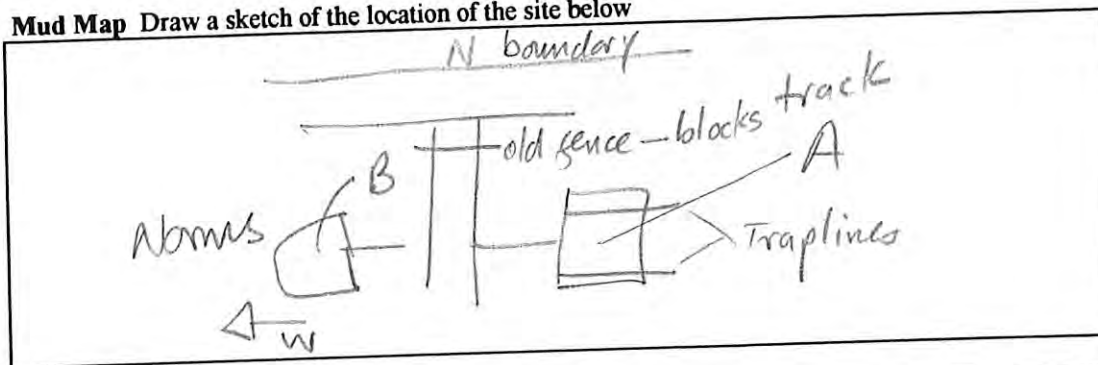
DATE TRIP 10/9/1998 RECORDERS NG/GK

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location

Buntine NR

Geographic Location

Latitude
GPS
Map Sheet

S Longitude
Accuracy

E Altitude

Photograph

Name

NG

Number

25

Topographic Position

Upland

Upper slope

Midslope

Lower slope
Valley
Washline

(Circle the correct response)

2. SITE DATA Circle the correct response

Slope flat gentle steep

Aspect N NE E SE S SW W NW

Surface Soil

sandy gravel

Depth to Rock

10cm

Colour

yellow/brown

Exposed Rock

type

gravel

% surface cover

2-10

size range

Litter

twigs, lgs

% surface cover

70/90

Depth (cm)

2-10

Bare Ground

% surface cover)

10/30

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)					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES					
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30/50	2-10			2-10
DOMINANT SPECIES	<i>Alloc. acutiv</i> " <i>comic</i> <i>Acacia</i>	<i>Thryps aust</i> <i>Mel. cordata</i> <i>Mel. ? n esoph</i>			<i>Baeche</i>
GRASSES		HERBS	SEDGES	over 0.5m	
LIFE FORM					
COVER CLASS (%)	L2	L2		L2	
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

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

SITE No wubin 5A

Record on Sheet

- Column 1 plant name

- Column 2 plant number

• Column 3 flowering time- TICK if species flowering

• **Column 4** **identification** **check**

Date 10-9-1998

10 - 2 - 1999

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
MALLEES				GRASSES				SEDGES			
SHRUBS				HERBS							
Allocas acutivalv				Millestemon tuberculatus				Schoenus nanus			
Thryptom ? aust				C. Transides				" (as Wain 4)			
Melaleuca cordata				sterophylla ssp sterophylla							
" 42 nroph											
Acacia ? rhodantha											
Allocasuarina conicul											
Darwinia purpurea											
Eucalyptus sp. sessilis				Waitzia acumin				macrantha 10/8			
Baeckea aff cryptanthoides 10/8				Drosera pallida							
Astroloma serratifolium 10/8				Rhodanthella laevis							
Thryptomene kochii				Velleia cynopos							
Baeckea " p. d. riana 10/8				Trachym cyanop							
Thryptomene 10/8				Drosera glandulifera				Cyanocula amplexans 10/8			
Micromyrtus racemosa				Levenhookia distipit				Phrostylis nana (hairy) 10/8			
racemosa				Grossula pedicell				Blennospora drum 10/8			
Acania mackeyana 26/9				Drosera glandulifera							
				Thysanotus (manal)							
				Hippochaeris glabra							

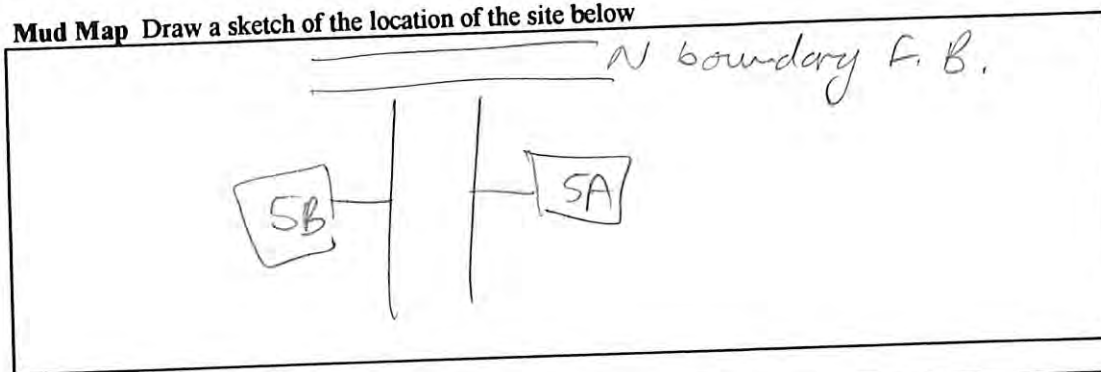
Thyphonare cuspidata - sp. within (METSFOY) (USA) -

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER SB
 DATE TRIP 10/9/1998 RECORDERS NG/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location BUNTINE NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude
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Photograph	Name <u>NG</u>	Number <u>26</u>
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Topographic Position	(Circle the correct response)
<u>Upland</u>	Lower slope
Upper slope	Valley
Midslope	Washline

2. SITE DATA Circle the correct response

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

Surface Soil	Depth to Rock	Colour
<u>loam</u>	<u>5cm to grey mottled clay</u>	<u>red</u>

Exposed Rock	type	% surface cover	size range
<u>stems - odd lvs</u>	<u>0</u>	<u>10/20</u>	<u>2cm</u>

Litter	% surface cover	Depth (cm)
<u>standing twigs</u>	<u>50/70</u>	<u>2cm</u>

Bare Ground	% surface cover
<u>50/70</u>	

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 (%)					2-10
DOMINANT SPECIES					Euc

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)		1	30/70		
DOMINANT SPECIES		Davallia	Mpl. undulata " agath Acacia sp		

GRASSES		HERBS		SEDGES	
	over 0.5m			over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	L2	L2	L2		
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

Mallee 4m
rough grey bark basal
g name if required 2m
pink-grey smooth bo
green-shiny lvs

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

10/14/1999

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
MALLEES											
Eucalyptus kochii kochii		vsp									
				GRASSES							
SHRUBS											
Acacia mackeyana		(vsp)						SEDGES			
Melaleuca undulata											
" - longistaminea longistaminea		(vsp)									
Daviesia nematophylla		vsp									
Cornespermum integrum											
Fremontia drummondii		vsp									
Enchylaena tomentosa				HERBS							
Melaleuca adnata		vsp		Waltzia acumin							
				Gymnosporia rubra		vsp					
				Oblennospora drumm							
				Pandanus gordonii/microceph				10/8			
				Dianella revoluta		10/8					
				Caladenia flava		10/8					
				Eriochilus dilatatus							

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 6

DATE TRIP 9/9/98 RECORDERS N/GK

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location Grt N. Highway / Manual Rd / Wubin Rocks Res

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude
<u>Norm's</u>			

Photograph	Name	Number
<u>NG</u>		<u>13</u>

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

2. SITE DATA Circle the correct response

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

Surface Soil	<u>loam</u>	Depth to Rock	Colour	<u>brown</u>

Exposed Rock	type	<u>laterite</u>	% surface cover	<u>2-10</u>	size range	<u>pebbles</u>

Litter	<u>logs/stems</u>	vs	% surface cover	<u>30/70</u>	Depth (cm)	<u>2-20cm</u>

Bare Ground	% surface cover	<u>10/30</u>

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species in each					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES					
	over 15m	5-15m	under 5m		
LIFE FORM					
COVER CLASS (%)					1-10
DOMINANT SPECIES					Euc.
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30/70	1-10			
DOMINANT SPECIES	<i>Allocas. camp</i> <i>Acac. skeoph</i> <i>Caloth. old field</i>	<i>Mel. cordata</i> <i>Lyce. poradoca</i>			
GRASSES		HERBS	SEDGES		
			over 0.5m	under 0.5m	
LIFE FORM					
COVER CLASS (%)	2-10	10-20		<2	
DOMINANT SPECIES	<i>Stipa</i>	<i>Lawnenc. davenp</i>		<i>Schoenus. haines.</i>	

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

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

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. oldfieldii* (VSD)
smooth grey bk, rough grey
basal 30/50 cm - 5m

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
/								Trachy ornata ✓			
/								Hypochaeris glabra ✓			
/								Podolepis canes ✓			
/								Rhodanthe laevis ✓			
/								Eilbertia tenuiflora ✓			
/								(Rhodanthe) corymbosica spicata ✓			
MALLEES								Paranthera microphylla ✓			
/								Drosera macrantha - 9/8			
/ Acacia stenophylla ssp stenophylla				Amphipogon strictus - 9/8				Thysanotus ? thyrx - 9/8			
SHRUBS								Drosera ✓			
Calothamn. oldfieldii ✓	-							SEDGES			
Melaleuca cordata ✓	-							Sclenus : nanus ✓			
Lrevill paradoxo ✓	-										
Allocas campestris ✓	-										
Thryptomene } E austr - (WP)	-										
} crispata ✓	-										
Baeckbea = A. decurrens ✓	-			HERBS							
= Antea heterantla ✓	-			Levenhookia pusilla ✓							
Acaria rhodophloia - 9/8				Laurencella davenport ✓							
				waitzia acumin ✓							
				Blennoxpora drumm ✓							
				Drosera pallida ✓							
				Stylid confuens ✓							
				Thysanotus patersonii ✓							
				Cyanicula amplexans ✓							
				Gonocarpus nodulosus ✓							
				Ocheilanthes austrot ✓							
				Hydrocotyle callicarpa ✓							
				Vellera cynopet ✓							
				Millotia tenuifolia ✓							

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 7
 DATE TRIP 9/9/1998 RECORDERS NG/GK
 DATE TRIP 10/8/1999 RECORDERS NS/SK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Norms

Road Location

Jibberding NR.

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude
---------------------	------------------------------	-------------------------	------------

Photograph	Name <u>NG</u>	Number <u>16</u>
------------	----------------	------------------

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

2. SITE DATA Circle the correct response

Slope <u>flat</u> gentle steep	Aspect N NE E SE S SW W NW
Surface Soil	Depth to Rock <u>10cm</u> Colour <u>red-brown</u>
Exposed Rock type <u>○</u> % surface cover	size range
Litter <u>10/20</u> % surface cover <u>twigs, lvs</u> Depth (cm) <u>2-5cm</u>	
Bare Ground % surface cover	<u>20-50</u>

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

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES					
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM			 		
COVER CLASS (%)	dead <1				
DOMINANT SPECIES	<i>Euc. loxophl</i>				
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 				
COVER CLASS (%)	(dead) 2-10				2-10
DOMINANT SPECIES	<i>Acacia</i>				<i>Phil. obov</i> <i>Atrip. -vesic</i>
GRASSES		HERBS	SEDGES	over 0.5m	
				under 0.5m	
LIFE FORM	 	 	 	 	
COVER CLASS (%)	2-10	30/50			
DOMINANT SPECIES	<i>stipa</i>	<i>Argemol stricta</i> <i>Podolep cap</i>			

4. VEGETATION CONDITION

Comments

trees/shrubs dying - ? salt

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

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

SITE No Wybin 7

Record on Sheet

- Column 1 plant name

Date 9-9-1998

- **Column 2** **plant number**

10-4-1999

• 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
dead E. loxophleba								✓ Levenhookia leptantha			
								Cithono pseudae			
								Trachymeke cyano			
								✓ Erodium / cyan			
								✓ Brachycome chelidonia			
								Sonchus olerac			
MALLEES								Crassula			
								Hypochaeris glab			
				GRASSES				✓ Hyalospermum demiss			
				Stipa elegantiss				Arctotheca calendula			
				✓ Bromus Unadriten				Calandrinia			
SHRUBS				✓ Vulpia myuros				Schoenia cassiniae			
dead Acacia				Stipa trichoph				✓ Rhodanthe pygmaea			
				Aira				SEDGES			
Atriplex vesicaria				Danthonia				Triglochin calcitr ssp			
Ptilotus obovat								Hydrocotyle pilosa			
Maireana triptera								Brachytene ibediidifolia (usp)			
" carnososa								✓ Hyalosperma glutinosa glut			
Sclerolaena diacantha				HERBS				Calandrinia			
Rhagodi drumm				Osteospermum clandest				Ptilotus gaudich			
Ptili obov				Ptilotus exaltatus				Plantago aff hisp			
Sclerolaena diacanth				Hypochaeris glabra				Cuscuta epithym			
				✓ Podolepis stricta							
[Acacia brunitis				Podolepis capill							
/// anthochaeare.				Podolepis canescens				Senecio glossanthus			
				Gordelia herardiana				Cuscuta			
				" sp				Rhodanthe			
				Actinob uliginos				Calotis multicaulis			
				Wahlenberg preiss				Vellera cynop			
				Linaphosis				Rhodanthe spicata			
				Ustemonpetalum				Ptilotus gaudich			
				Podolepis							

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 8

DATE TRIP 9/9/1998 RECORDERS NG/GK

DATE TRIP 10/9/99 RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Norm's

Road Location Grt Nthn Highway / VCL

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude
<u>Norm's</u>			

Photograph Name NG Number 17

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

gypsum heave in salt lake

2. SITE DATA Circle the correct response

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

Surface Soil brown clay Depth to Rock >5m Colour brown

Exposed Rock type 0 % surface cover size range

Litter L2 % surface cover twigs Depth (cm)

Bare Ground % surface cover >70

3. VEGETATION STRUCTURE AND COVER

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

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

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

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					20/30
DOMINANT SPECIES					Halosarc halocn

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

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

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

SITE No Wubin 8
Date 9-9-1998

10/9/99

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

TREES

No FI ID

SHRUBS (cont.)

No FI ID

HERBS (cont.)

No FI ID

MALLEES

GRASSES

SHRUBS

Halosarcia halocnemoides
Frankenia

SEDGES

HERBS

Senecio glossanthus

Sonchella glabrata

Trielochin cf. centro-nanum (usp)

Atriplex spongiosa

Angianthus tomentos

Calandrinia polyand

" granulifera

Calandrinia

Chondropyxis halophila

holocarpa

10/9

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 9
 DATE TRIP 9-9-1998 RECORDERS NG/GK
 DATE TRIP 10-8-1999 RECORDERS NG/GH/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location

UCL

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude
---------------------	------------------------------	-------------------------	------------

Photograph	Name	Number
------------	------	--------

NG

18

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

2. SITE DATA Circle the correct response

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

Surface Soil	Depth to Rock	Colour
<u>sandy loam</u>		<u>red brown</u>

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

Litter	% surface cover	Depth (cm)
<u>logs, twigs, etc</u>	<u>50/70</u>	<u>2-20</u>

Bare Ground	% surface cover
	<u>10/30</u>

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. salmono</i>				
	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10				2-10
DOMINANT SPECIES	<i>Acacia</i>				<i>Atriplex vesic</i>
	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	20/30			
DOMINANT SPECIES	<i>Stipa</i> ~~leach~~ <i>eleg</i>	<i>Cephalanthus</i> <i>Zygophyllum</i>	<i>Arthrocnemum</i>		

4. VEGETATION CONDITION

Comments

very good — excellent
grazed, camping in past

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No Wabin 9

Date 9-9-1998

10 - 6 - 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

same

[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Wubin SITE NUMBER 10
 DATE TRIP 9/9/1998 RECORDERS NG/GK
 DATE TRIP 9/8/1998 RECORDERS NS/GH/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location Jibberding NR

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

Photograph	Name	Number
	<u>NG</u>	<u>15</u>

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

2. SITE DATA Circle the correct response

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

Surface Soil	Depth to Rock	Colour
<u>red/brown</u>	<u>> 1m</u>	<u>loam</u>

Exposed Rock	type	% surface cover	size range
		<u>0</u>	

Litter	% surface cover	Depth (cm)
<u>20/90</u>	<u>logs, lvs, twigs</u>	<u>2-20</u>

Bare Ground	% surface cover
<u>2-10</u>	

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

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				
DOMINANT SPECIES	Euc. toroph				
	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10			20/30	20/30
DOMINANT SPECIES	Exocarp. aphyll			Ac. tetragon	Pimel. micro
					Olearia muelln
					Rhaq. drumm
	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20	20/30			
DOMINANT SPECIES	Stipa eleg	Osteospermum			
	"	Brachy. Brassica T			

4. VEGETATION CONDITION

Comments

good, moderate weed invasion

20+20 same

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

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

SITE No Wubin 10

Record on Sheet

- Column 1 plant name

Date 7-9-1998

- Column 2 plant number

4-4-1999

• **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
Eucalyptus loxophleba								Podotheca gnaph			
								✓ Thysanot mangles			vsp
								✓ Calotis hispidula			
								Daucus gloch			
								Waitzia acum			
								Calandrina (white)			
MALLEES								✓ Bulbine semibarb			
				✓ ~~2 Aro~~ / Pentaschistus airoides				✓ Lepidium oxytrichum			
				GRASSES				Hydrocotyle			
				✓ Stipa elegantiss				Hyalospermum demiss			
				"				Gynniopsis			
				Danthonia							
Olearia muelleri	(vsp)			✓ Bromus machritensis				SEDGES			
Exocarpos aphyllus				✓ Avena (barbata)	9/8		vsp				
Rhagodia drumm				Vulpia							
Dodonaea viscosa angust				✓ Bromus crevarius				Hyospermum picroides	9/8		
Atriplex vesicaria				Monacather paradoxa				Hypochaeris glabra	9/8		
Pimelia microcephala (vsp)				Lolium rigidum							
Olearia axillaris premie				HERBS							
Olearia pimelioides pimelioides	(vsp)			Erodium cygnorum				Rhyarthra (aust/linearis)	9/8		
Ptilotus obovatus				Senecio glossanthus							
Acacia				Brassica tournefortii				Thymium molle	9/8		
Sclerolaena diacantha				Ostospermum claddestin				✓ Podolepis pepperii			
Enchylaema tomentos				Sonchus olivaceus				Solanum orbiculare	9/8		
Corniesperma integer				Arctotheca calendula				Crassula pedicellosa	9/8		
				Plantago all hispidula				Stellaria filiformis	9/8		(vsp)
				(vsp) Stenopletatum spharoc-pedicellum							
				✓ Calandrinia calyptrata vsp							
				✓ Trachym cyanopetala							
				Ptilotus exaltat							
				Lambricella (spora)							
				✓ Crassula colorata							

ADD Ac tetragonphylla.
from cover sheet.

1 davenportii (vsp) -

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Wubin SITE NUMBER 11

DATE TRIP 8/9/98 RECORDERS NG/GK

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Snake Gully NR

Road Location Naggadong / Snake Gully NR

Geographic Location	Latitude GPS Map Sheet	S Longitude Accuracy	E Altitude

Photograph	Name	Number
	<u>NG</u>	<u>12</u>

Topographic Position	(Circle the correct response)
Upland Upper slope <u>Midslope</u>	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>clay loam</u>	Depth to Rock	Colour	<u>brown</u>
--------------	------------------	---------------	--------	--------------

Exposed Rock	type	<u>0</u>	% surface cover	size range
--------------	------	----------	-----------------	------------

Litter	<u>10/30</u>	% surface cover	<u>lvs, twigs</u>	Depth (cm)	<u>2-20</u>
--------	--------------	-----------------	-------------------	------------	-------------

Bare Ground	<u>30/50</u>	% surface 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 (%)	2-10/20		2-10		
DOMINANT SPECIES	<i>Euc. salubris</i>		<i>Melal. pauperif</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>Acacia</i>			<i>Acac. erinac</i> <i>Olearia muelleri</i>

GRASSES		HERBS		SEDGES	
	over 0.5m		under 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	<2	20-30			
DOMINANT SPECIES		<i>Maizeana comosa</i>			

4. VEGETATION CONDITION

Comments

excellent

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No Wubin 11

Date 8-9-1998

9-8-1999

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

Record on Sheet

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

20x20

Euc. gracilis -

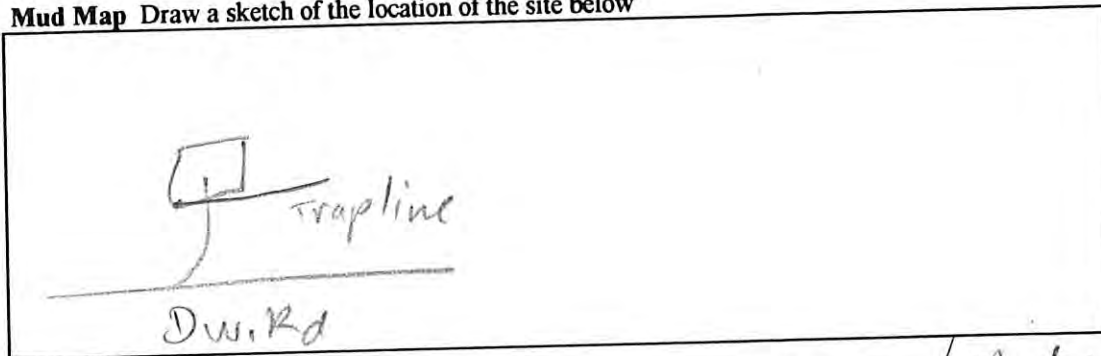
[illegible]

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 12
 DATE TRIP 8-9-98 RECORDERS NG/GK
 DATE TRIP 9-8-99 RECORDERS NS/SJK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location Dalwallinu West Road / Martijanni NR.

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

Photograph	Name <u>NG</u>	Number <u>7, 8</u>
------------	----------------	--------------------

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

2. SITE DATA Circle the correct response

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

Surface Soil	<u>sand</u>	Depth to Rock	<u>?</u>	Colour	<u>yellow</u>
--------------	-------------	---------------	----------	--------	---------------

Exposed Rock	type ☒ ☐	% surface cover	size range
--------------	---	-----------------	------------

Litter	<u>30/70</u>	% surface cover	Depth (cm)	<u>1-5cm</u> <u>+ twigs, lvs</u>
--------	--------------	-----------------	------------	----------------------------------

Bare Ground	<u>10/30</u>	% surface cover	<u>(some > 50)</u>
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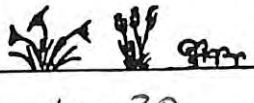
BUSHLAND PLANT SURVEY RECORDING SHEET 2 (Muir)- use pencil only

3. VEGETATION STRUCTURE AND COVER

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

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)			10-20		
DOMINANT SPECIES			Banksia prionot Xylomel. ang Actinost. ornata		

	SHRUBS				SHRUBS
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10				2-10
DOMINANT SPECIES	Calotham olct Erem paucif				Verticordia Petroph. le

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	1-5			10-30
DOMINANT SPECIES	Plectrochne cl Neurachne alop	Dracaena stolon Millotia tenuif			Mesomelaena Ecdicolea monos Schoenus sp Lepidobolus chaet

4. VEGETATION CONDITION

Comments

Excellent

Check

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

Record on Sheet

has clear

1/2 cup

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Banksia prionotes								Ursinia anthem.			
Xylomelast angustifolia								Caladenia cairiana			
								Podolepis canescens			
								Gilbertia tenuifolia			
								Peratogyne oblongoides			
								Trachymene cyanoptala			
MALLEES								Crassula decumbens			
				GRASSES				Waitzia acuminata	9/8		
				Pentstemonis arvensis				Dianella revoluta			
				Stipa elegantissima				Drosera menziesii			
				Amphipogon							
SHRUBS				Neracanthus alopecurus				SEDGES			
Colothamnus (glaberrimus)				Vulpia myuros				Lepidobolus chaetax			
Mehaleuca cordata				Stipa compressa				Mesomel. preissii			
Fremontia								(A) Schoenus nanus			
Leucopogon? hamulosus var. subpubescens				Plectrachne (as Walz)	9/8			Ecdiccolea mono			
Petrophylla & ericifolia								Schoenus (flat)			
Rhaubodia drumm				HERBS				Tetraria microdasya			
Verticordia (? plum)				Caladenia flava							
Calytrix				Drosera stolonifera							
				Millotia							
Actinostrob orenarius	vsp			Levenhookia pusilla							
Leptospermum oligandrum				Rennospora drumm							
X Hemandra	9/8			Ayalospermum demissum							
				Podlothea angustifolia							
X Logania flaviflora	9/8			Paranthera unifloria							
Jacksonia				Crassula colorata							
				Hypochaeris alabra							
				Crassula pedunculosa							
				Trachym ornata							
				Thys. bakerianae							

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 13
 DATE TRIP 8/9/98 RECORDERS NG/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location Nugadong - west road.

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

Photograph	Name	Number
	<u>NG</u>	<u>10</u>

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

2. SITE DATA Circle the correct response

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

Surface Soil	Depth to Rock	Colour
<u>clay</u>	<u>?</u>	<u>grey</u>

Exposed Rock	type	% surface cover	size range
	<u>0</u>		

Litter	% surface cover	twigs	Depth (cm)
	<u>1-10</u>		<u>2-10</u>

Bare Ground	% surface cover	(30/50% annuals)
	<u>10/50</u>	

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.

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 (%)	0-10			20-30	
DOMINANT SPECIES	Dead <i>Melaleuca lateriflora</i>			<i>Halosarcia halocnemoides</i>	

GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	1-2	30/50		<1?	<1?
DOMINANT SPECIES		<i>Cotula cotuloides</i>			

4. VEGETATION CONDITION

Comments

salt affected

BUSH AND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No WUBIN 13

Date 8/9/1998

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

Record on Sheet

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

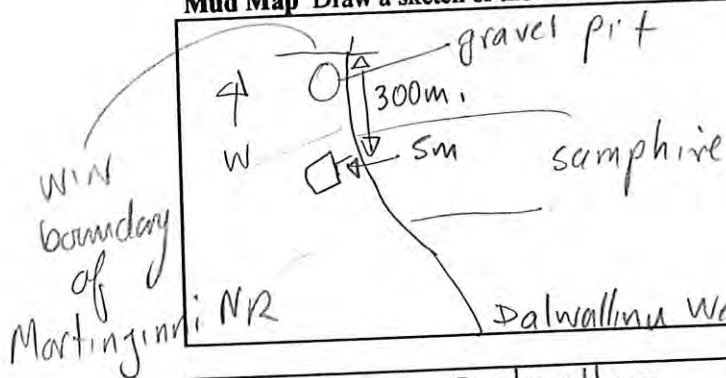
TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
MALLEES				GRASSES							
				<i>Lolium rigidum</i> - vsp <i>Paraphlois incurva</i> -							
SHRUBS								SEDGES			
<i>dead Melaleuca acuminata</i> - <i>Halosarcia indica</i> - <i>"</i> <i>L. tenuis</i> (<i>halocnemoides ssp tenuis</i>) vsp <i>Leptocarpus ssp inclus</i> -				HERBS							
				<i>Cotula cotuloides</i> - <i>" coronopifolia</i> - <i>Triglochin mucronata</i> - <i>Cotula dubiipinnata</i> - <i>Senecio laetis</i> - <i>Spergula rubra salina</i> - <i>Senecio glossanthus</i> - <i>Sonchus oleraceus</i> - vsp <i>Apium annuum</i> - <i>Calandrinia sp</i> -				<i>calypttrata</i> -			

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 14
 DATE TRIP 8/9/98 RECORDERS GK/NG
 DATE TRIP 9/18/99 RECORDERS GK/NG/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location Dalwallinu West Rd / Martinjinni NR

Geographic Location Latitude 30 18 25.3 S Longitude 116 26 55.3 E Altitude 50
 GPS Accuracy 2.5
 Map Sheet _____

Photograph 6 Name NG Number 6

Topographic Position 50 44 6499 (Circle the correct response)
 Upland 5647082
 Upper slope
 Midslope
 Lower slope
 Valley
 Washline

2. SITE DATA Circle the correct response

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

Surface Soil Loam/clay Depth to Rock ? 30cm Colour brown
 (day) mottled clay - pink

Exposed Rock type NONE % surface cover _____ size range _____

Litter 10 % surface cover _____ Depth (cm) 2-3cm

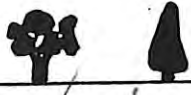
Bare Ground 20 % surface cover _____ heplo 70cm

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

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 (%)			Dead		
DOMINANT SPECIES			Mel. lateralis		

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					30-50
DOMINANT SPECIES					Halosarcia halocn

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-20	30-70			
DOMINANT SPECIES	stipa	catula			

4. VEGETATION CONDITION

Comments

salt/waterlogged

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

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

SITE No Wubin 14 Record on Sheet 1 • Column 1 plant name

Date 8-9-1998

9-4-1999 • Column 3 flowering time- TICK if species flowering

SITE No Wubin 14 Record on Sheet 1 • Column 1 plant name

Date 8-9-1998

- 9-4-1999 • 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

127) *Stipa* sp. from woodshed

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 15

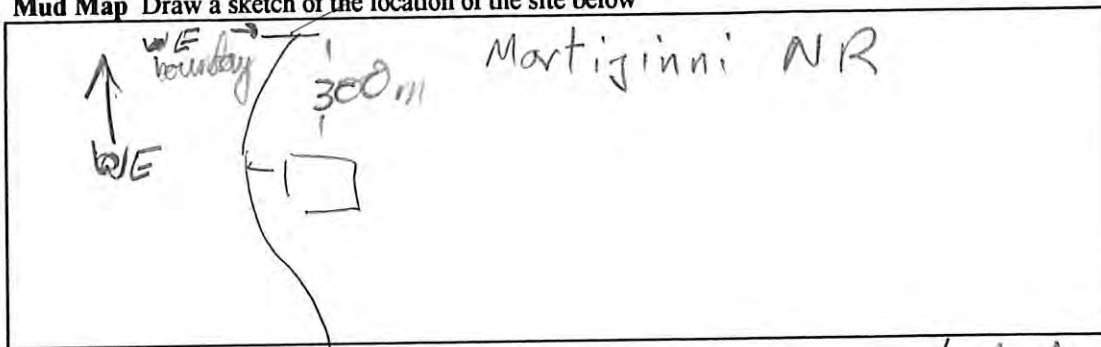
DATE TRIP 8/8/1998 RECORDERS NG/GK

DATE TRIP 9/8/1999 RECORDERS NG/GK/AN

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location Dalwallinu West Rd / Martiginni NR.

Geographic Location Latitude 30 17 59.0 S Longitude 116 27 42.5 E Altitude _____
GPS Accuracy _____
Map Sheet _____

Photograph Name NG Number 9109

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

2. SITE DATA Circle the correct response

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

Surface Soil yellow Depth to Rock 50cm Colour sand

Exposed Rock type laterite % surface cover 1-5 size range 0-10cm

Litter 30/40 % surface cover twigs/lvs Depth (cm) 2-5

Bare Ground 30/50 % surface cover

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

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 (%)					Euc. pyramidalis 2-10
DOMINANT SPECIES					
				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30			2-10	1-10
DOMINANT SPECIES	Alloc. Camp Petro. shuttleworthii Actino. arn			Isop. brevif Dryandra	Comesp. scop
	GRASSES		HERBS	SEDGES	over 0.5m
LIFE FORM					
COVER CLASS (%)	<1		<1	<1	<1
DOMINANT SPECIES	Newcastle				Ecdicotea

4. VEGETATION CONDITION

Comments

excellent

56647861

5. SPECIES PRESCENCE

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

SITE No Wubin 15

Record on Sheet

Date 8/9/1998

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

9/8/1999

pachychila-

[illegible]

Thryptomane racematos (vsr)
Thlyptomane? cuspidata (sterile)

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 16
 DATE TRIP 8/9/1998 RECORDERS NG/GK
 DATE TRIP 9/8/1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

*on Sth side of rd
160m W of WU13*

Road Location Nugadong - West road.

Geographic Location Latitude 30 04' 59" S Longitude 116 31 01.7 E Altitude _____
 GPS Accuracy _____
 Map Sheet _____

Photograph Name NG Number 17 11

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

2. SITE DATA Circle the correct response

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

Surface Soil loamy sandy Depth to Rock ? Colour orange

Exposed Rock type 0 % surface cover _____ size range _____

Litter 30/70 % surface cover 4 Depth (cm) 2-10 bk, twigs, 1 vs

Bare Ground 10/20 % surface cover (annuals 50-70)

no fix
 ANIG off
 map
 453600
 6662600

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 (%)		10-20			
DOMINANT SPECIES		<i>Euc. loxoph</i> (tree Mallee)			

SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	1		2-10		2-10
DOMINANT SPECIES	<i>Hakea preissii</i>		<i>Oleandra axill</i> <i>Acacia</i>		<i>Calytrix</i> <i>Rhag. drymm</i>

GRASSES		HERBS		SEDGES	
	over 0.5m		over 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	50-70			
DOMINANT SPECIES	<i>Stipa elegant</i>	<i>Conostylis acul</i> <i>Podoth. gnaph</i> <i>Lom. effusa</i>			

4. VEGETATION CONDITION

Comments

excellent

4. 5

Brachycome iberifolia -

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 17

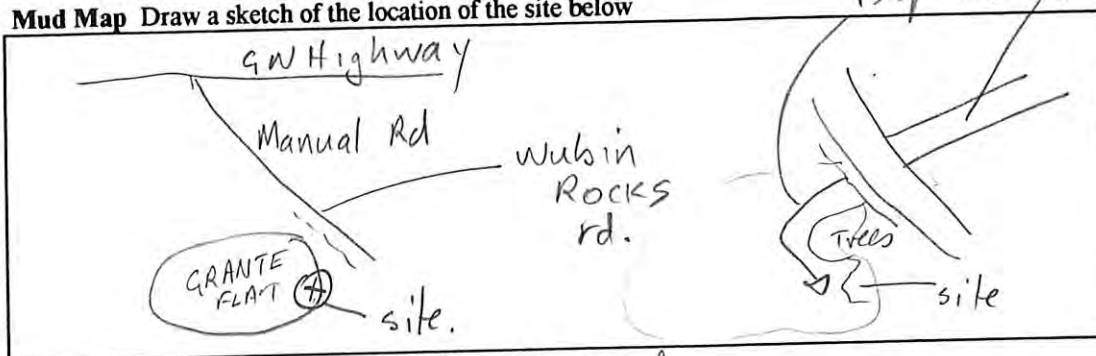
DATE TRIP 9/9/1998 RECORDERS NG/G/L

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

Wubin Rocks Res.

Geographic Location

Latitude 30° 03' 46.8" S Longitude 116° 40' 50.7" E Altitude
GPS
Map Sheet

Photograph

Name NG

Number 14

Topographic Position

Upland
Upper slope
Midslope

Lower slope
Valley
Washline

(Circle the correct response)

2. SITE DATA Circle the correct response

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

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

Exposed Rock type granite % surface cover 30/50 size range

Litter 2-10 % surface cover Depth (cm) 1cm

Bare Ground % surface cover 30/50

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

no fix
ANG off
map

469100
6674300

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 (%)					
DOMINANT SPECIES					

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2 - 10	30 - 50			
DOMINANT SPECIES	<i>Vulpia myuros</i> <i>Trifolium</i>	<i>Borja nitida</i> <i>Borja constricta</i>			

4. VEGETATION CONDITION

Comments

very good

J 6674281

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

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

SITE No WUBIN 17

Record on Sheet

Date 9-9-1998

- 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
								✓ Arthrop. preissii ✓			
								✓ Cuscuta epithymum ✓	vsf		
								✓ Gaeposis Lemaria barkittii ✓	(NSP)		
								✓ Isotopsis graminif ✓			
								✓ Velleia cyclo ✓			
								✓ Ethonoceph pseudovax ✓	vsf		
MALLEES								✓ Waitzia acumin ✓			
								✓ Hyalospermum glutinosum glutinos 9/			
				GRASSES				Ophioglossum coriac ✓			
				✓ Vulpia myuros ✓				Thysanotus spreckii ✓			
				✓ Tripogon loliformis ✓				✓ Trigonochin calcitrapa incurv ✓			
SHRUBS				✓ Pentaschistis jairoides ✓				Osteosperm clandest ✓			
				? Stipa ✓				Lauwenciella daven p ✓			
				Arauc coryophyll ✓				SEDGES			
								✓ Schizanthus nanus ✓			
								Isolepis setiformis ✓	9/8		
								✓ Rhodanthe chloro splend rosea ✓	VSF		
				HERBS				Velleia rosea ✓			
				Bryna nitida ✓				Erodium cygnorum ✓			
				" constricta ✓				Brachycome iberidif ✓			
				✓ Drosera bulbosa ✓				Quinetia urvillei ✓			
				" menziesii ✓				Blennosp drumm ✓			
				✓ Prasophyllum macrostachgracile ✓				Actinoble uligin ✓			
				Thelymitra antennif ✓				Gilbertia tenuif ✓			
				Hypochaeris glabra ✓				Keratogyne obionoid ✓			
				Drosera glandulig ✓				Gnephosis = Myrio aphidur hys ✓	VSF		
				Trachymene cyanop ✓				Goodenia (but) herardiana ✓			
				✓ Silox (Rutidosia) multiflora ✓	vsf			Crossula ✓			
				Podolepis lessonii ✓				Arthrop. curvipes ✓			
				✓ Calandrinia calyptata ✓	VSF			Millotia ✓			
				✓ Rhodanthe ? nana spicata ✓							

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 18
 DATE TRIP 9/9/1998 RECORDERS NG/GK
 DATE TRIP 10/8/1999 RECORDERS NS/SH/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

2.9km from WU09 towards WUBIN

Road Location Grt N. Highway / UCL

Geographic Location Latitude 29 51 01.2 S Longitude 116 56 13.1 E Altitude 493300
 GPS Accuracy 6696400
 Map Sheet

Photograph Name NG Number 19

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

2. SITE DATA Circle the correct response

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

Surface Soil loamy sand Depth to Rock ? Colour red-brown

Exposed Rock type 0 % surface cover _____ size range _____

Litter twigs, stems % surface cover 10/30 Depth (cm) 2-20

Bare Ground % surface cover 30/70

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

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES					
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		20-30			
DOMINANT SPECIES		Callitris preissii			
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10			2-10	
DOMINANT SPECIES	Hakea preissii Freycinetia Exocarpus sp			Ac. tetrag Olearia	
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	1-2%	30/70			
DOMINANT SPECIES	Stipa	Lawrencella Podotrocha			

4. VEGETATION CONDITION

Comments

excellent

2. 2

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

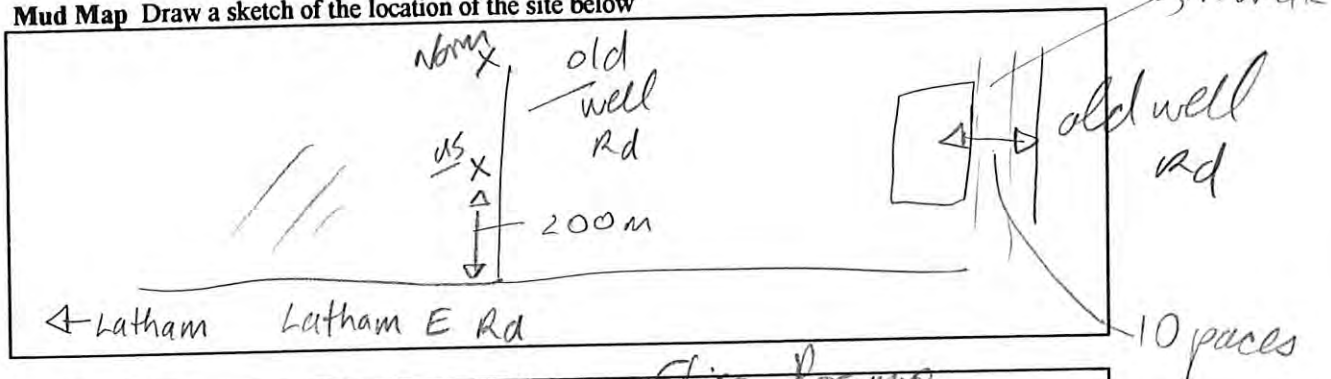
✓ Scholium filifolia - filifolia

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA Wubin SITE NUMBER 19
 DATE TRIP 9/9/98 RECORDERS NG/GK
 DATE TRIP 10-8-99 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location Oldwell Rd Shire Reserve
29°44'38.7" 116°33'39.5"

Geographic Location Latitude 2.7 S Longitude 116.561 E Altitude 50
 GPS Accuracy 50
 Map Sheet 50: 457547 J 6701479

Photograph Name _____ Number NG 21

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

2. SITE DATA Circle the correct response

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

Surface Soil sand Depth to Rock _____ Colour orange-yellow

Exposed Rock type _____ % surface cover _____ size range _____

Litter 30/70 % surface cover twigs, lvs Depth (cm) 2-5

Bare Ground _____ % surface cover 2-10

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

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

3. VEGETATION STRUCTURE AND COVER

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

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

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

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	30/50	10-20			
DOMINANT SPECIES	<i>Alloc. acutiv</i>	<i>Acacia</i> <i>Conothamnus</i> <i>Thrypt aust</i>			<i>Hibbertia</i>

GRASSES		HERBS		SEDGES		SEDGES	
				over 0.5m		under 0.5m	
LIFE FORM							
COVER CLASS (%)	12	2-10					
DOMINANT SPECIES							

4. VEGETATION CONDITION

Comments

excellent

200 m N Xtn Latham E Rd an old

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

Wells Rd

5. SPECIES PRESCENCE

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

SITE No Wubin 19

Record on Sheet

- Column 1 plant name

- Column 2 plant number

• Column 3 flowering time- TICK if species flowering

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

Date 9-9-98

10-8-1999

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
MALLEES											
				GRASSES							
SHRUBS											
<i>Allocas acutivalv</i>											
<i>Acarua aff. andrewsii</i>								SEDGES			
<i>Hibbertia arcuata</i> vsp											
<i>Baeckea Astatea heteractyl</i>				<i>Cyathochaeta</i> sp. Worgan Hills				<i>Arthropodium capillipes</i> 10/8			
<i>Melaleuca uncinata</i> vsp								<i>Trachym. cyanopet</i> 10/8			
<i>Thryptom austral</i>				HERBS				<i>Stipa</i> 10/8			
<i>Aakea francisiana</i>				<i>Waitzia citrina</i>							
<i>Conothamnus / Mel</i>				<i>Blennospora drumm</i>							
<i>Melaleuca fabri</i>				<i>Lewinlibok stipitat</i>							
<i>Acacia nigropilosa</i> var latifolia				<i>Trachym ornata</i>							
				<i>Hypoch glabra</i>							
				<i>Geratogyne obion</i>							
				<i>Thysanot pat/mang</i>							
<i>Acacia heterocarpa</i> ssp prostrata 9/9				<i>Crassula colorata</i>							
				<i>Blennosp drumm</i>							
				<i>Arctotheca calend</i>							

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 20 (20)

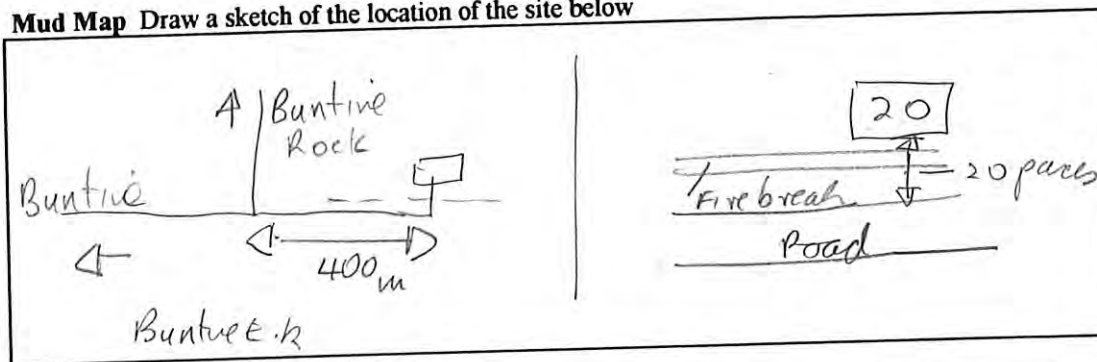
DATE TRIP 10/9/1998 RECORDERS NG/GK

DATE TRIP _____ RECORDERS _____

DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location Buntine E. Rd

Geographic Location Latitude 50° 45' 42" S Longitude 166° 83' 26" E Altitude 207
GPS Accuracy 2.7
Map Sheet

Photograph Name NG Number 27

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

2. SITE DATA Circle the correct response

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

Surface Soil sandy loam Depth to Rock > 1 m Colour yellow

Exposed Rock type ☐ % surface cover _____ size range _____

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

Bare Ground % surface cover 30/70

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

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			

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10				< 2
DOMINANT SPECIES	Acacia				Beyria lesch Platys. comm

GRASSES		HERBS		SEDGES	
	over 0.5m			over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	L2	20-30	20/30	2/10-	
DOMINANT SPECIES		Brya constricta	Ecdicoclea mono	Tetraria interocarpa Lepidosperm viscid	

4. VEGETATION CONDITION

Comments

excellent

Mallee - 5m

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

Smooth grey bark.
glaucous lvs

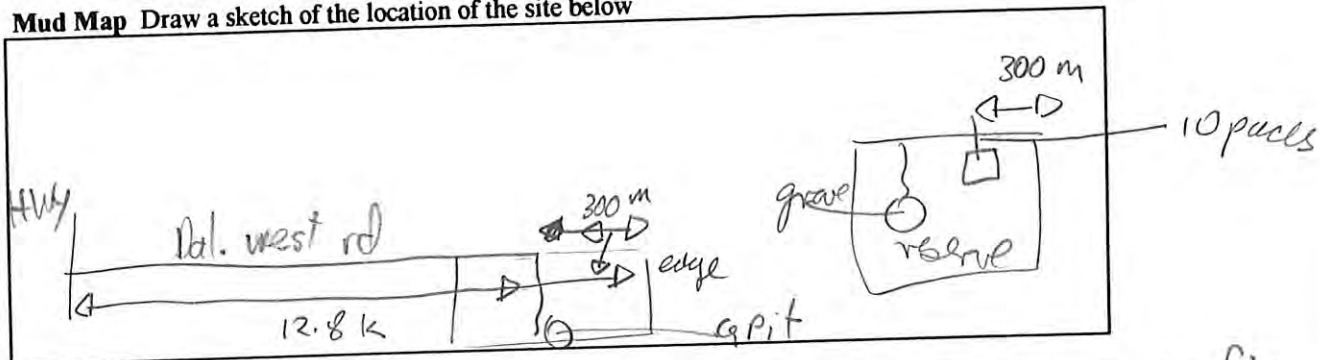
• Column 4 Identification check																		
TREES			No	FI	ID	SHRUBS (cont.)			No	FI	ID	HERBS (cont.)			No	FI	ID	
													Chaenaxeros	limbriata				
													Hydrocotyle	trilicarpa			vsp	
MALLEES																		
Eucalyptus stowardii																		

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 21
 DATE TRIP 10/9/1998 RECORDERS NG/GK
 DATE TRIP 8/1999 RECORDERS NG/GK/AW
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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



Road Location Dalwallinu West Rd

Geographic Location Shire Reserve Latitude 30°17'17.1" S Longitude 116°31'37.9" E Altitude _____
 GPS Accuracy _____
 Map Sheet _____

Photograph Name NG Number 28

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

2. SITE DATA Circle the correct response

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

Surface Soil sand Depth to Rock > 2 m Colour yellow

Exposed Rock type 0 % surface cover _____ size range _____

Litter 10/30 % surface cover 10/30 Depth (cm) 2 cm

Bare Ground _____ % surface cover 30/50

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

no fix
 AMG off
 map
 454900
 6649400

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 (%)					10/30
DOMINANT SPECIES					<i>Euc. speciosa</i>

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)			2%		
DOMINANT SPECIES			<i>Oleonia axill</i>		

GRASSES		HERBS		SEDGES	
	over 0.5m		over 0.5m		under 0.5m
LIFE FORM					
COVER CLASS (%)	20/30	30/50			10
DOMINANT SPECIES	<i>Plectrochne</i> <i>Amphipogon</i>	<i>Brachycome</i>			<i>Mesomelaena styg</i>

4. VEGETATION CONDITION

Comments

excellent

120x2 game Mallee, Sun

5. SPECIES PRESCENCE

SITE No Wubin 21

Date 10-9-1998

9 48 / 1999

Record on Sheet

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

basal 30 cm bark - rough
grey / rest smooth grey.

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
/ Euc.								✓ Calandrinia calyptata (pink)			vsp
								Caladenia varians			
								" integra			vsp
								✓ Vellera cynodactylifolia			
								waitzia lacuminata			
								Brachycome iberidifolia			
MALLEES								Parranthera microphylla			
hypochlamydeia ssp								✓ Calandrinia (white)			granu lib.
hypochlamydeia vsp ✓				GRASSES				Crassula colorata			
				Electrochne Triodia longipala				✓ Blennospora drummondii			
				Stipa elegantissima				9/8 Lupinus angustifolius			
				" compressa				4/8 Anagallis arvensis			
SHRUBS				" trichophylla				Trachymene ceratocarpa			
Olearia axillaris semic				Vulpia myuros				SEDGES			
Opuntia sparmacoe				stipa pycnostachya 9/8				Eedeoidea monostachya			
Cassytha glabella				Avena barbata 9/8				Schoenus ? latitans			
Halgahia								✓ Mersonelaena preussii			vsp
								Lepidochloa chaetochaeta			
				HERBS				Lepidosperma tenue			
				Ursinia anthemoides				" angustifolia			
				✓ Podolepis canescens				✓ Schoenus nanius			
				Brachycome iberidifolia				Desmodium asper 9/8			
				Goodenia berardiana							
				Trachymene cyanoptera							
				Podotrichum angustifolium							
				" anaphalodes							
				✓ Hypochaeris glabra							
				Wahlenbergia preussii							
				Lobelia							
				Podolepis lesonii							
				Goodenia berardiana							
				Trachymene ceratocarpa							

ADD Amplify to
from worksheet.

BUSHLAND PLANT SURVEY RECORDING SHEET 1 - use pencil only

BUSHLAND AREA WUBIN SITE NUMBER 22
 DATE TRIP 10/9/98 RECORDERS NG/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____

1. LOCATION of the QUADRAT

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

Road Location Dambling W

Geographic Location Latitude 50 47 08.23 S Longitude 116 23 39.06 E Altitude
 GPS Accuracy 3.1
 Map Sheet

Photograph Name NG Number 29/30

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

2. SITE DATA Circle the correct response

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

Surface Soil sandy loam Depth to Rock > 2 m Colour grey-brown
over cream sandy loam

Exposed Rock type 0 % surface cover size range

Litter 2/10 % surface cover logs Depth (cm) 2-5

Bare Ground % surface cover 30/70

(annuals in spring)

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 (%)			2-10		30/50
DOMINANT SPECIES			Mel. latriflora (mostly dead)		Halos. halocn

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10/20	30/50			
DOMINANT SPECIES	Vulpia	Sarcob. laetus Cotula aust Mesembry. nodifl Pogonolepis			

4. VEGETATION CONDITION

Comments

very good

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE	
SITE No	Wubin 22
Date	10-9-1998

5. SPECIES PRESCENCE		Label each plant with plants number, site code, date and plant's name or working name if required
SITE No <u>Wubin 22</u>	Record on Sheet	• Column 1 plant name
Date <u>10-9-1998</u>		• Column 2 plant number
		• Column 3 flowering time- TICK if species flowering

5. SPECIES PRESCENCE	
SITE No	Wubin 22
Date	10-9-1998

5. SPECIES PRESCENCE		Label each plant
SITE No	Willbin 22	Record on Sheet
Date	10-9-1998	

- | 5. SPECIES PRESCENCE | | Label each plant with plants number, site code, date and plant's name or work |
|-------------------------|-----------------|---|
| SITE No <u>Wubin 22</u> | Record on Sheet | • Column 1 plant name |
| Date <u>10-9-1998</u> | | • Column 2 plant number |
| | | • Column 3 flowering time- TICK if species flowering |

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
							✓	<i>Calandrinia</i> (<i>white</i>)			
							✓	<i>Cotula cotuloides</i>			
								<i>Eriophorum Hyalochlamys globifera</i> (vsp)			
							✓	" <i>Triglochin</i> ~~sp.~~ minutis			(vsp)
							✓	" <i>Centropus humillima</i>			(vsp)
							✓	" <i>Atriplex spangiosa holocarpa</i>			(vsp)
MALLEES							✓	<i>Zygophyllum angustifolium</i>			(vsp)
				GRASSES							
				<i>Bromus japonicus</i>			vsp				
				<i>Bromus archatus</i>			✓	<i>Cassula exserta</i>			
				<i>Parapholis incurva</i>							
				<i>Vulpia myuros</i>			vsp				
SHRUBS				<i>Eragrostis pergracilis</i>							
<i>Halosarcia halocnemoides</i> (vsp)				<i>Lolium rigidum</i>				SEDGES			
<i>Melaleuca lateriflora</i>				<i>Bromus madritensis</i>							
<i>Halosarcia indica</i>				<i>Hordeum leporinum</i>			vsp				
<i>Corobrotus modestus</i>				<i>glaucum</i>							
<i>Diphyma clavellatum</i>				<i>Parapholis incurvum</i>							
<i>Sarcocolla praecox</i> vsp				HERBS							
				<i>Senecio laetus ssp dissectifolius</i> (vsp)							
				<i>Sonchus oleraceus</i>							
				<i>Polygonolepis stricta</i>							
				<i>Triglochin mucronata</i>							
				<i>Senecio glossanthus</i>							
				<i>Grossula colorata</i>							
				<i>Mesembryanth nodifl</i>							
				<i>Arctotheca calendula</i>							
				<i>Hypochaeris glabra</i>							
				<i>Cotula australis</i>				<i>bipinnata</i>			
				" <i>Calandrinia tinctoria evanescens</i> (vsp)							
				<i>Brachycome hederatifolia</i> (vsp)							
				<i>Erodium cicutarium</i>							
				<i>Naveum</i>							

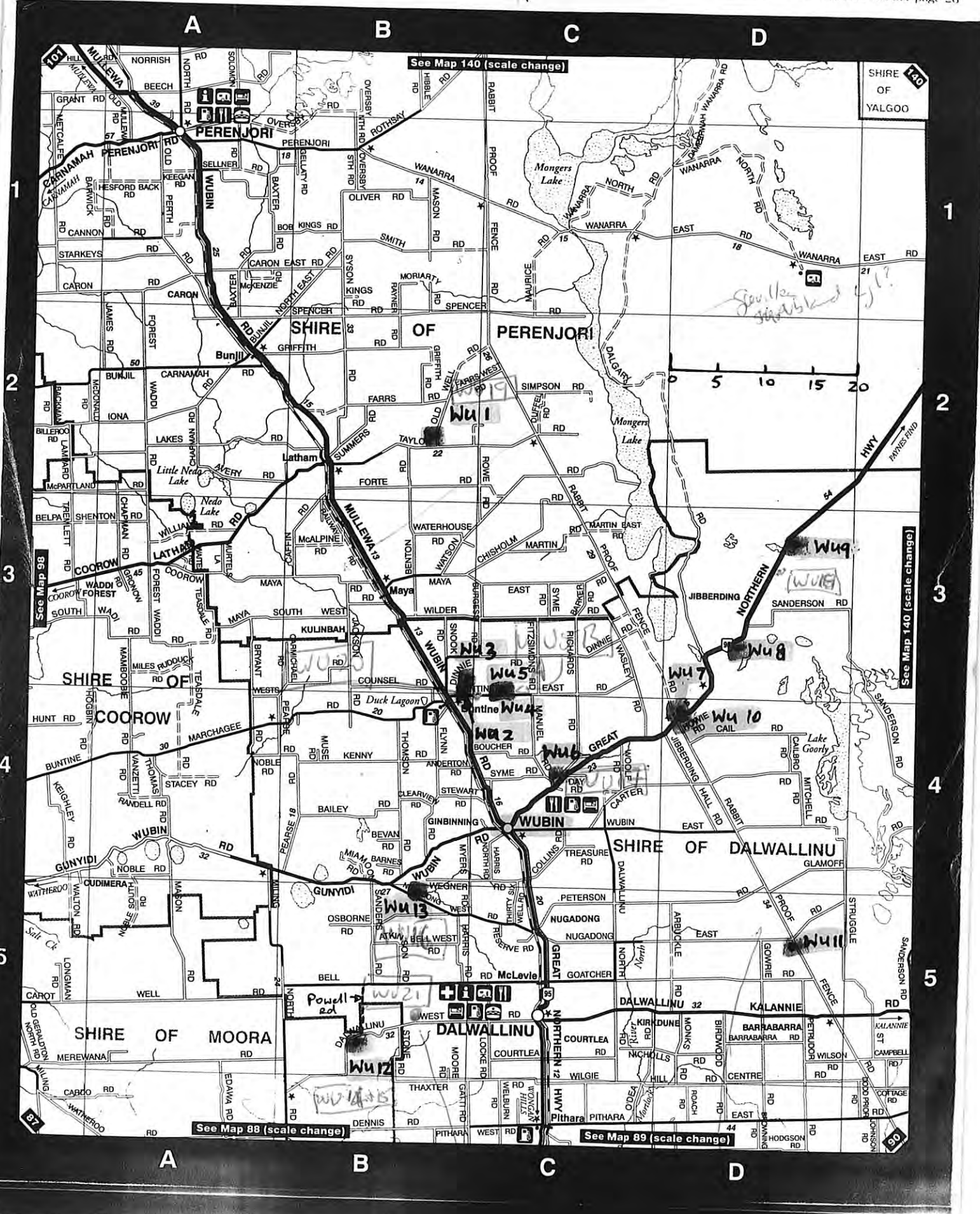
WHEN USING A PASSING LANE, KEEP LEFT

MAP 99



UNLESS OVERTAKING

Scale 1 : 500 000
(1cm = 5km)
For scale bar see page 26



WUBIN 22 Dambaringa Cool mallee V. 0. 110 T. 5

BAND 1 WUBIN STRIKES AREA

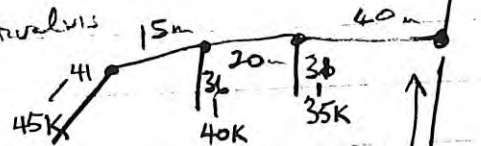
11 km E of Latham Shore Reserve

C2a (Top) Upper reaches of valley floor
 = York surface
 below granite + latente

York Glen

Jam
 Casuarina acutivalvis
 Herbs

Red loam



31K - 45K

WU 1

29° 44' 09.9"S
 116° 33' 42.9"E

Pdop 3.0

1.2 km

WUBIN 19

Melaleuca
 Acacia thicket
 Yellow sand

Latham

Taylor Rd

Approx 11.7 km

bitumen out 5.5 km

BAND 1

Wubin survey area

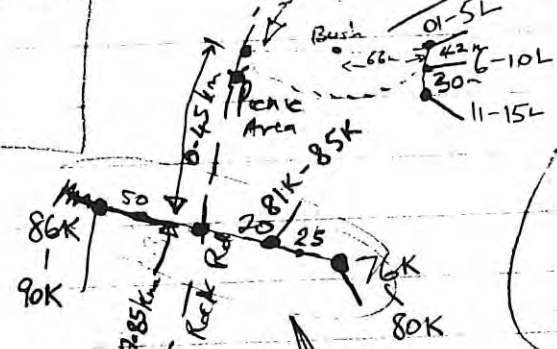
BUNTINE N.R.
A ↑ 26837

Granite Complex

Shrub: Jam, Allocasuarina campestris
Gahnia, Borya constricta
exposed granite
Course

Buntine Trg

rock sheet



N
↑
29° 58' 16.5" S
116° 35' 05.2" E
Pdp 2.3

OIL-15L
WU3

Buntine

Wubin - Mulleer

WU

76K-90K

Need 50cm
Aluminium
flywire

Wubin

York Surface

Reddish loam c
granite at
shallow
depth

WU2

Eloxophloeaba
Jam

Acacia ^{erythraea} ~~sp.~~

Alyxia buxifolia

Erremophila ? ~~decapoda~~

Tussock grass

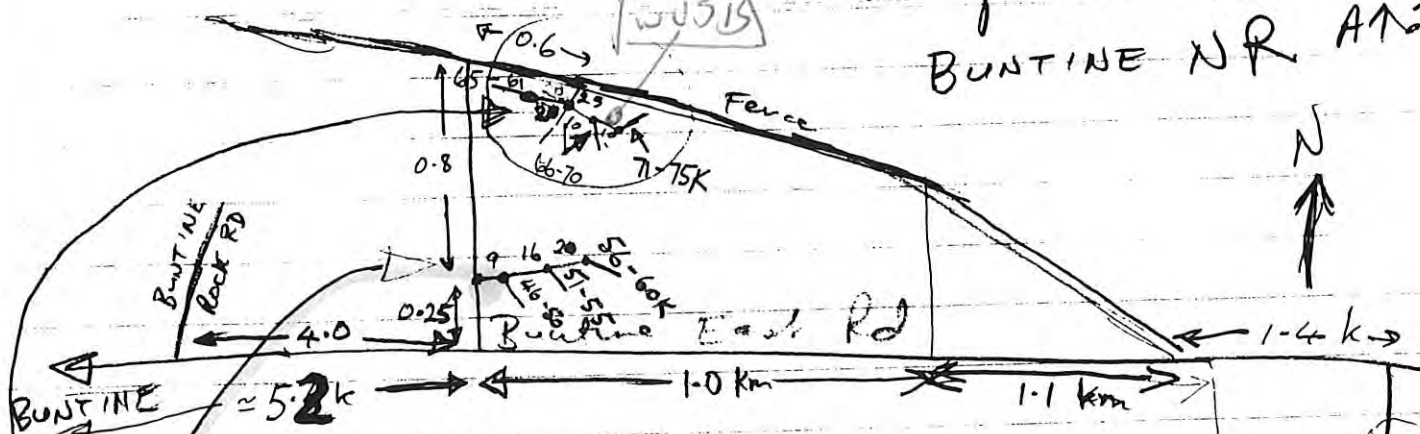
29° 58' 28.8" S

116° 34' 59.3" E

Pdp 1.9

BAND 1

BUNTINE NR A12683;



$C_{zs} (= Q_s)$ (high level)

Scrub

45K - 60K

Wu 4

Albizia casuarina acutivalva

~~Euc. giffinzi~~ (malice)

Hakea erecta

Hakea erecta 58' 45.8" S
Melaleuca cordata 29 2' 25" E

Melaleuca cordata 29 58 45.8 5

M. scabra 116° 37' 17.5 E

Isopogon

Echidocolia Pwp 2.6

C29 = clayey gravel high in landscape
(emergent)

Scrub

Mallee: Euc. of redunca

Allocastrum acutivalvis

Melaleuca undulata

M. agathesmodon

Acacia? stereophylla

29° 58' 37.9"

 $116^{\circ} 34' 27.5'' \text{E}$
$$P_{\text{drop}} = 2.2$$

W4 5 A

61K - 75K

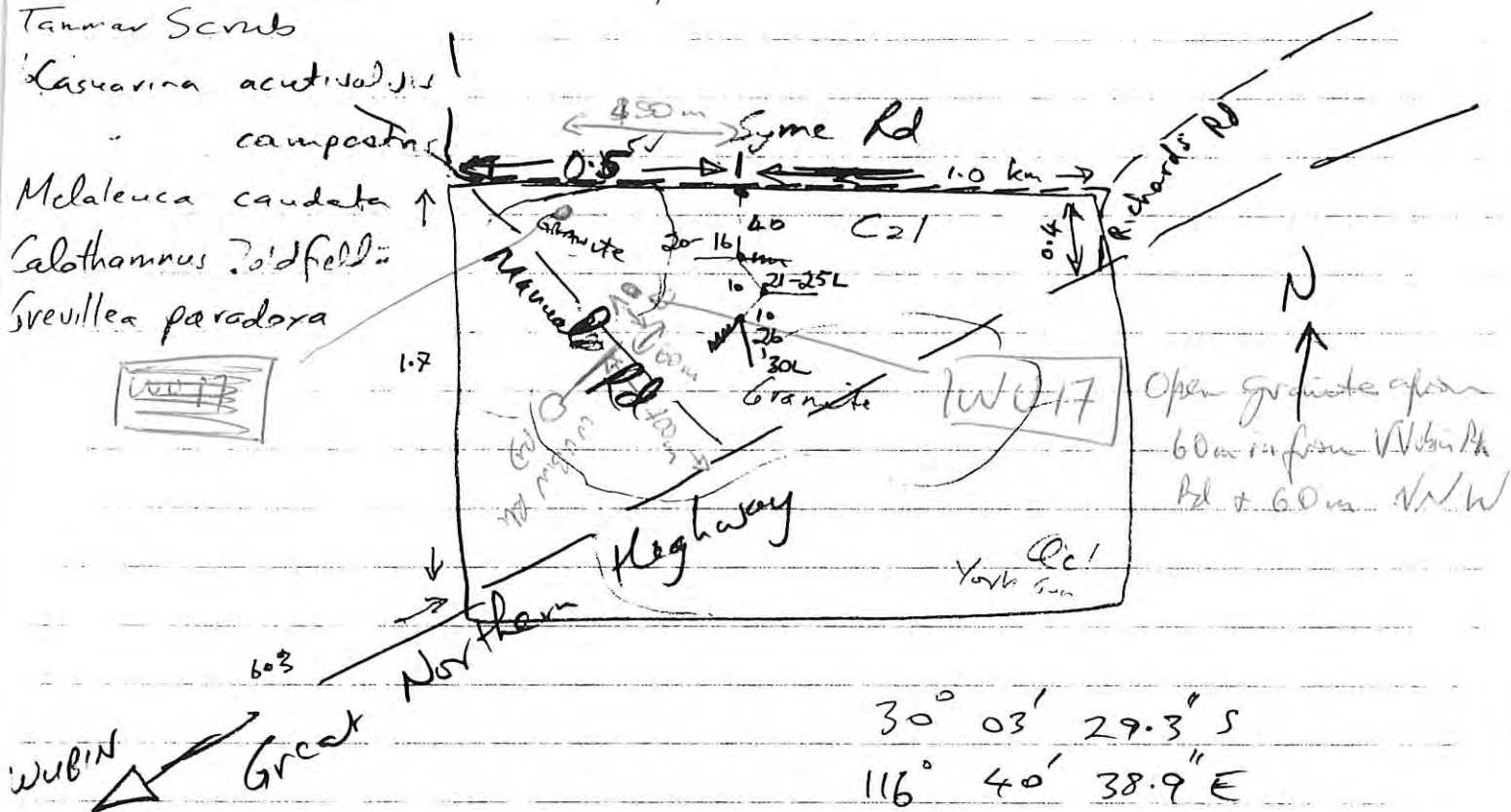
7.5 km NE of Wubin Wubin Rocks Reserve

Tamar Scrub

campesino

Calothamnus Goldfield

Grevillea paradoxa



30° 03' 29.3" S

116° 40' 38.9" E

Pdop 3.2

Wu 6

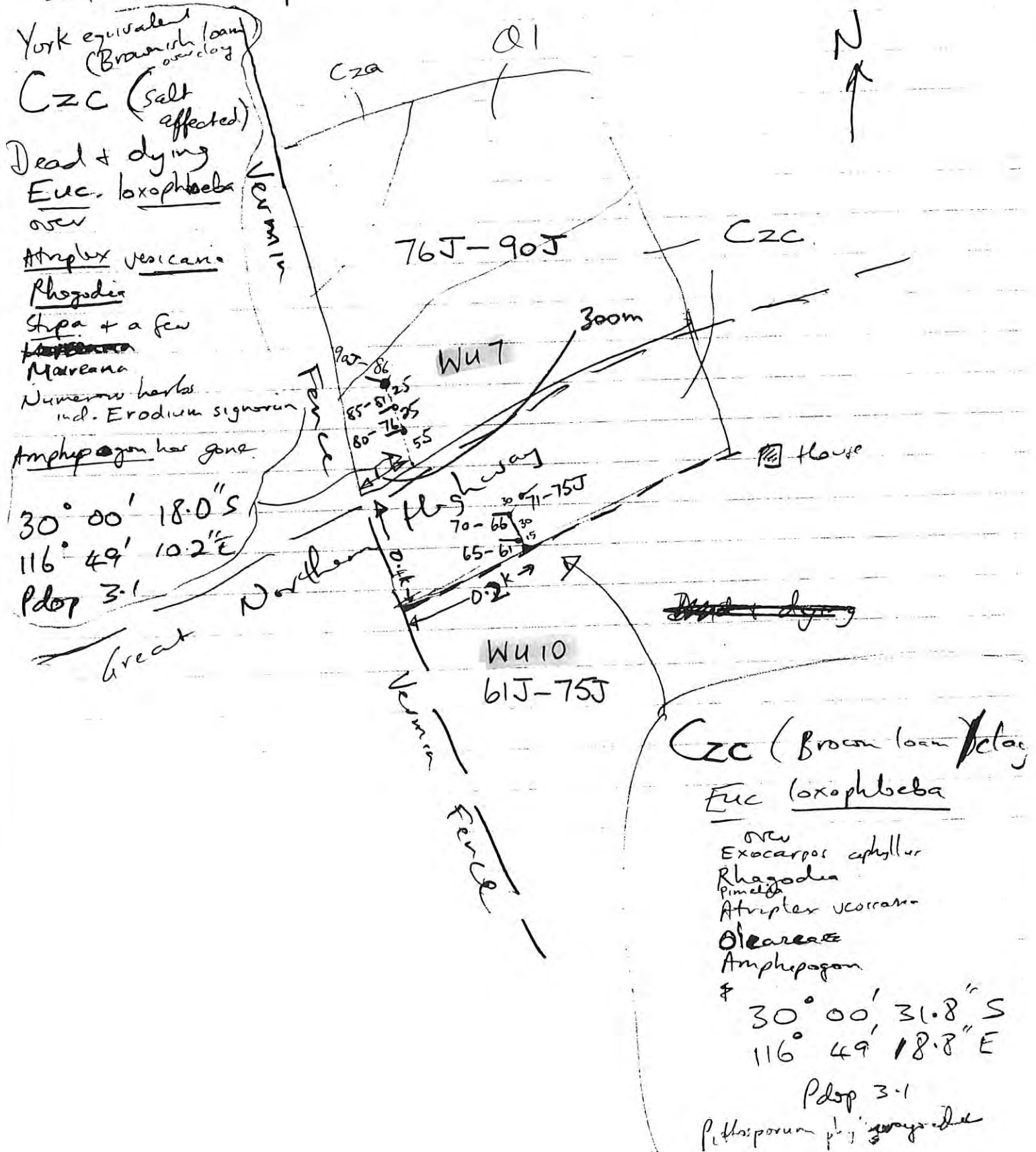
16L-30L

Need $\frac{1}{2}$ m aluminum flywire
on first line.

BAND 1 WUBIN SURVEY AREA
24 km NE of Wubin Jibberding NR C9935

24 km NE of Wubin

J. L. Harding NR C9935



BAND 1

WUBIN SURVEY AREA

≈ 30 km NE of WUBIN

Vacant Crown Land
13.0 km ~~from~~ ^{E of} W boundary
of Jilberdly NR
along Great
Northern
Highway

Parking Bay

Vermont fence

0.5 km
OSH

10H

11H-16H

Rabbit Proof fence (Wu 10, 7)
to CAR PARK = 11.5 km

Lake Goorly to Quad along fence
= 700 m.

N
↑

Q1 (gypsum heave)

(samphire)

Massive area

Halosarcia + herbs

Wu 8

29° 56' 08.1" S

116° 53' 09.4" E

Pdip 2.8

QH - 15H

change "H" to "K"
in the pits in the
field

Band 1

WUBIN SURVEY AREA ~50 km NE of Wubin

Reddish loam
over clay

CZC: up
slope a bit
from the York Gum floor.

Salmon Gum
Wood on
rise

E salmonophora

E loxophleba

Acacia spp Tall shrubs

Acacia acutia

Atriplex vesicaria

Stipa elegantissima

Dodonea viscosa

Acacia erinacea

29° 49' 49.7" S

116° 57' 19.0" E

Pdop 3.4

VCL

Drain
under
road

2.9 km
9.9 km

Drain

WUBIN

cellular on sandy valley bottom

WU 9. 16H - 30H

VCL

change letter "H" in
pits to "K"

Lake Goorly

14.0 km from WU 8 to WU 9

BAND 1

Wubin Survey Area

Shire rear on ^{West end!} Snake Gully NR.

33 km SE of Wubin

Qa, perched on lateritic upland — Clay

Eucalyptus salubris

Woodland over

Santalum acuminatum

~~Acacia~~ shrubs

Epemophila ? alternifolia

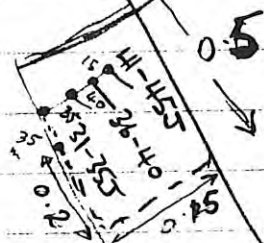
Metaleuca pauciflora
tree substratum

Lichens & leaf letter patches

[Fragment left uncleared
on edge of farm]

Nugadong East Rd

N
↑



Synthetic
Gully
Rock

30° 13' 04.6" S
116° 56' 36.2" E
Depth = 2.6

WU 11
315-455

WUBIN ~~Survey~~ ^{Nica} ~ 20 km W of Jalwalanu
Martinjinni N R ↑ 2736

Qs

Yellow sand dune/slope

Banksia Victoricae

Xylomelum augustifolium

Eucalyptus pyriformes

Actinostichus oregonus

Electrochemie

Echidnocolia

Grevillea ericoides

30° 18' 06.3" S
116° 29' 21.7" E

$$P_{\text{top}} = 2.3$$

WU 12

46L-60L

Ora ~~12~~

WUBIN SURVEY 18 km NW of Dalwalena $\uparrow$ 38401

Salt affected Drainage Floor

Samphire &
dead Metalauro.

$$30^{\circ} 10' 01.8''$$

116° 31' 16.4" E

$$P_{d \rightarrow p} = 2.2$$

W4 13

31L-45L

Pits left on dry ground
—all numbered.

Nugatong West Rd

CLAY
W050

GRANITE

UPPER
SLOPE
bun/gravel

UPPER
SLOPE
COALLOUTH

~~AD~~
~~AD~~
~~AD~~

YELLOW
SAND

VALLEY
BOTTOM

SANDHILLS

W02

W03

W017

W06.

W015

W05A

W01 - X014.

W011 - S006

W012

W018

W019.

W04

W013 - S/C

W021

W07(dry)

W09

W010

W016

W08

W013

W014

Note Maxine Lake: absent
Broadway absent
Woodlands much reduced