

Chol 5511 B501

ASTRIS Waller - ? ADT

Costal Bee ~~eventual~~?
thru no. of dis sep mag, etc

see dek sheet + over sheet

Good) coll. of artists.

Ans. Is Malkee
Is Adj

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

WK31

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS 1
 DATE TRIP 30/8/2000 RECORDERS WM/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

soil profile: clayey sand - brown, lateritic ^N pebbles
 20cm laterite - clay

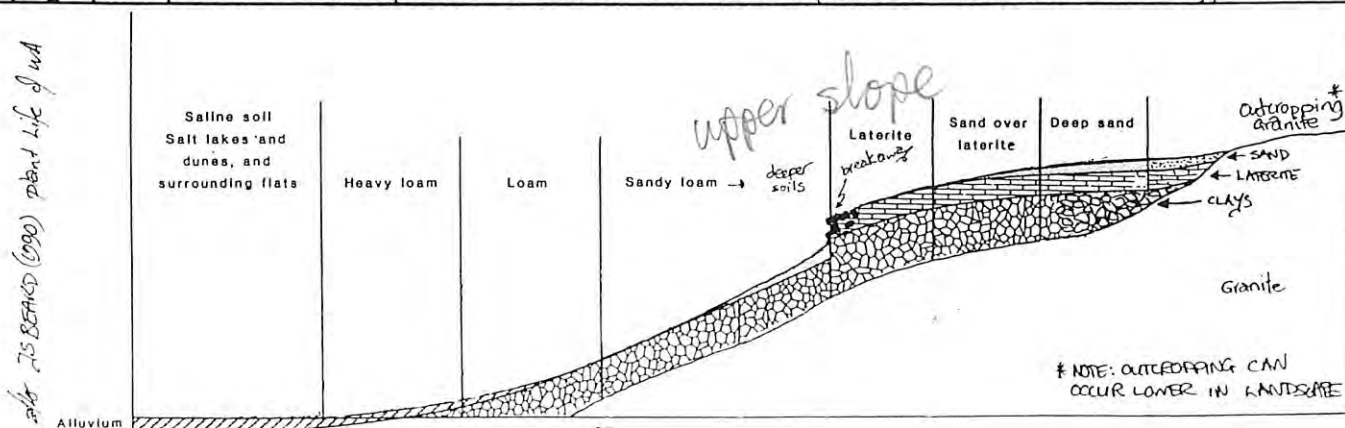
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____

Photograph _____ Photographer's Name _____ Photo No _____

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



2. SITE DATA Circle the correct response.

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

Surface Soil clay loam Colour brown
 Exposed rock type laterite % surface rocks 2-10

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

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

Litter lvs, bark, twigs % cover 70/90 Bare Ground 0 %cover
 Depth 2-10 cm

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

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below) and dominant species in each layer.					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES					
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		2-10		2-10	10-30
DOMINANT SPECIES		<i>Euc. astr</i>		<i>Euc. astr</i>	<i>Euc. cong</i> <i>II erubesc</i>
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	<i>Mel. uncin</i>			<i>Mel. hapl</i> <i>Gastr. porv</i>	
GRASSES		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	10-30	<1			<1
DOMINANT SPECIES	<i>Vulpia</i> <i>Anthr. cory</i>				

4. VEGETATION CONDITION

Comments

very good - excellent

WK31

BIRDBHISTLE RESERVE							
Site No.: 1	Date Assessed			Date Assessed			
Mm: Mallee over Melaleuca Heath	8-Jul-98			3/11/98			
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D
	* <i>Aira caryophyllea</i>				5	0.01	
BS001.06	<i>Austrodanthonia caespitosa</i>	10	0.1		10	0.1	
	<i>Austrostipa elegantissima</i>				50	0.1	
BS001.04	<i>Daviesia ?intricata</i>	30	0.2		30	0.2	
BS001.01	<i>Eucalyptus (stringens) -adj</i>	800	10		800	5	
BS001.02	<i>Eucalyptus conglobata phenax</i>	800	10		800	15	
BS001.10	<i>Hydrocotyle rugulosa</i>				10	0.01	
BS001.05	<i>Lepidosperma affinis resinosum brun</i>	20	0.5		20	0.5	
BS001.03	<i>Melaleuca haplantha</i>	100	25		100	25	
	<i>Melaleuca uncinata</i>	250	3		250	3	
BS001.08	<i>Pterostylis sanguinea</i>	8	0.05				
BS001.07	<i>Thysanotus patersonii</i>	1	0.01				
	<i>Wahlenbergia gracilentia</i>				10		0.01

Blennospora drummondii

Oxalis perennans

Lomandra micrantha micrantha

✓ collected *Euc. remophila* in site (Gullet
in 20x20)

✓ Has been redet to

E. thamnoides ssp *megista* (smaller stringers
close to *spadicea*)

Q. Grey is this in plot??
NOT

20x20 // *Euc. flocktoniae* ✓ flock

Euc. capillosa

// *Euc. ?* (whipstick, 4m, smth grey)
in wassata

WK32

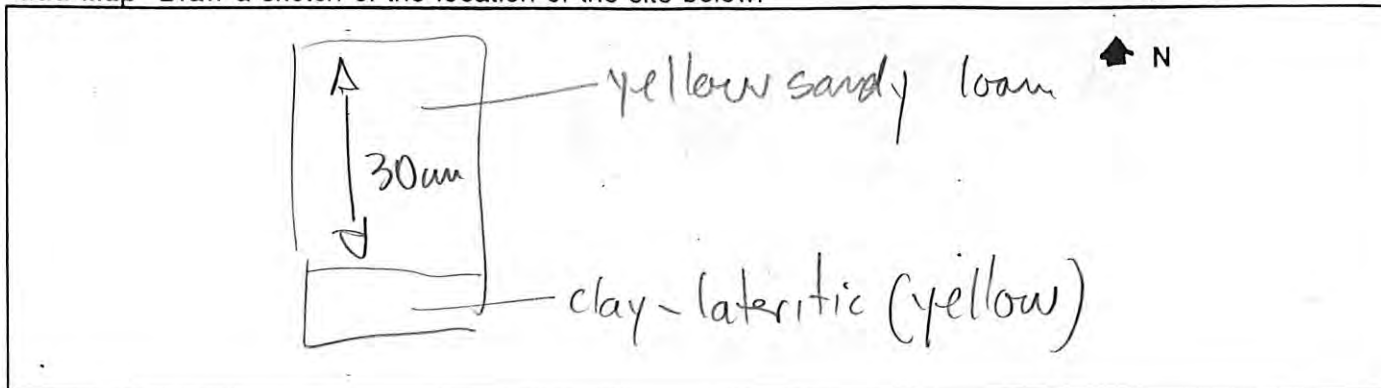
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS 02
 DATE TRIP 30/8/2000 RECORDERS WM/915
 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 _____

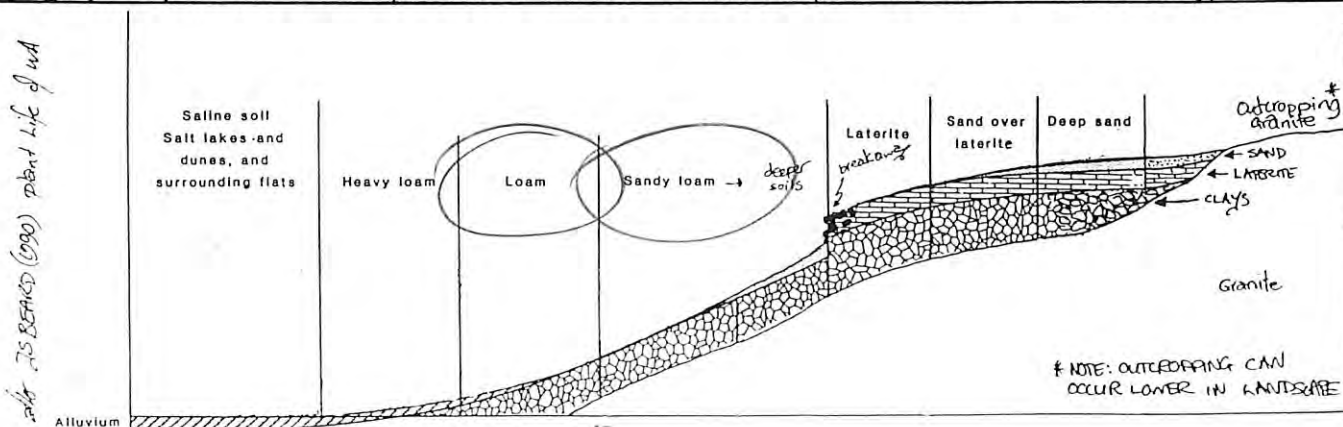
Reference Map _____

Photograph

Photographer's Name _____

Photo No _____

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



2. SITE DATA Circle the correct response.

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

Surface Soil yellow s clay Colour _____
 Exposed rock type _____ % surface _____

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

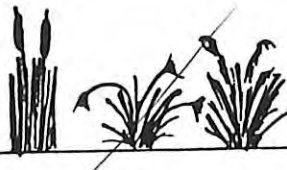
Drainage well mod poor depth water cm Wet all year winter/spring

Litter twigs VS % cover 30/70 Bare Ground 30/50 %cover _____
 Depth 5-20 cm

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

3. VEGETATION STRUCTURE AND COVER

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

	TREES			MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					10-30
DOMINANT SPECIES					Euc. pluricaulis ssp. pluricaulis
				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	~~Dry.~~	Dry. ornata Chaketrum		Dry. congeria	
	GRASSES		HERBS	SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-2		2-2		2-10
DOMINANT SPECIES					Lepidosperma vs

4. VEGETATION CONDITION

Comments

excellent

WK32

BIRDWHISTLE RESERVE							
Site No.: 2		Date Assessed			Date Assessed		
Md: Open Mallee over Dryandra Heath		8-Jul-98			3/11/98		
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D
BS001.06	<i>Austrodanthonia caespitosa</i>	10	0.1		10	0.1	
	<i>Baeckea crispiflora</i>				160	0.5	
BS002.11	<i>Billardiera</i> sp.	5	0.1		T	0.1	
	<i>Cassytha racemosa</i>				T		0.5
	<i>Chamaexeros</i> sp. <i>sera</i>				20	0.01	
	<i>Cryptandra</i> sp. (spiny)				40	1	0.25
BS002.12	<i>Daviesia cardiophylla</i>	30	1.1		50	1	
BS002.01	<i>Dryandra armata</i>	150	10	5	200	10	5
BS002.02	<i>Dryandra conferta</i>	50	8		50	8	
BS002.04	<i>Eucalyptus pluricaulis</i> subsp. <i>pluricaulis</i>	600	13	15	600	13	15
	<i>Hakea cygna</i> subsp. <i>cygna</i> <i>incrassata</i>				10	0.01	
BS002.15	<i>Hibbertia</i> <i>exasperata</i>	5	0.2		10	0.2	
	<i>Isopogon teretifolius</i> <i>Petrophile brevifolia</i>	40	0.4		40	0.4	
BS002.09	<i>Lepidobolus chaetocephalus</i>	10	0.1		10	0.1	
	<i>Lepidosperma tenue</i>				40	1	
BS002.05	<i>Lepidosperma viscidum</i>	40	7		40	7	
BS002.16	<i>Leptomeria preissiana</i> <i>Choretrum glomeratum</i>	100	2		100	2	
BS002.06	<i>Melaleuca platycalyx</i>	50	5	5	50	2	5
BS002.08	<i>Mesomelaena preissii</i>	30	1		30	1	
	<i>Neurachne alopecuroidea</i>				25	0.5	
	<i>Opercularia vaginata</i>				5	0.01	
BS002.17	<i>Petrophile circinata</i>	40	0.3		40	0.3	
BS002.13	<i>Pterostylis</i> (sp. - <i>rufa</i> complex)	15	0.01				
BS001.07	<i>Thysanotus patersonii</i>	1	0.01				
BS002.10	<i>Tricoryne tenella</i>	1	0.01				
	<i>Schæenus</i> sp (sterile)						
	<i>Euc. incrassata</i> (green lvs)						
	(whipstick Mallee, Sm, bark in long strips)						
	<i>Euc. gardneri</i> sp. <i>gardneri</i>						
	(Mallee smth grey bark on branches, 2m bark grey/brown stockling - flaking, lvs purplish, fls yellow)						
	<i>Dioscorea macrantha</i>						
	<i>Caladenia saccharata</i>						
	<i>Cryptandra Eucopogon</i> (VSP)						

grey in log
smth bark
Mallee
(coll)

WK33

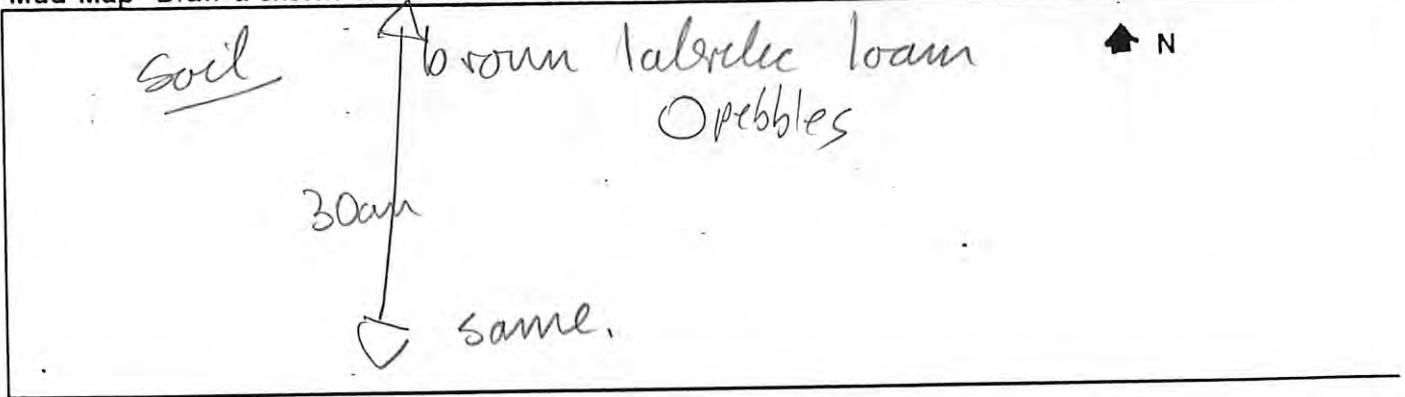
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS03
 DATE TRIP 30/8/2000 RECORDERS WM/gk
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

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1. LOCATION of the QUADRAT

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



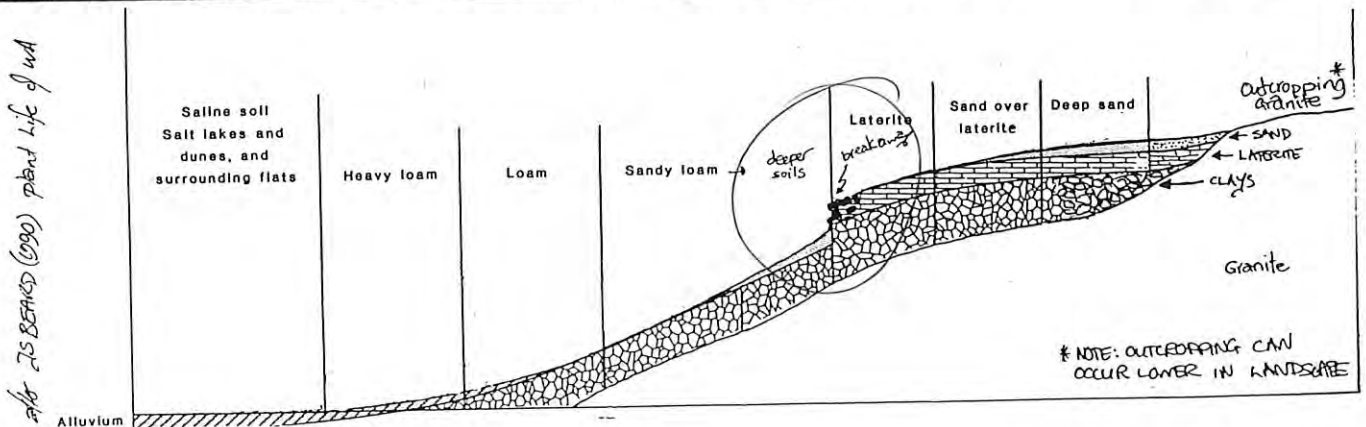
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____

Photograph Photographer's Name _____ Photo No _____

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



2. SITE DATA Circle the correct response.

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	E	<u>SE</u>	S	SW	W	NW
Surface Soil	lateritic loam								Colour	brown		
Exposed rock	type lateritic pebbles/rks % surface								2-10			
Sub-surface Soil	lateritic loam								Colour	brown		
Rock	type ?								depth to rock			
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	lvs, twigs, bark			% cover	290			Bare Ground	0%			
	Depth 2-5			cm								

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

3. VEGETATION STRUCTURE AND COVER

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

	TREES			MALLEES	
	over 15m	5 - 15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		> 70			
DOMINANT SPECIES		Eucalyptus Euc. gauduchii			

	SHRUBS			SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					< 2
DOMINANT SPECIES					Dodonaea, low S

	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	< 1	< 1			< 1
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

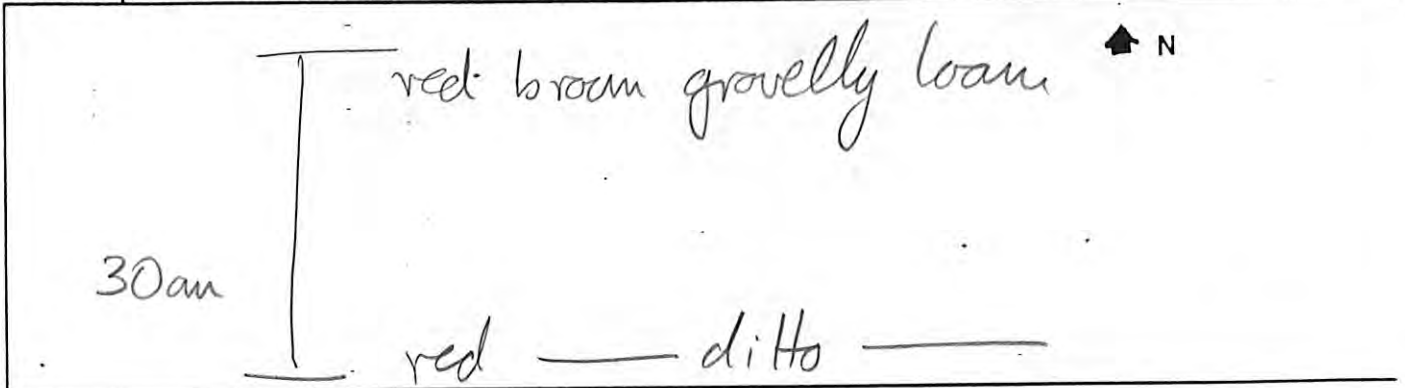
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS04
 DATE TRIP 30/8/2000 RECORDERS WM/gk
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

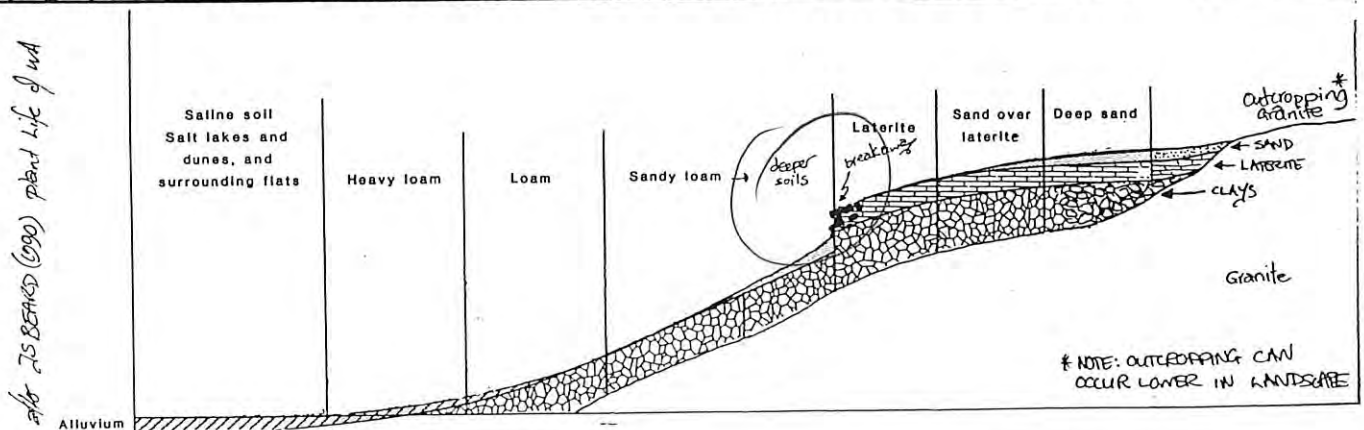


Road Location

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

Photograph Photographer's Name gk Photo No 36

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



2. SITE DATA Circle the correct response.

Slope flat gentle steep Aspect N NE E SE S SW W NW
 Surface Soil lateritic clay loam Colour red-brown
 Exposed rock type lateritic pebbles % surface 2%
 Sub-surface Soil clay Colour brown
 Rock type _____ depth to rock _____
 Drainage well mod poor depth water cm Wet all year winter/spring
 Litter 10g bark, twigs % cover >90 Bare Ground <10 %cover
 Depth 02-10 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.

	TREES			MALLEES		
	over 15m	5 - 15m	under 5m	over 8m	under 8m	
LIFE FORM						
COVER CLASS (%)	30-70	/	/	2-10	/	
DOMINANT SPECIES	<i>Euc. longico</i>			<i>Euc. pileata</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>Dodonaea bursar</i>	
	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m	
LIFE FORM				/		
COVER CLASS (%)	< 1	< 1	/		/	
DOMINANT SPECIES						

4. VEGETATION CONDITION

Comments

excellent

WK 34

BIRDWHISTLE RESERVE							
Site No.: 4				Date Assessed			Date Assessed
El: Eucalyptus longicornis woodland				8-Jul-98			3/11/98
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D
	<i>Acacia erinacea</i>	15	0.5		15	0.5	✓
	<i>Austrodanthonia caespitosa</i>				15	0.1	
BS014.03	<i>Austrostipa pycnostachya</i>				20	0.01	
	<i>Dodonaea bursariifolia</i>	40	0.5		40	0.5	✓
BS003.01a	<i>Eucalyptus (calycogona)</i> ? <i>pitcairnia phaner</i>	1500	3		1500	3	✓
	<i>Eucalyptus longicornis</i>	2300	45		2300	45	✓
BS004.01	<i>Lomandra effusa</i>	15	0.01		15	0.01	✓
BS004.02	<i>Poaceae</i> sp.	10	0.03				
	<i>Lepidosperma tenue</i>						
	<i>Westringia rigida</i>						

2

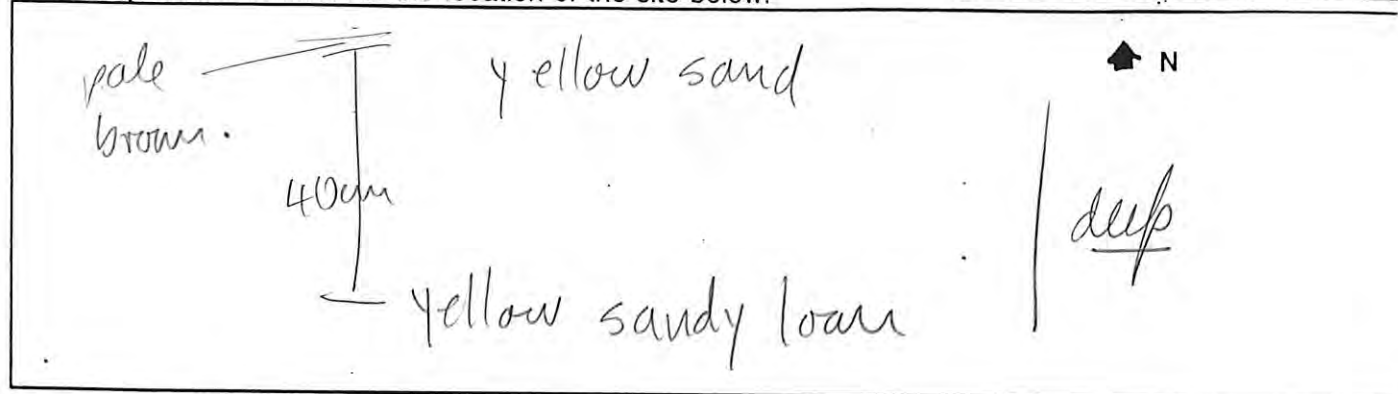
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS 05
 DATE TRIP 30/8/2000 RECORDERS WM/gk
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

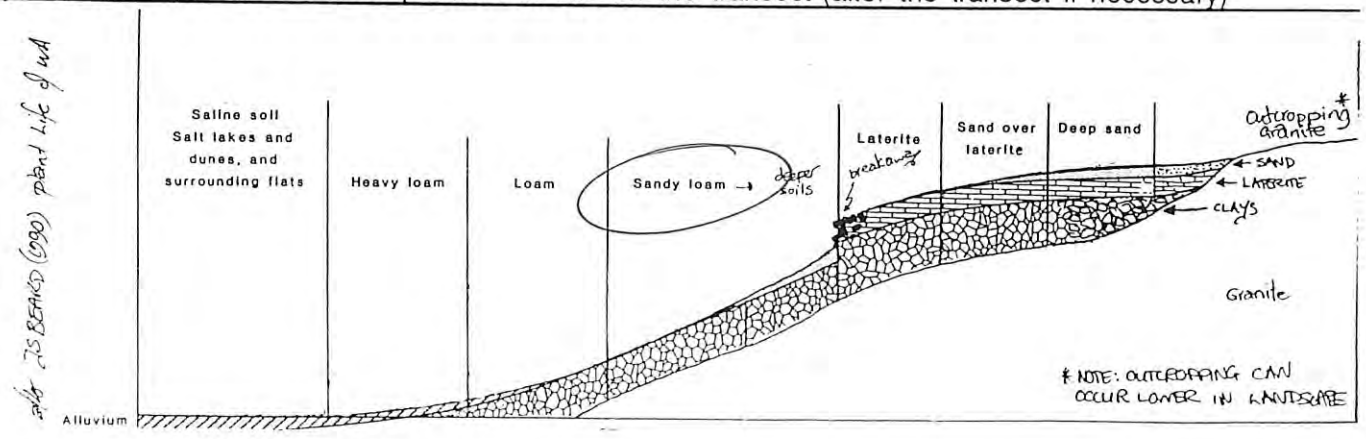


Road Location

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

Photograph _____ Photographer's Name _____ Photo No _____

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



2. SITE DATA Circle the correct response.

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	E	<u>SE</u>	S	SW	W	NW
Surface Soil	<u>deep yellow sand</u>							Colour				
Exposed rock	type							% surface				
Sub-surface Soil	<u>yellow loamy sand</u>							Colour				
Rock	type							depth to rock	<u>> 2m</u>			
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter	<u>twigs, lvs</u>			% cover	<u>30/70</u>			Bare Ground	<u>30/50</u>			% cover
	Depth <u>0-2-10</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.

For each layer record - appropriate life form, cover class (see below) and dominant species					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES					
	over 15m	5-15m	under 5m	MALLEES over 8m	under 8m
LIFE FORM					
COVER CLASS (%)					
DOMINANT SPECIES					
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1-0.5m	SHRUBS under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	10-30			10-30
DOMINANT SPECIES	Xanth. drumm	Banks sphario Dryandra arm			Dry conf Eriomaca paucif
GRASSES					
		HERBS	SEDGES	over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2	2			2-10
DOMINANT SPECIES		mixed			Mesom preiss

4. VEGETATION CONDITION

Comments

excellent

WK35

BIRDWHISTLE RESERVE							
Site No.: 5		Date Assessed			Date Assessed		
Km: Low mixed heath		9-Jul-98			3/11/98		
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D
	<i>Amphipogon turbinatus</i>				25	0.1	
BS005.10	<i>Baeckea crispiflora</i>	50	0.1		50	0.1	
	<i>Banksia sphaerocarpa</i>	90	9		90	9	
BS005.20	<i>Beaufortia incana</i>	60	0.6		60	1	
BS005.14	<i>Billardiera</i> sp. <i>Pronaya forsteri</i> (JSP)	130	0.2		T	0.2	
BS005.05	<i>Caustis dioica</i>	80	0.4		80	0.4	
	<i>Chamaescilla corymbosa</i> - <i>spiralis</i>				15	0.01	
BS005.19	<i>Chamaexeros serra</i>	20	0.1		20	0.1	
BS005.12	<i>Chloanthes coccinea</i>	80	0.4		80	0.5	
BS005.16	<i>Conostylis setigera</i> subsp. <i>setigera</i>	5	0.1		5	0.1	
BS005.15	<i>Drosera</i> sp.	0.5	0.2		T		0.01
BS002.01	<i>Dryandra armata</i>	130	3		150	5	
BS002.02	<i>Dryandra conferta</i>	80	5		80	8	
BS005.01	<i>Dryandra vestita</i>	110	2		110	2	
BS005.04	<i>Eremaea pauciflora</i>	110	6		110	6	
	<i>Hakea incrassata</i>				50	1	
BS005.02	<i>Isopogon teretifolius</i>	80	3.5		80	3.5	
	<i>Laxmannia grandiflora</i> - <i>palacea</i>				15	0.01	
BS005.18	<i>Lepidobolus preissianus</i>	20	0.05		20	0.05	
BS005.08	<i>Lepidosperma</i> - <i>striatum</i> <i>Tricostularia compressa</i>	80	1		80	1	
BS005.11	<i>Leptospermum erubescens</i>	200	1		250	1	
BS005.03	<i>Leucopogon minutifolius</i>	60	0.2		60	0.2	
BS005.09	<i>Lomandra effusa</i>	8	0.1		10	0.1	
BS005.13	<i>Melaleuca subtrigona</i>	80	0.7		80	0.7	
	<i>Neurachne alopecuroides</i>				5	1	
BS002.17	<i>Petrophile circinata</i>	70	0.2		70	0.2	
	<i>Petrophile</i> (media) - <i>brevifolia</i> - see				40	0.5	
BS001.08	<i>Pterostylis sanguinea</i>	5	0.1				
	<i>Rhodanthe laevis</i>				5		0.01
BS005.17	<i>Schoenus pleiostemoneus</i>	20	0.1		20	0.1	
	<i>Stylidium piliferum</i>				40	0.01	
BS005.21	<i>Stylidium repens</i>	5	0.1		5	0.01	
	<i>Thysanotus patersonii</i>				T		0.01
BS005.07	<i>Verticordia picta</i>	40	0.3		100	1	
	<i>Xanthorrhoea drummondii</i>	100	2.5		100	2.5	
	<i>Crypt. pungens</i> (JSP)						
	<i>Drosera zonaria</i>						
	<i>Baeckea preissiana</i>						
	<i>Pterostylis recurva</i>						
	<i>Lepidosperma striatum</i>						

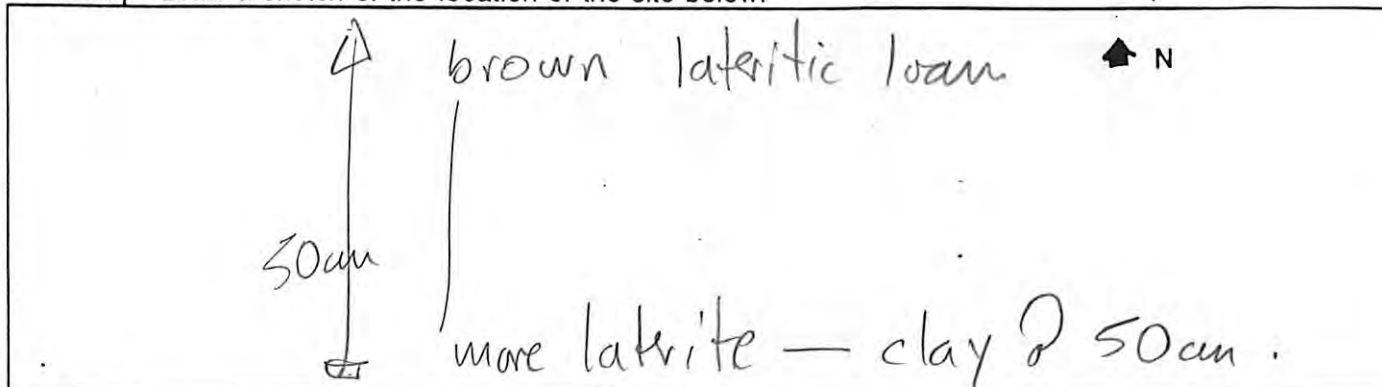
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS 06
 DATE TRIP 30/8/2000 RECORDERS WM/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

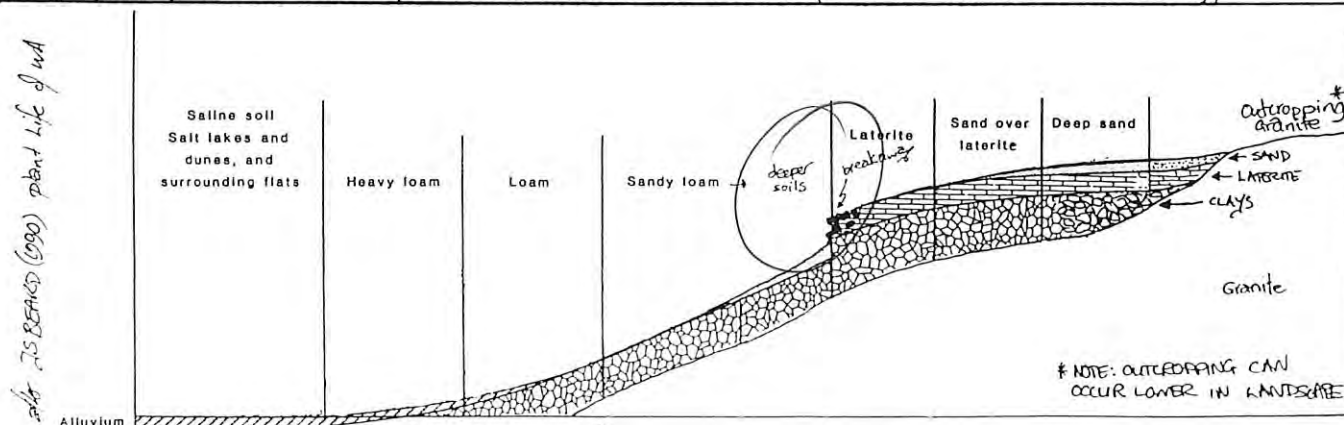


Road Location

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

Photograph Photographer's Name GK Photo No 34

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



2. SITE DATA Circle the correct response.

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

Surface Soil brown lateritic loam Colour _____
 Exposed rock type _____ % surface _____

Sub-surface Soil deep - lateritic loam Colour _____
 Rock type _____ depth to rock > 50cm

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

Litter bark, VS, FW, GS % cover > 90 Bare Ground 0 % cover
 Depth 2-5 cm

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

3. VEGETATION STRUCTURE AND COVER

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

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

TREES				MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		30-70			
DOMINANT SPECIES		<i>Euc. calcata</i> <i>Euc. astring</i>	<i>argyrea</i>		

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					22
DOMINANT SPECIES					<i>Hibbertia</i>

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	1	1			
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

BIRDWHISTLE RESERVE								
Site No.: 6				Date Assessed			Date Assessed	
Mc: mallee				9-Jul-98			3/11/98	
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D	
BS006.01	~~Eucalyptus falcata~~ <i>argyrea</i>	1200	25					
BS006.06	~~Eucalyptus pluricaulis~~ subsp. <i>pluricaulis</i>	1200	25					
BS006.02	~~Hibbertia~~ <i>'aurea'</i>	40	0.5					
BS006.03	Poaceae sp.	10	0.05					
BS001.08	<i>Pterostylis sanguinea</i>	6	0.01					
BS006.04	~~Stylidium pilosum~~	10	0.05					
	<i>Pterostylis rufa</i> <i>sargentii</i>							
	<i>Caladenia saccharata</i>							
	<i>Thysanotus patersonii</i>							
	<i>Goodenia scapigera</i>							
	<i>Lepidosperma viscid</i>							
	<i>Austrostepta pycnost</i>							

which
relect
as
? w/gm

✓ Euc. ① mallee, whipstick, smooth grey bark, in large
in wassata strips, lvs green-dull

✓ only *Beyeria? brevifolia* in plot

✓

ADD Euc astringens from cover, but

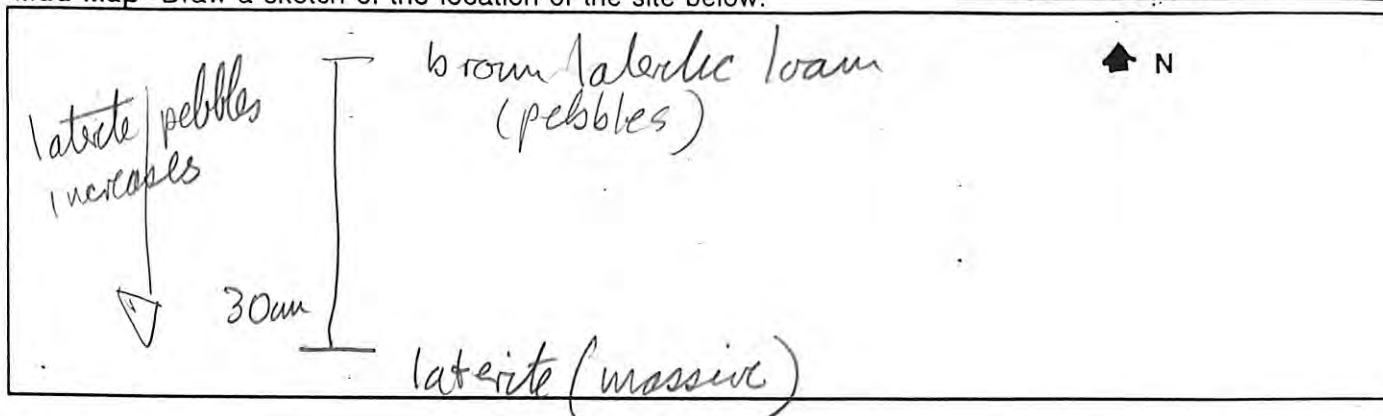
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS 07
 DATE TRIP 30/8/2000 RECORDERS WM/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



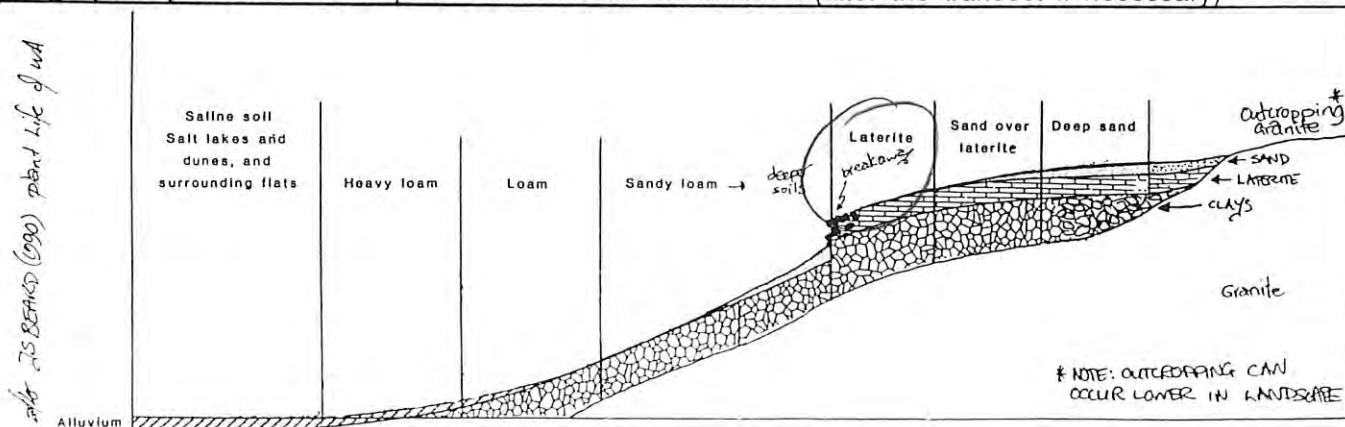
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map

Photograph Photographer's Name _____ Photo No _____

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



2. SITE DATA Circle the correct response.

Slope	flat	<u>gentle</u>	steep	Aspect	N	NE	E	<u>SE</u>	S	SW	W	NW
Surface Soil	lateritic loam							Colour	brown			
Exposed rock	type	lateritic pebbles % surface							30 %			
Sub-surface Soil	lateritic loam							Colour				
Rock	type	lateritic							depth to rock			
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet all year			winter/spring			
Litter	vs twigs	% cover	10/30	Bare Ground	30/50	% cover						
Depth	2-5 cm											

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

3. VEGETATION STRUCTURE AND COVER

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

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

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

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 				
COVER CLASS (%)	2-10		10-30		
DOMINANT SPECIES	Xanthorrhoea drum		Allocas. humilis Dry. conferta Dry. armata Bank. spharoc Mel. ~~uniflora~~ pungens		

GRASSES		HERBS		SEDGES	
				over 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	<2	<2			10-30
DOMINANT SPECIES					Lepidosperm Lepidob. chaet

4. VEGETATION CONDITION

Comments

excellent

[illegible]

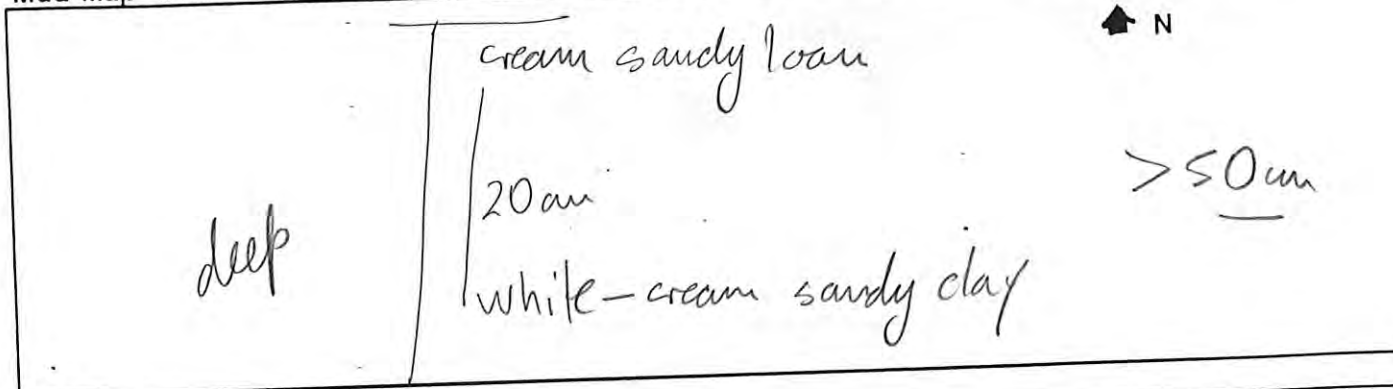
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS08
 DATE TRIP 30/8/2000 RECORDERS WM/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

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

1. LOCATION of the QUADRAT

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

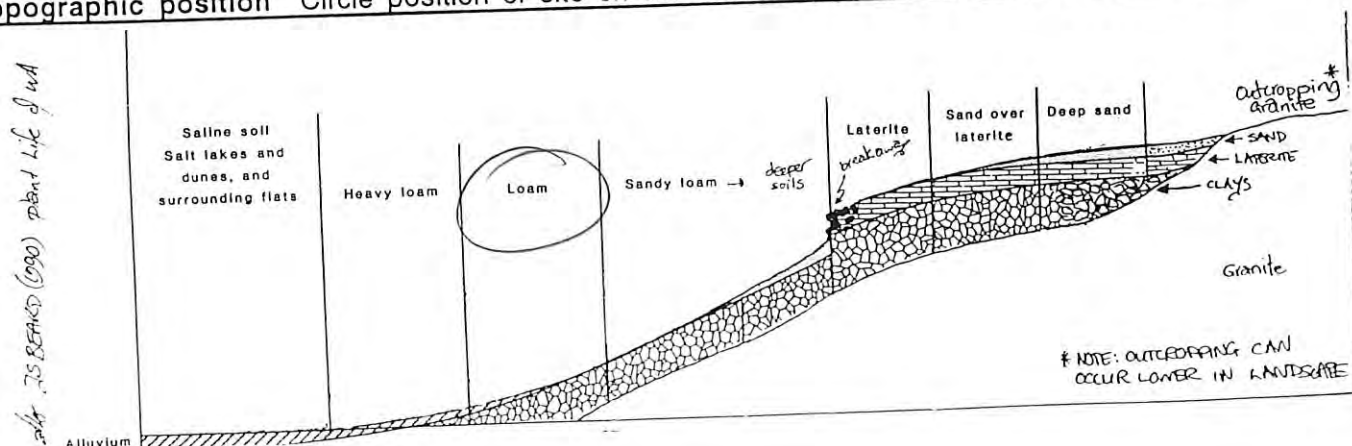


Road Location

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

Photograph _____ Photographer's Name _____ Photo No _____

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



2. SITE DATA Circle the correct response.

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

excellent - very good
rabbits

WK38

BIRDWHISTLE RESERVE							
Site No.: 8				Date Assessed		Date Assessed	
Ew1: Eucalyptus wandoo type 1				9-Jul-98		3/11/98	
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D
	* <i>Aira caryophyllea</i>				15		1
	* <i>Avena fatua</i>				15	0.01	
	* <i>Gomphocarpus fruticosus</i>				15		0.01
	* <i>Hypochaeris glabra</i>				25		0.01
	* <i>Ursinia anthemoides</i>	15	6	0.3	30		25
	* <i>Vulpia bromoides</i>				20		0.05
	<i>Allocasuarina huegeliana</i>	700	12		700	12	
BS008.05	<i>Austrostipa elegantissima</i> <i>trichophylla</i>	60	0.3		60	0.5	
	<i>Austrostipa flavescens</i> <i>pycnostachya</i>				30	5	
	<i>Blennospora drummondii</i>				10		0.5
BS008.03	<i>Borya sphaerocephala</i>	10	10		10		10
	~~<i>Cassynia melantha</i>~~ <i>delata</i>	T	0.01				
	<i>Chamaescilla corymbosa</i>	5	0.1				
BS008.01	<i>Daucus glochidiatus</i>	8	0.4				
~~BS008.04~~	~~<i>Desmocladius parthenicus</i>~~ <i>ms aspe</i>	15	4		15	4	
BS005.15	<i>Drosera</i> <i>sp. macrantha</i>	2	1		T	0.5	
	<i>Eucalyptus wandoo</i>	1200	25		1200	25	
	<i>Gnephosis tenuissima</i>				5	0.01	
BS008.02	<i>Hypocalymma strictum</i> <i>angustifolium</i>	110	40		110	40	
~~BS008.07~~	<i>Lepidosperma striata</i> <i>sp.</i>	40	0.3		40	0.3	
	<i>Loxocarya cinerea</i> = <i>Desm. asp</i>				25	0.1	
BS008.09	<i>Orchidaceae</i> sp.	1	0.1				
	<i>Phyllangium paradoxum</i>				15		0.01
BS008.06	<i>Poaceae</i> sp.	25	0.05				
	<i>Podolepis lessonii</i>				15		1
	<i>Podotheca angustifolia</i>				5		0.01
	<i>Rhodanthe citrina</i>				20		0.5
	<i>Rhodanthe laevis</i>				5		0.01
BS008.21	<i>Schoenus pleiostomoneus</i>				15	0.01	
BS008.20	<i>Stypandra glauca</i>				15	0.3	
	<i>Trachymene pilosa</i>				15	1	
	<i>Waitzia acuminata</i>				15	0.01	
	<i>Sowerbaea laxiflora</i>						
	<i>Desmocladius asper</i>						
	<i>Leporella fimbriata</i>						

Neurachne alopecur
Lebelia gibbosa

Lawrencella rosea

Thysanotus patersonii

Harperia laxiflora

Loimandra micrantha

Gonocarpus nodulosus

✓ *Pterostylis* (hairy)
aff nana
 = *spinland* (used)

Drosera zonaria

WK39

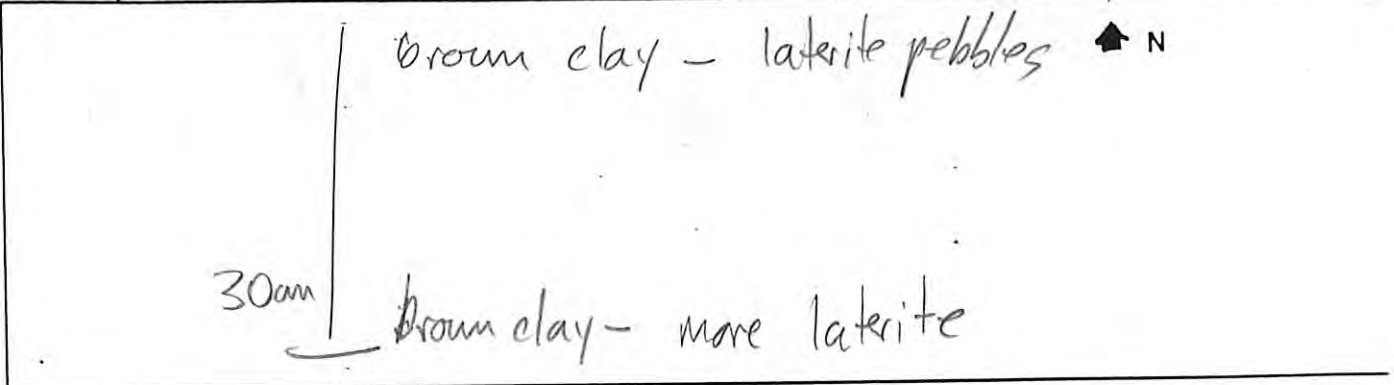
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS09
 DATE TRIP 30/8/2000 RECORDERS WM/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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



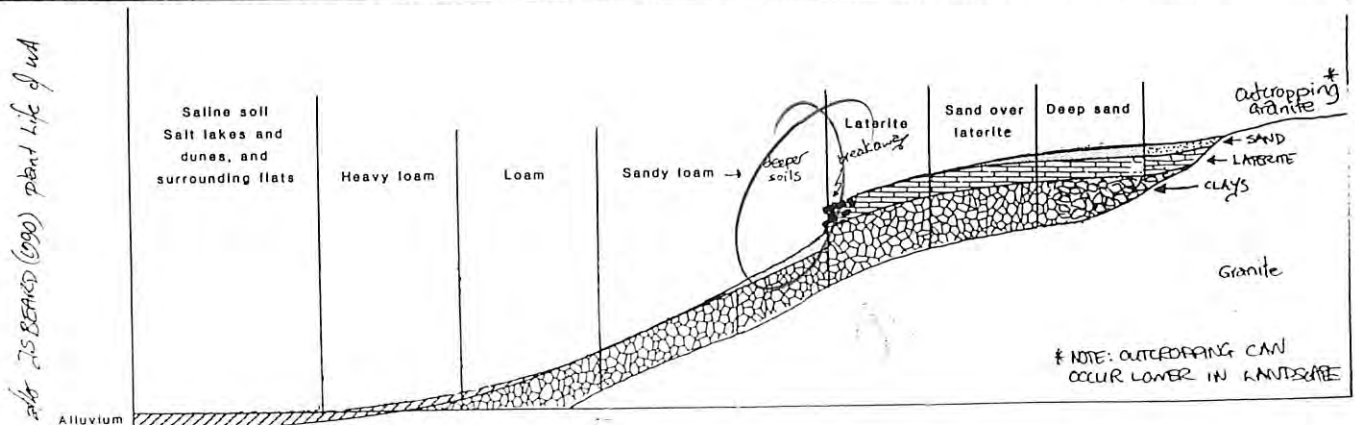
Road Location

Geographic Location Latitude _____ S Longitude _____ E Altitude _____

Reference Map _____

Photograph _____ Photographer's Name _____ Photo No _____

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



2. SITE DATA Circle the correct response.

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

Surface Soil type clay - lateritic Colour brown
 Exposed rock type laterite pebbles % surface 2

Sub-surface Soil type lateritic clay Colour brown
 Rock type _____ depth to rock > 30cm

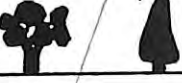
Drainage well mod poor depth water cm Wet all year winter spring

Litter vs. twigs % cover 30 Bare Ground 30/50 % cover
 Depth 2-5 cm

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

3. VEGETATION STRUCTURE AND COVER

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

For each layer record - appropriate life form, cover class (see below), and dominant species in each layer.					
Cover Class		2-10%	10-30%	30-70%	over 70%
TREES			MALLEES		
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)		2-10			
DOMINANT SPECIES		Euc. Wandoo			
SHRUBS			SHRUBS		
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2-10	2-10			30-70
DOMINANT SPECIES	M-el. uncin	Dry orn Gastr. perv			Hibb exasp Alloc. micro Dampiera lindley
GRASSES		HERBS	SEDGES	over 0.5m	
				under 0.5m	
LIFE FORM					
COVER CLASS (%)	2-10	< 2		2-10	
DOMINANT SPECIES	Nerachne				

4. VEGETATION CONDITION

Comments

excellent

BIRDWHISTLE RESERVE							
Site No.: 9		Date Assessed			Date Assessed		
Ew2: Eucalyptus wandoo woodland type 2		9-Jul-98			3/11/98		
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D
	* <i>Pentastchistis airoides</i>	10		0.01			
	<i>Allocasuarina huegeliana</i>	140	0.3		140	0.3	
BS009.05	<i>Allocasuarina microstachya</i>	60	6		60	6	
BS009.04	<i>Andersonia gracilis</i>	40	0.1		40	0.1	
BS009.10	<i>Andersonia lehmanniana</i>	15	0.1				
	<i>Astroloma drummondii</i>				40	0.05	
	<i>Austrodanthonia caespitosa</i>	20	0.1		20	0.5	
	<i>Austrostipa</i> sp.	40	0.01				
	<i>Baeckea crispiflora</i>				50	0.1	
BS009.08	<i>Beaufortia bracteosa</i>	30	1.5		30	1.5	
	<i>Cassutha racemosa</i>				T	0.01	
	~~<i>Chamaexeros fimbriata</i>~~ <i>lomandra micrantha</i>				10	0.5	
BS009.11	<i>Chamaexeros serra</i>	8	0.2		10	0.5	
	~~<i>Comesperma integerrimum</i>~~ <i>volubile</i>				T	0.1	
BS009.02	<i>Dampiera lindleyi</i>	70	5		70	5	
	<i>Drosera glanduligera</i>				5		0.01
BS002.01	<i>Dryandra armata</i>	175	1.5	0.5	175	1.7	0.5
	<i>Eucalyptus wandoo</i>	600	15		600	15	
BS009.13	<i>Gastrolobium parviflorum</i>	80	1.5		80	1.5	
BS007.04	~~<i>Hakea gilbertii</i>~~ <i>lehmannii</i>	70	0.5		70	0.5	0.5
	<i>Hakea incrassata</i>	40	0.4		40	0.5	
BS002.15	<i>Hibbertia ?exasperata</i>	40	2		40	2	
BS008.02	~~<i>Hypocalymma strictum</i>~~ <i>angustifol</i>	90	2		90	2	
BS009.21	<i>Jacksonia humilis</i> ms				30	0.01	
BS008.12	<i>Lepidosperma</i> sp.	25	2		25	2	
	<i>Leucopogon dielsianus</i>				30	0.05	
BS009.01	<i>Leucopogon minutifolius</i>	70	2		70	2	
BS005.13	<i>Melaleuca subtrigona</i>	80	1		80	1	
	<i>Melaleuca uncinata</i>	250	20		250	20	
	<i>Mesomelaena</i> sp. <i>preissii</i>				40	0.5	
BS009.20	~~<i>Nemcia</i> sp.~~ <i>Nemcia obovata</i>				30	0.5	
BS009.03	<i>Nemcia spathulata</i>	40	0.5				
	<i>Neurachne alopecuroidea</i>				25	0.1	
BS009.09	<i>Opercularia vaginata</i>	15	0.05		15	0.05	
BS009.12	<i>Patersonia juncea</i>	15	0.1				
	<i>Pterostylis</i> sp.				50		0.01
	~~<i>Schoenus calcatus</i>~~ <i>subflavus</i>				5	2	
BS009.07	<i>Schoenus hexandrus</i>	25	0.2		25	0.2	
BS009.23	<i>Stylidium hirsutum</i>				15	0.01	
BS009.06	<i>Stylidium luteum</i>	5	0.1		5	0.1	
	<i>Thysanotus patersonii</i>				T		0.01
BS009.22	<i>Verticordia huegelii</i> var. <i>stylosa</i>				20	0.01	
	<i>Xanthorrhoea drummondii</i>	140	5		140	5	
	<i>Haemodorum discolor</i>						
	<i>Caladenia specchiaris</i>						
	<i>Drosera macrantha</i>						
	<i>Drosera</i> sp (pygmy)						
	? <i>androsace</i>						

WK40

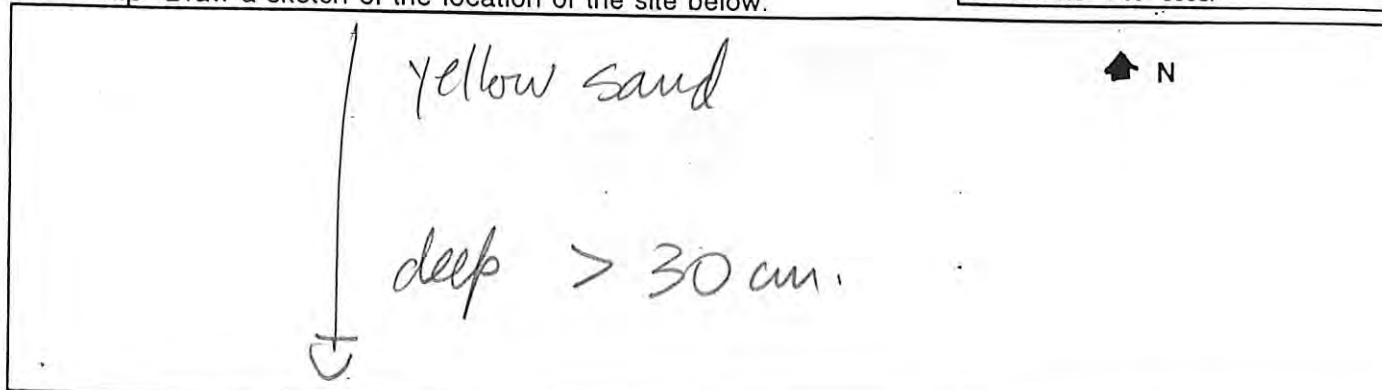
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS 10
 DATE TRIP 30/8/2000 RECORDERS WM/gk
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

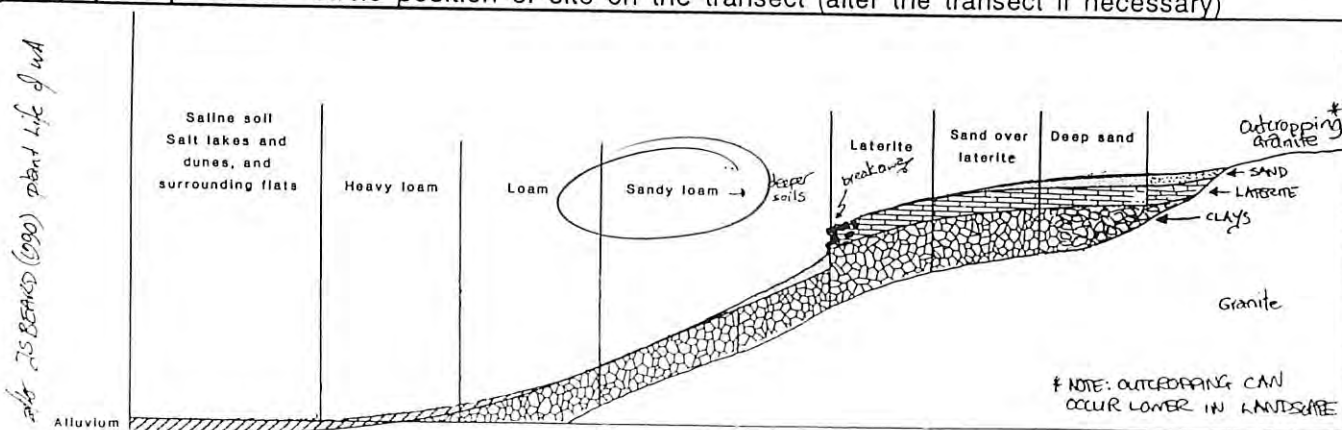


Road Location

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

Photograph Photographer's Name A. RIL Photo No 3536

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 deep sand Colour yellow-brown
Exposed rock type _____ % surface _____
Sub-surface Soil type sand Colour _____
Rock type deep depth to rock _____
Drainage well mod poor depth water _____ cm **Wet** all year winter/spring
Litter twigs, lvs % cover 10/30 **Bare Ground** 30 %cover
 Depth 2-5 cm

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

3. VEGETATION STRUCTURE AND COVER

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

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>Allocasuarina</i>		
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>Eremophila</i> <i>Leptosiphon</i> <i>Banksia</i>		
GRASSES		HERBS	SEDGES	over 0.5m	
				under 0.5m	
LIFE FORM					
COVER CLASS (%)	<2	<2		2-10	
DOMINANT SPECIES		<i>Hypochaeris</i>		<i>Lepidochloa</i>	

4. VEGETATION CONDITION

Comments

excellent - very good
heavy rabbit grazing

WK40

BIRDWHISTLE RESERVE							
Site No.: 10				Date Assessed		Date Assessed	
Ke: Eremaea pauciflora heath				9-Jul-98		3/11/98	
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D
	* <i>Aira caryophyllea</i>				5		1
	* <i>Hypochaeris glabra</i>	2	0.3		15	0.5	
	* <i>Vulpia bromoides</i>				15	0.5	1
BS005.22	<i>Acacia stenoptera</i>	60	1		60	1	
	<i>Allocasuarina huegeliana</i>	500	2		500	2	
	<i>Austrodanthonia caespitosa</i>	30	0.3		30	0.3	
	<i>Austrostipa elegantissima</i>	70	0.3		70	0.5	
BS005.10	<i>Baeckea crispiflora</i>				50	0.5	
	<i>Banksia sphaerocarpa</i> var. <i>caesia</i>	110	2.5		110	2.5	
BS002.11	<i>Billardiera</i> sp.	T	0.5		T	0.5	
	<i>Blennospora drummondii</i>				5		0.1
	<i>Caladenia</i> sp.				15		0.01
	<i>Crassula colorata</i>				5		0.01
BS005.15	<i>Drosera</i> sp.	2	0.5				
	<i>Dryandra nivea</i>	60	2		60	2	
BS010.01	<i>Eremaea pauciflora</i>	100	60	2	120	60	2
~~BS010.05~~	~~<i>Euchiton sphaericus</i>~~ <i>Helichrysum leucopsideum</i>	25	0.1				
BS002.14	<i>Hakea incrassata</i>	50	1.5		30	0.5	
	<i>Lagenifera huegelii</i>				5	0.05	
BS005.11	<i>Leptospermum erubescens</i>	100	15		150	15	
	<i>Levenhookia stipitata</i>				5		0.01
~~BS010.03~~	~~<i>Melaleuca subtrigona</i>~~	60	0.5				
BS010.04	<i>Mesomelaena preissii</i>	70	0.4		70	0.5	
	<i>Millotia</i> sp. <i>myosotidii folia</i>				5		0.01
	<i>Monotaxis grandiflora</i>				5	0.01	
	<i>Neurachne alopecuroides</i>				25	1	
	~~<i>Neurachne</i> sp.~~ <i>delete</i>				20	0.05	
	<i>Opercularia vaginata</i>				30	1	
BS010.02	<i>Petrophile ericifolia</i>	100	2		120	2	
	<i>Podotheca angustifolia</i>				5		0.01
~~BS010.06~~	~~<i>Schoenus</i> sp.~~ <i>subflavus</i>	20	0.05		20	0.05	
	<i>Stackhousia monogyna</i>				30	0.05	
	<i>Stylidium repens</i>				5	0.1	
	<i>Trachymene pilosa</i>				5	0.01	
	<i>Xanthorrhoea drummondii</i>	140	1		140	1	
	<i>Drosera zonaria</i>						
	<i>Caladenia flava</i>						
	<i>Thysanotus patersonii</i>						

not seen.

*Helichrysum**Artropodium capillipes**Podolepis lessonii**Trifolium* sp*Caladenia saccharata**Austrostipa* sp*Lepidobol. chaetac*

WK41

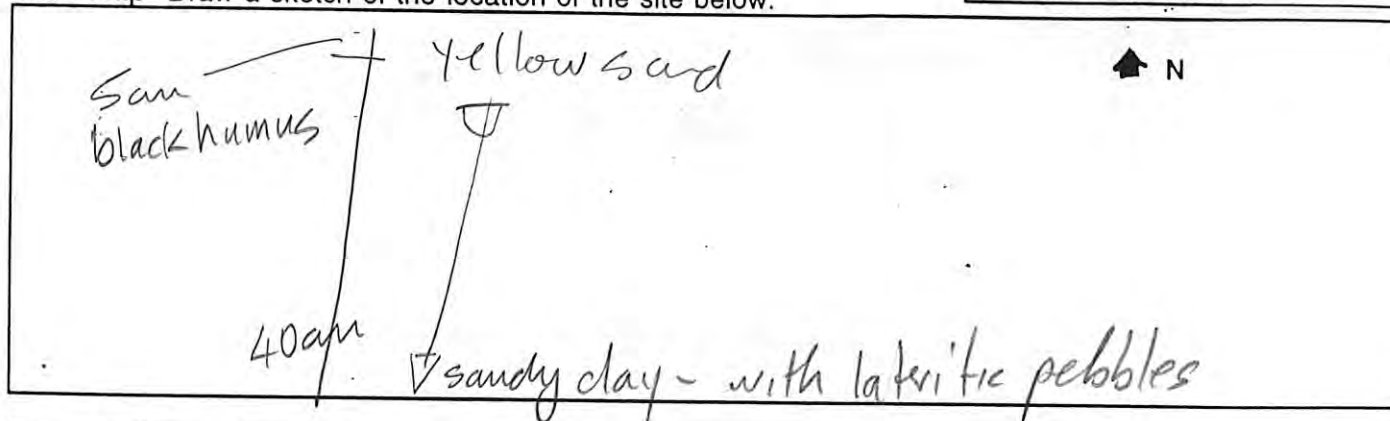
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS 11
 DATE TRIP 30-8-2000 RECORDERS WM/gk
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

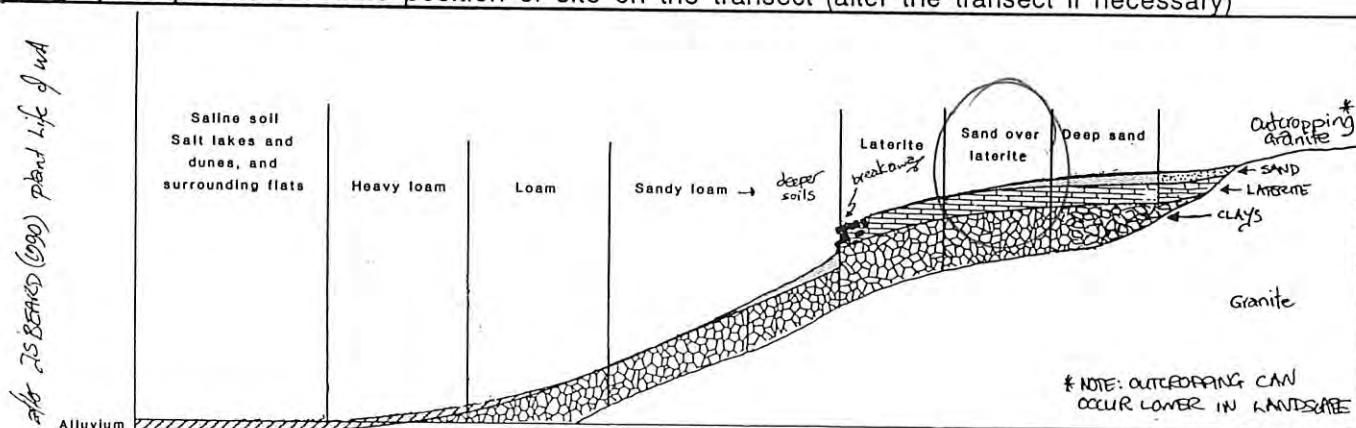


Road Location

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

Photograph Photographer's Name _____ Photo No _____

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



2. SITE DATA Circle the correct response.

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

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 (%)	30-70				
DOMINANT SPECIES	<i>Euc. falcata</i>				
SHRUBS					
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)	2				
DOMINANT SPECIES	<i>Callitris roei</i> <i>Dry. ornata</i>				
GRASSES		HERBS	SEDGES	over 0.5m	
					under 0.5m
LIFE FORM					
COVER CLASS (%)	<1	<1		<1	
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

WK41

BIRDWHISTLE RESERVE							
Site No.: 11		Date Assessed			Date Assessed		
Ef: Eucalyptus falcata woodland		10-Jul-98			3/11/98		
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D
BS0011.14	<i>Austrostipa pycnostachya</i>				15	0.01	
BS003.02	<i>Callitris roei</i>	200	2		200	2	
BS011.01	<i>Chamaexeros serra</i>	10	0.1		10	0.1	
	<i>Drosera</i> sp.	T	0.1				
BS002.01	<i>Dryandra armata</i>	140	1	1	140	1	
	<i>Eucalyptus falcata</i>	1600	55		1600	60	
BS011.03	<i>Lepidosperma</i> sp. <i>resinosum</i>		0.1		25	0.1	
	<i>Lomandra effusa</i>				5	0.01	
BS002.13	<i>Pterostylis</i> sp.	1	0.1				
BS007.10	<i>Stylidium miniatum</i>	2					
BS001.07	<i>Thysanotus patersonii</i>	1	0.1				
	<i>Caladenia saccharata</i>						

No coll
by DB

WK42

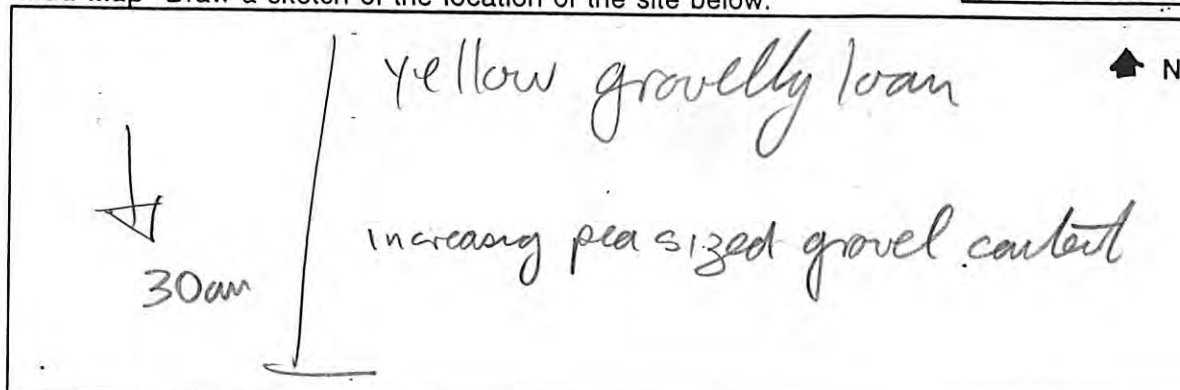
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS 12
 DATE TRIP 30/8/2000 RECORDERS WM/ GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

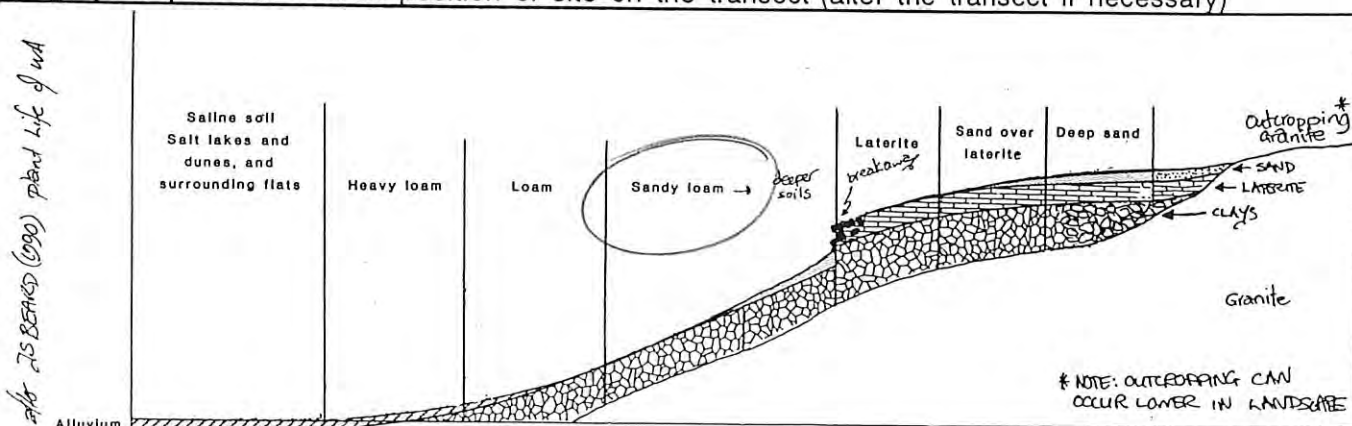


Road Location

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

Photograph Photographer's Name _____ Photo No _____

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



2. SITE DATA Circle the correct response.

Slope flat gentle steep **Aspect** N NE E SE S SW W NW
Surface Soil type gravelly loam Colour yellow
Exposed rock type _____ % surface _____
Sub-surface Soil type gravelly loam Colour yellow
Rock type laterite depth to rock > 1m
Drainage well mod poor depth water _____ cm Wet all year winter/spring
Litter twigs, lvs _____ % cover 10/30 **Bare Ground** 30/50 %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.

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

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

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM	 				
COVER CLASS (%)	2-10		10-30		10-30
DOMINANT SPECIES	Xanth. drumm		Leptos. rub Dryandra eryth		Mel. pungens Dry. calophyll

GRASSES		HERBS		SEDGES		SEDGES	
				over 0.5m		under 0.5m	
LIFE FORM							
COVER CLASS (%)	L2	L2				10-30	
DOMINANT SPECIES						Lepidosp -- Lepido. clact Mesom. preiss	

4. VEGETATION CONDITION

Comments

very good - excellent
heavy rabbit grazing

WK42

BIRDWHISTLE RESERVE								
Site No.: 12				Date Assessed			Date Assessed	
Kb: Beaufortia incana heath				10-Jul-98			3/11/98	
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D	
	*Aira caryophyllea				5		0.5	
	*Vulpia bromoides				15		2	
	Acacia stenoptera				30	0.1		
BS001.06	Austroanthonia caespitosa	5	0.1		5	0.1		
BS005.10	Baeckea crispiflora	50	0.5		50	1		
	Banksia sphaerocarpa var. caesia	80	2		80	0.5		✓
	Blennospora drummondii				5		1	
	Crassula colorata				10	0.1		✓
	Cryptandra nutans				50	0.1		✓
	Drosera sp.	T	0.1					
BS010.08	Dryandra ferruginea	40		1	40	1	1	✓
	Dryandra nivea	50		1	50		1	✓
BS012.02	Dryandra vestita	100	2		100	2	1	✓
BS012.04	Gompholobium marginatum	10	0.1		10	0.1		✓
	Hakea lehmanniana	80			170	8		✓
BS005.02	Isopogon teretifolius	40	4	3	120	4	3	✓
BS002.09	Lepidobolus chaetocephalus	10	0.1		10	0.1		
BS008.12	Lepidosperma sp.	80	8		80	8		
BS002.07	Leptospermum erubescens	170	10		170	8		✓
	Levenhookia pusilla				5	0.5		
	Levenhookia stipitata				5	0.01		
BS012.21	Lobelia rarifolia				15	0.01		
BS012.01	Melaleuca subtrigona	50	6		50	6		✓
BS007.02	Melaleuca pungens	50	5	5	50	5		✓
BS010.04	Mesomelaena preissii	60	8		60	10		✓
	Millotia sp.				3		0.01	
BS012.03	Nemcia spathulata	50	1					✓
	Neurachne alopecuroidea				25	1		✓
BS002.17	Petrophile circinata	40	0.5		40	0.5		✓
	Podotheca angustifolia				5		0.01	
BS009.07	Schoenus hexandrus	10	0.5		10	0.5		✓
	Stackhousia monogyna				50	0.1		✓
	Verticordia picta				40	0.5		✓
	Xanthorrhoea drummondii	250	2		250	2		✓
	Petrophile media							

15000
8/1/98

Beackea preissiana

Drosera macrantha

Stylidium piliferum

Schoenus sp "sagote clams"

Chaemalexos serria

Acacia stenoptera

Schoenus subflavus

Add
Dryandra eryth
Dryandra ulph
from
coverhead

WK43

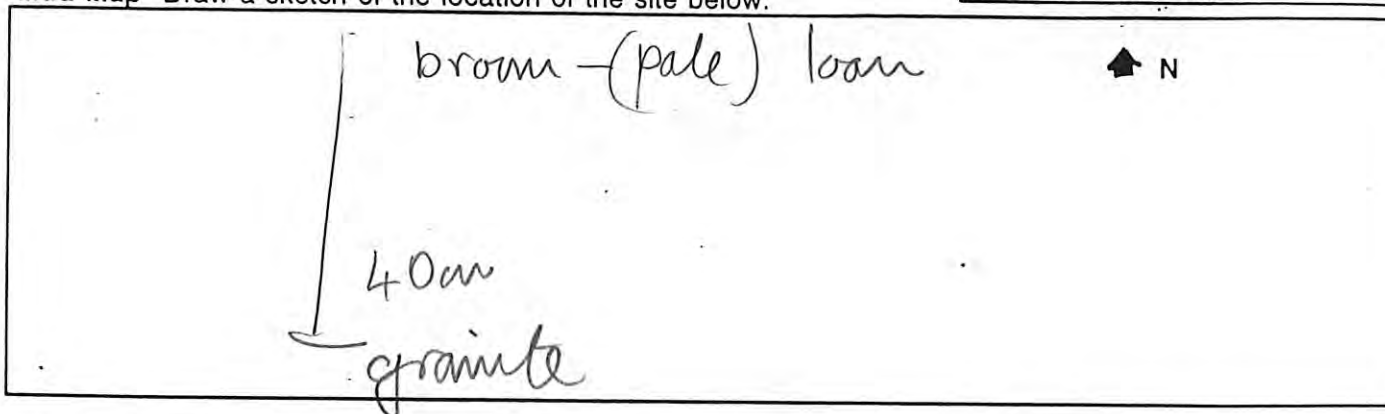
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Birdwhistle NR SITE NUMBER BS13
 DATE TRIP 30/8/2000 RECORDERS WM/GK
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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

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

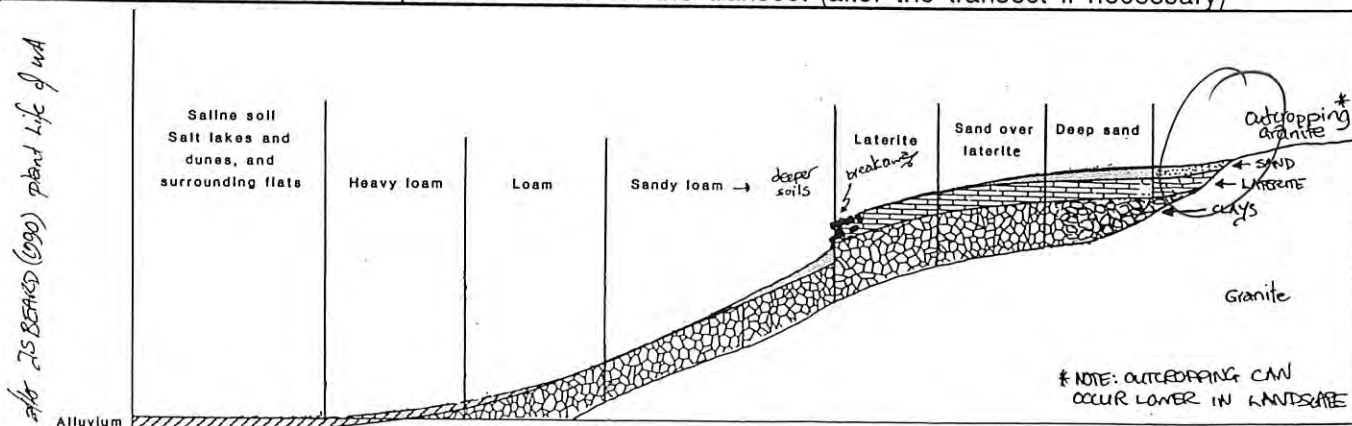


Road Location

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

Photograph Photographer's Name GK Photo No 1/2

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	<u>SE</u>	S	SW	W	NW
Surface Soil	loam			Colour	brown							
Exposed rock	type			% surface								
Sub-surface Soil	loam			Colour								
Rock	type			depth to rock	40-50cm							
Drainage	<u>well</u>	mod	poor	depth water	cm	Wet	all year	winter/spring				
Litter + wiggly stems	% cover			296	Bare Ground	410			% cover			
Depth	2-20cm											

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 (%)		30-70			
DOMINANT SPECIES		<i>Alloc. hueg</i> <i>Euc. wandoo</i>			

SHRUBS				SHRUBS	
	over 2m	2m - 1.5m	1.5 - 1m	1 - 0.5m	under 0.5m
LIFE FORM					
COVER CLASS (%)					22
DOMINANT SPECIES					

GRASSES		HERBS		SEDGES	
	over 0.5m		under 0.5m		
LIFE FORM					
COVER CLASS (%)	10-30	10-30	10-30		
DOMINANT SPECIES	<i>Neracne alop</i> <i>Austrotipa tricho</i>	<i>mix-ed</i>	<i>Lepidosp vise</i>		

4. VEGETATION CONDITION

Comments

excellent

WK43

BIRDWHISTLE RESERVE								
Site No.: 13				Date Assessed			Date Assessed	
Ah: Allocasuarina huegeliana woodland				10-Jul-98			3/11/98	
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D	
	*Hypochaeris glabra				25		0.5	
	*Parentucellia latifolia				10	0.5		
	*Ursinia anthemoides	10	2		20	3		
	Allocasuarina huegeliana	1000	40	2	1000	40		
BS013.06	Austrodanthonia caespitosa		20		20	5		
X	~~Austrostipa flavescens~~ <i>richophylla</i>				40	0.1		
	Blennospora drummondii				5		3	
	Caladenia flava				10		0.01	
	Caladenia sp.				15		0.1	
BS013.07	Chamaescilla corymbosa	5	0.05		5	0.5		
BS013.01	Cheilanthes austrotenuifolia	2	5					
	Dodonaea viscosa subsp. angustissima				40	1		
	Drosera sp.				T		0.01	
X	BS013.08 <i>Eucalyptus hypochlamydeia</i> subsp. <i>ecdysiastes</i>	800	4		800	4		
	<i>Gonocarpus</i> sp. <i>nodulosus</i>				20	1		
BS013.05	Lepidobolus chaetocephalus	15	0.2		15	0.2		
	Lepidosperma resinosum	80	20		80	30		
	Monotaxis grandiflora				5	0.01		
	Neurachne alopecuroidea				25	18		
	~~Neurachne~~ sp.				5	2		
BS013.04	Orchidaceae sp.	5	0.1					
	Phyllangium paradoxum				15		0.01	
	Rhodanthe citrina				20	1		
	Rhodanthe laevis				20		0.5	
BS013.02	~~Senecio glossanthus~~ <i>Walgia acuminata</i>	20	3		20		3	
BS001.07	Thysanotus patersonii	1	0.1		T		0.1	
	Trachymene ornata				10			
	Trachymene pilosa				15	1		
BS007.06	Tricoryne elatior	40	0.5	0.1				
	Waitzia acuminata				20	5		
	<i>Lawrencellia stavenp</i>							

Caladenia

Drosera macrantha

Cheilanthes austro-tenuif

Stackhousia monogyna

Thyso pterostylis sanguinea

Austrostipa elegantiss

B514

BUSHLAND AREA Birdwhistle NR SITE NUMBER B514
 DATE TRIP 30/4/2000 RECORDERS WM/GK
 DATE TRIP _____ RECORDERS _____ WK44
 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.

Soil

red brown loamy clay $\blacktriangle$ N - rocky
 10-15cm red clay

Road Location

Geographic Location Latitude

S Longitude

E Altitude

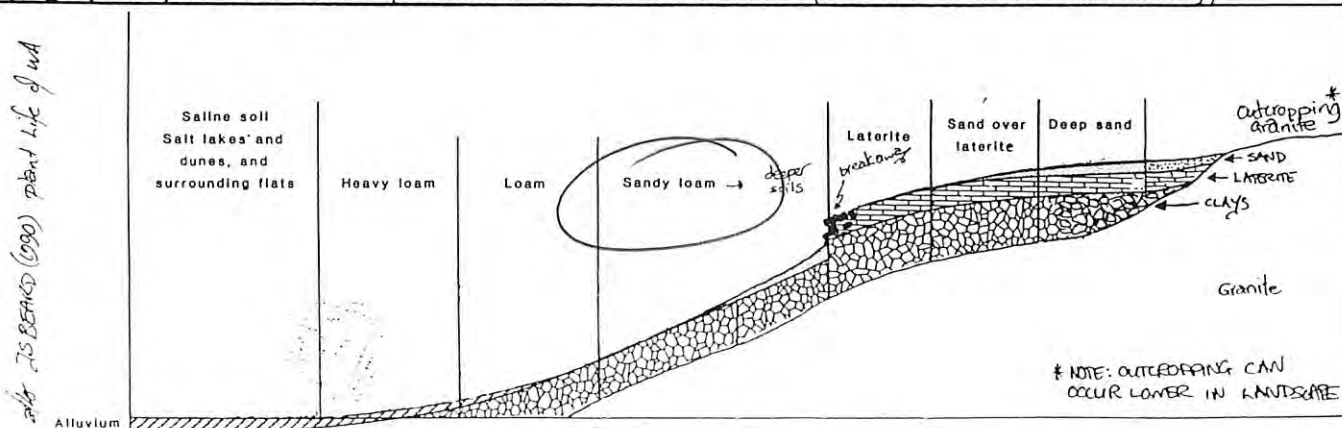
Reference Map

Photograph

Photographer's Name

Photo No

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



2. SITE DATA Circle the correct response.

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

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

3. VEGETATION STRUCTURE AND COVER

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

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

TREES				MALLEES	
	over 15m	5-15m	under 5m	over 8m	under 8m
LIFE FORM					
COVER CLASS (%)	2-10			10-30	
DOMINANT SPECIES	Euc. salmon			Euc. cong 1	

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		under 0.5m
LIFE FORM					
COVER CLASS (%)	<1	<1			<1
DOMINANT SPECIES					

4. VEGETATION CONDITION

Comments

excellent

WK44

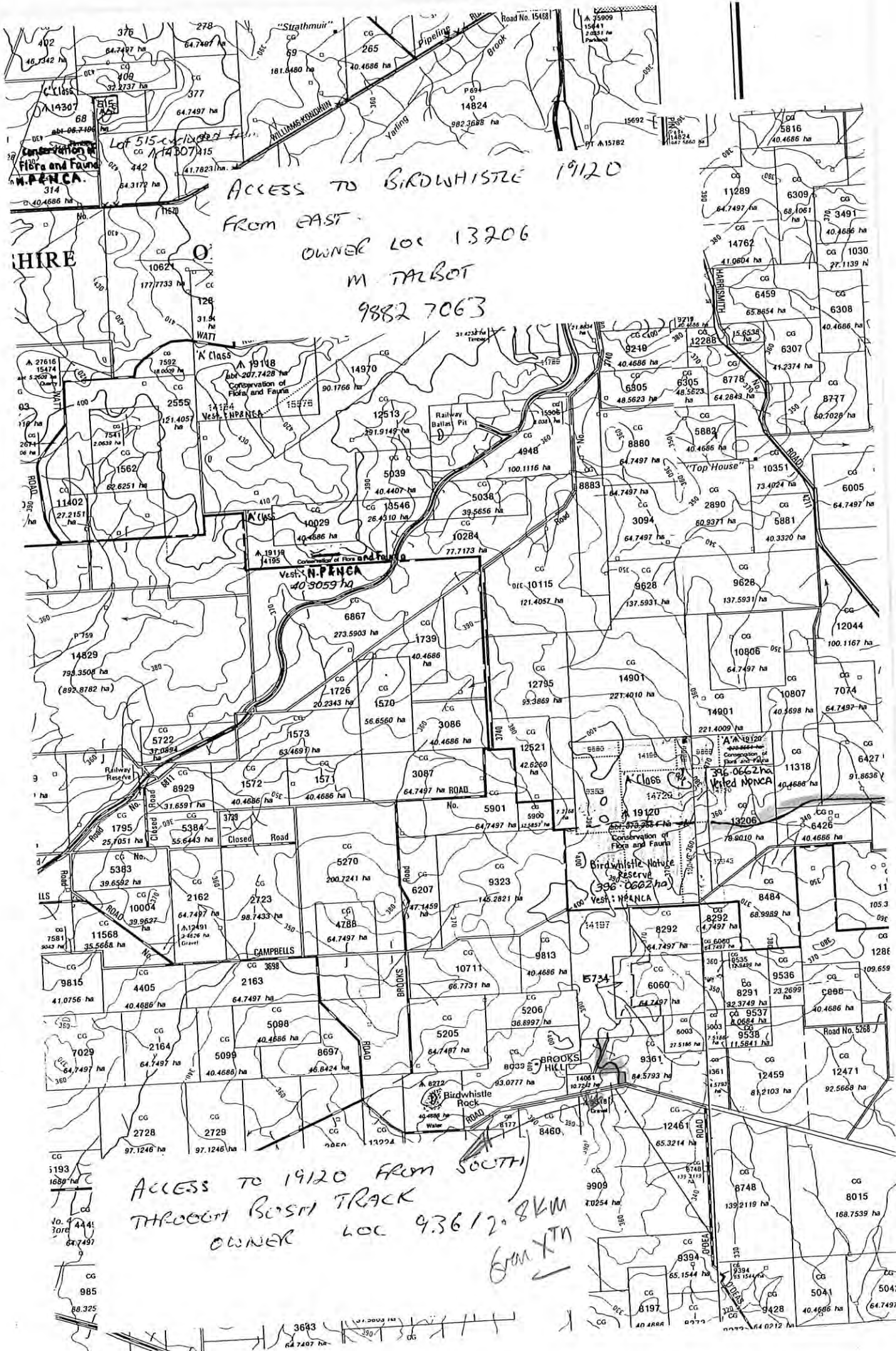
BIRDWHISTLE RESERVE								
Site No.: 14		Date Assessed			Date Assessed			
Es/Mc Eucalyptus salmonophloia/mallee		10-Jul-98			3/11/98			
Coll.No.	ID Name	Ht	% A	% D	Ht	% A	% D	
	* <i>Bromus rubens</i>				15		0.01	✓
	<i>Austrostipa elegantissima</i>				50	0.1		✓
	<i>Austrostipa pycnostachya</i>				30	0.1		✓
BS014.03	<i>Eucalyptus conglobata</i> <i>phaenax</i>	1000	40		1000	40		✓ coll
BS014.01	<i>Eucalyptus salmonophloia</i>	2200	15		2200	15		✓
	<i>Eucalyptus</i> -sp. <i>phaenax</i> (vsp)	900						✓
	<i>Poaceae</i> sp.	10	1					✓
BS014.02		1	0.1					✓
BS001.07	<i>Thysanotus patersonii</i>							

| *E. sp. phaenax* tree, Mallet, smth grey bark, slender
to 8/9m ✓

20x20 - *Euc astringens* (vsp)

BIRDWHISTLE NATURE RESERVE

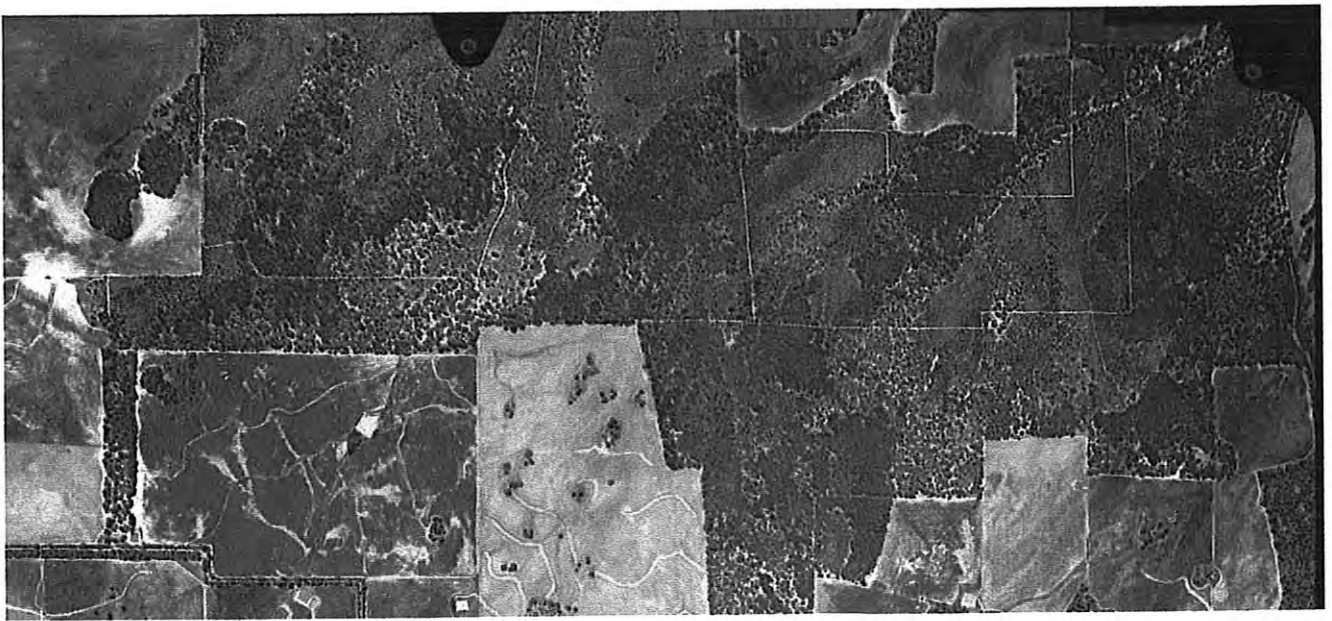
**Plot Locations
Site Parameters
Vegetation Data**



Access to Birdwhistle 19120

From East
Owner Loc 13206
M TALBOT
9882 7063

Access to 19120 From South
Through Bush Track
Owner Loc 93612.8km
from Xtn



CLM012															
Birdwhistle Rock															
Site No.	Date	Veg. Type	Topography	Age since fire	Cover	Litter Type	Outcropping Type	Quant	Aspect Slope	Heading	% bg	Soils CSS ratio	Colour	Pebble Type	Size
1	8/07/98	Mm	US	>3	90	Lv>T>Lg	nil	nil	2	NW	5	0:04:06	5YR3/4	Lat	<10
2	8/07/98	Md	US	>3	75	Lv>T	nil	nil	2	E	15	1:04:05	10YR6/6	Lat	<10
3	8/07/98	Ea	US	>3	98	Lv>T>Lg	nil	nil	nil	NA	0.5	1:04:05	5YR3/2	Lat	<10
4	8/07/98	El	MS	>3	95	Lv>T>Lg	nil	nil	5	S	1	0:06:04	5YR4/4	Lat	<1
5	9/07/98	Km	R	>3	1	Lv,T	nil	nil	nil	NA	5	0:00:10	10YR6/2	nil	nil
6	9/07/98	Mc	R	>3	98	Lv,Lg>T	Laterite	occ	0.5	S	1	0:04:06		Laterite	<10
7	9/07/98	Kd	R	>3	2	Lv,T	nil	nil		NE	20	1:04:05	5YR4/4	Laterite	<10
8	9/07/98	Ew	LS	>3	30	Lv<T	nil	nil	0.5	N	8	0:00:10	10YR6/2	nil	nil
9	9/07/98	Ew2	US	>3	5	Lv<T	nil	nil	1	N	20	1:04:05	10YR5/4	Laterite	<10
10	9/07/98	Ke	US	>3	1	Lv<T	nil	nil		S	8	0:00:10	10YR5/4	nil	nil
11	10/07/98	Ef	US	>3	95	Lv>T>Lg	nil	nil	nil	NA	1	1:04:05	10YR6/6	Laterite	<10
12	10/07/98	Kb	LS	>3	10	L	nil	nil	1	SE	20		5YR4/4	Laterite	<1
13	10/07/98	Ah	MS	>3	95	Lv>T>Lg	nil	nil	nil	NA	0		10YR4/2	nil	nil
14	10/07/98	Mc		>3	95	Lv>T>Lg	nil	nil	2	S	2		5YR5/4	Laterite	<10

Site location

Birdwhistle NR

Vegetation Associations

Woodlands, Low Woodlands, Low Forests

1. *Eucalyptus wandoo* (wandoo, whitegum) Woodland - Type 1
2. *Eucalyptus wandoo* (wandoo, whitegum) Woodland - Type 2
3. *Eucalyptus astringens* (brown mallet) / *E. gardneri* (blue mallet) Forest
4. *Eucalyptus falcata* (silver mallet) Woodland
5. *Allocasuarina huegeliana* (sheoak) Woodland
6. *Eucalyptus longicornis* (morrel) Woodland
7. **Eucalyptus salmonophloia* (salmongum) Woodland

Map U

E
E
A
E
E

Mallee

8. Mallee
9. Mallee over *Melaleuca* Heath
10. Open Mallee over *Dryandra* Heath

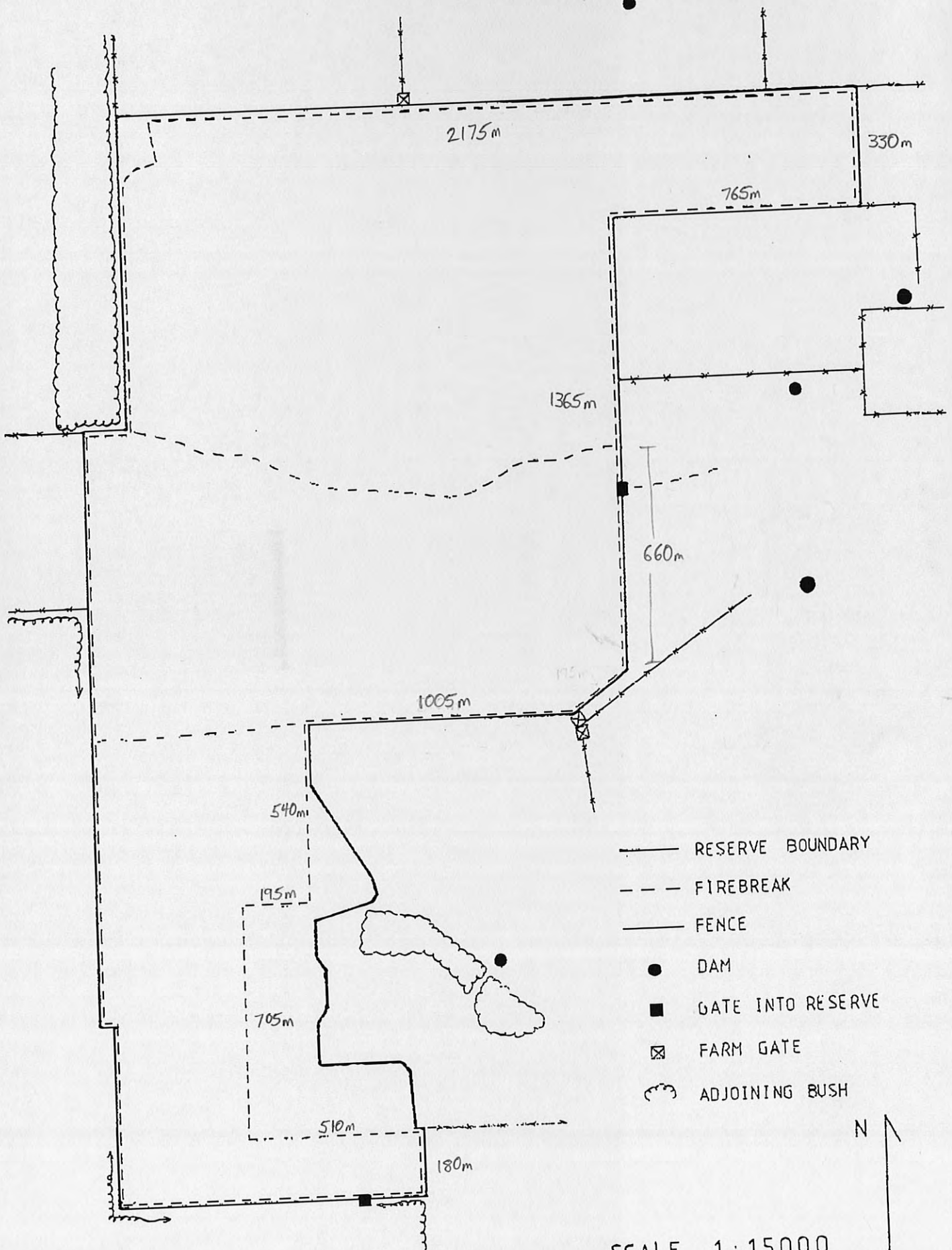
Mc
Mr
Mc

Kwongan (shrub) heath communities

11. *Dryandra* Heath
12. *Eremaea pauciflora* Heath
13. *Beaufortia incana* Heath
14. Low Mixed Heath

Kd
Ke
Kb
Km

SCALE 1:10,000

BIRDWHISTLE ROCK NATURE RESERVE 19120

WICKEPIN SHIRE

SCALE 1:15000

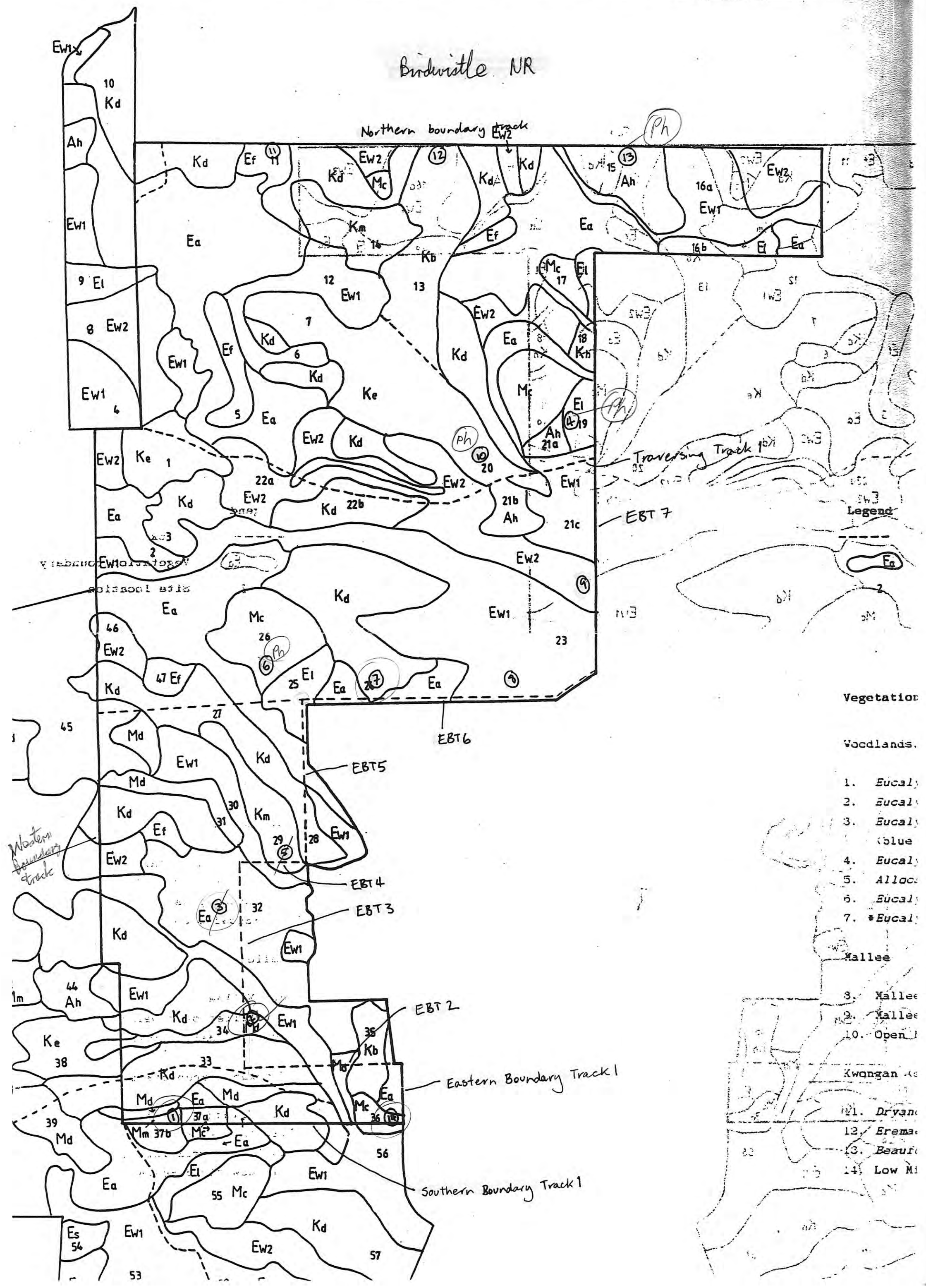
1 cm = 150 m

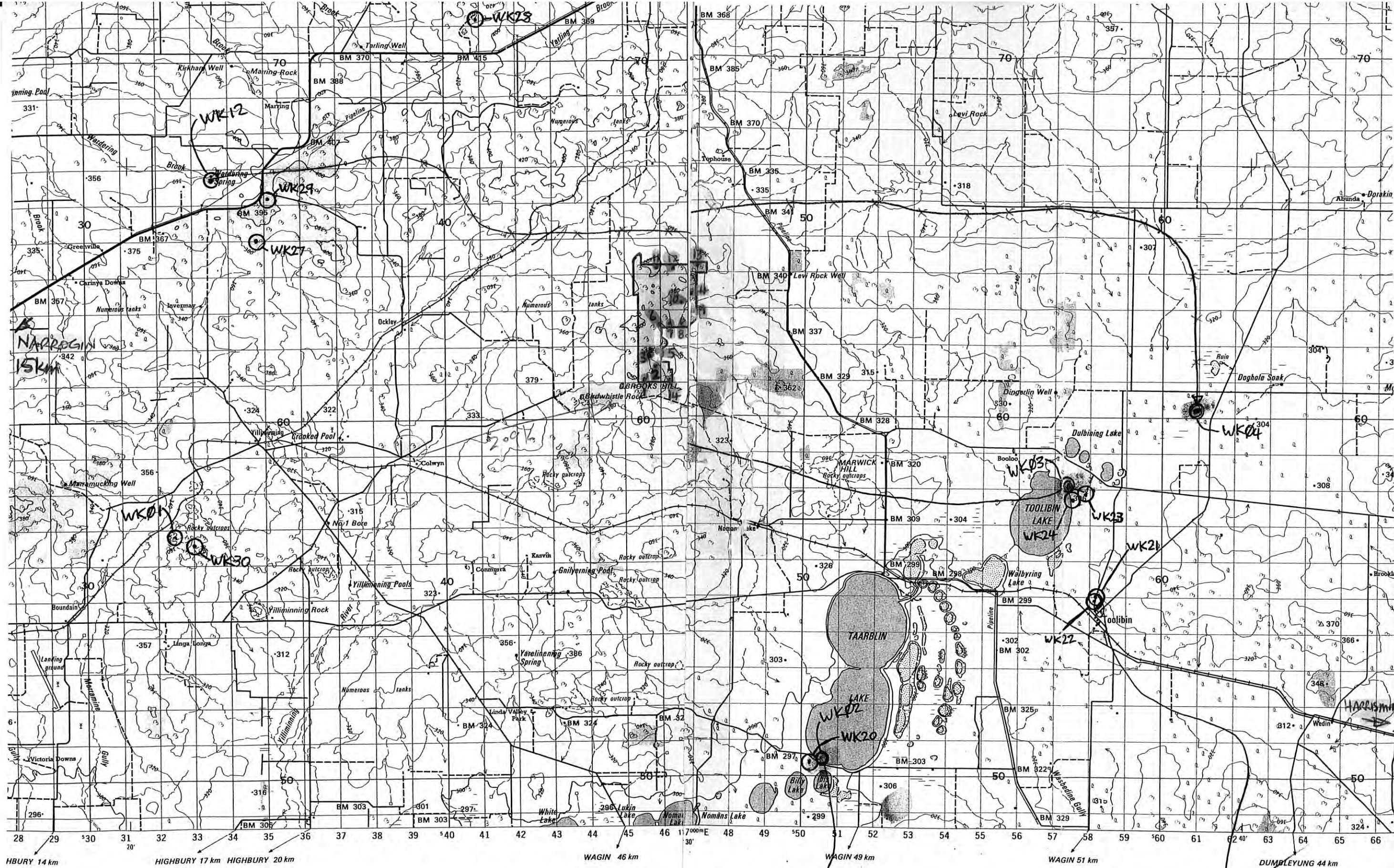
CLMO12 - Birdwhistle					
Note: Refer to map for location of "boundary track numbers" (ie. Eastern Boundary Track 1, Western Boundary Track 2, etc.)					
			GPS		
Date	Site	Map Code	UTM	K/J	Location
8/07/98	BS1	Mm	50545736	6361025	Site 40m N of Southern Boundary Track 1 (bearing 310°), 150m E of Western Boundary Track.
8/07/98	BS2	Md	50545992	6361401	Site 45m on bearing 273°, 150m N along Eastern Boundary Track 3 from junction with Eastern Boundary Track 2.
8/07/98	BS3	Ea	50545955	6361737	Site 45m on bearing 273°, 525m N along Eastern Boundary Track 3 from junction with Eastern Boundary Track 2.
8/07/98	BS4	El	50547107	6363396	Site 60m on bearing 307°, 850m N along Eastern Boundary Track 7 from junction with Eastern Boundary Track 6.
9/07/98	BS5	Km	50546174	6361886	Site 50m on bearing 343°, 50m N along Eastern Boundary Track 5 from junction with Eastern Boundary Track 4. (243° - due W)
9/07/98	BS6	Mc	50545872	6362536	Site 100m on bearing 343°, 150m W from junction of Eastern Boundary Tracks 5 and 6.
9/07/98	BS7	Kd	50546432	6362445	Site 70m on bearing 353°, 200m E along Eastern Boundary Track 6 from junction with Eastern Boundary Track 5.
9/07/98	BS8	EW1	50546905	6362523	Site 65m on bearing 343°, 650m E along Eastern Boundary Track 6 from junction with Eastern Boundary track 5.
9/07/98	BS9	EW2	50547086	6362799	Site 60m on bearing 288°, 300m N along Eastern Boundary Track 7 from junction with Eastern Boundary Track 6.
9/07/98	BS10	Ke	50546874	6363163	Site 60m on bearing 350°, 300m W along Traversing Track 1 from junction with Eastern Boundary Track 7.
10/07/98	BS11	Ef	50546191	6364041	Site 50m S (bearing 180°), 300m E along Northern Boundary Track from West end.
10/07/98	BS12	Kb	50546672	6364061	Site 50m on bearing 200°, 850m E along Northern Boundary Track from West end.
10/07/98	BS13	Ah	50547177	6364067	Site 60m on bearing 140°, 1450m E along Northern Boundary Track from West end.
10/07/98	BS14	Mc	50546470	6361053	Site 40m on bearing 20°, from corner of Eastern Boundary Track 1 and Southern Boundary Track 1.

1- 32° 53' 16.3" 117° 29' 20.3"
 2- 32° 53' 04.1" 117° 29' 30.1"
 3- 32° 52' 53.2" 117° 29' 28.6"
 4- 32° 51' 59.1" 117° 30' 12.6"
 5- 32 52 48.3 117 29 37
 6 32 52 27.2 117 29 25.3
 7 32 52 30.1 117 29 46.8
 8 32 52 27.5 117 30 05
 9 32 52 18.5 117 30 11.9
 10 32 52 06.7 117 30 03.7

11- 32 51 38.3 117 29 37.2
 12- 32 51 37.6 117 29 55.7
 13- 32 51 37.3 117 30 15.2
 14- 32 53 15.3 117 29 48.5

Birdwistle NR





NMP/71/224

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 MAP ACCURACY: The average accuracy of this map is ± 25 metres in the horizontal position of well defined detail and ± 5 metres in elevation.
 MAP RELIABILITY: Topographic information shown on this map is correct to 1970.
 ROAD CLASSIFICATION: Roads are classified according to their intended function as part of the national road system.

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