

FIELD DATA SHEETS

OAKP01 → OAKP11 + OAKP13 (Wetland)

OAK PARK RESERVE - WALYMOURING

SHIRE OF GOOMALLING



Wildflower Society Logo:
Lechenaultia biloba

Prepared by the
Wildflower Society of Western Australia (Inc.)
as part of the
Bushland Plant Survey Project
for the
Oak Park Catchment Group Inc.

This herbarium accompanies the following report:
Gunness, A.G. and Volunteers of the Bushland Plant Survey Project (2001). The vegetation and
flora of Oak Park shire reserve in the Shire of Goomalling. (Wildflower Society of WA (Inc.),
Nedlands.)



This project was supported by funds from the Bushcare Program of the Natural Heritage Trust (1998-1999).
Support was also provided by the Department of Conservation and Land Management.

58 species incl 9 ady → 49 incl 8 weeds.

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

GOOMALLING

BUSHLAND AREA OAK PARK RESERVE SITE NUMBER OAK P1

DATE TRIP 18-9-99 RECORDERS SYLVIA DAVID HELEN KELD AARON ANNE

DATE TRIP _____ RECORDERS _____

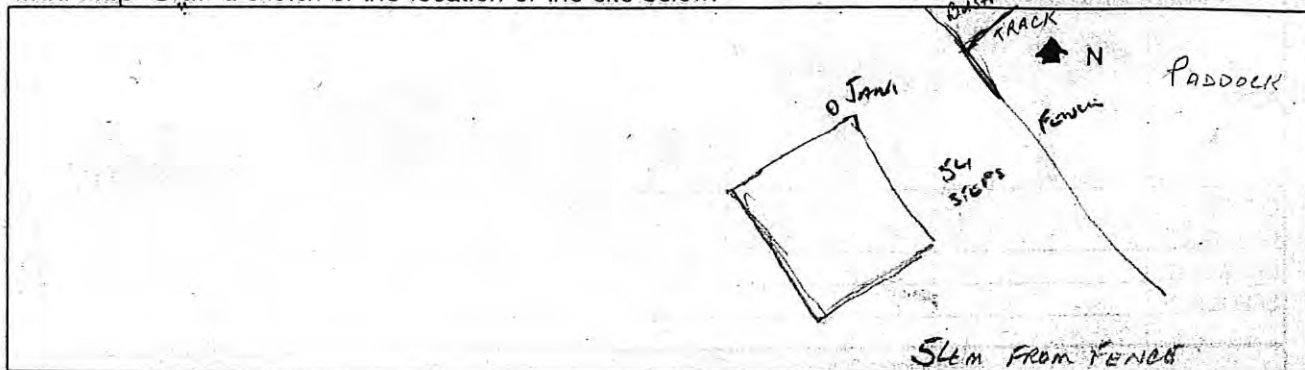
DATE TRIP _____ RECORDERS _____

BOTANIST _____

1. LOCATION of the QUADRAT

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

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



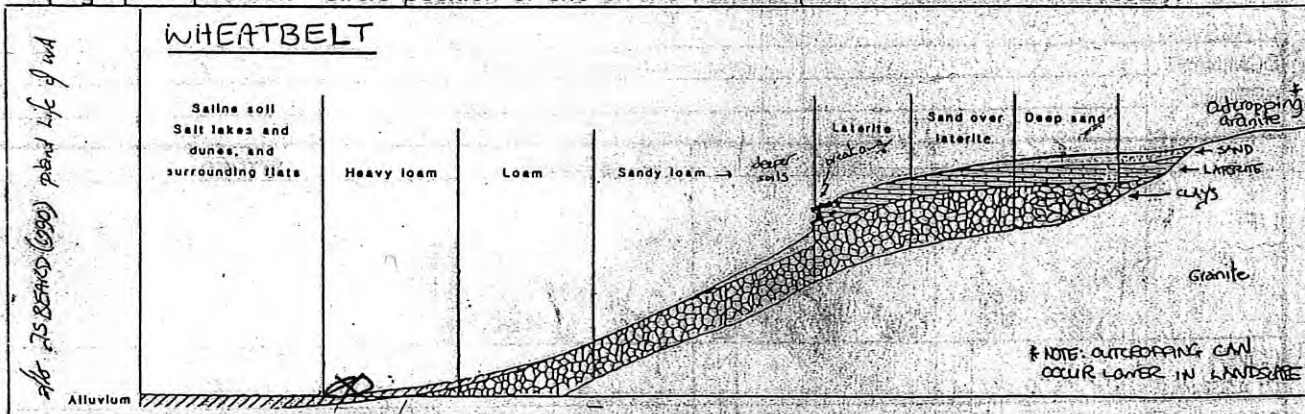
Road Location Oak Park Rod / Botterley East Road.

Geographic Location Latitude: 31°07'30.7"S Longitude: 116°52'45.2"E Altitude: 258 ± 4.2

Reference Map Grid: 31°07'48.4" 116°52'57.1"

Photograph Photographer's Name: BRIAN Photo No: 4

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



2. SITE DATA Circle the correct response.

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

Surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite Colour brown

Exposed rock: type _____ % surface _____

Sub-surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite Colour _____

Rock: type _____ depth to rock _____

Drainage: well, (mod), poor depth water _____ cm Wet: all year (winter) spring

Litter: _____ % cover _____ Bare Ground: - 2 % cover

Depth: _____ cm

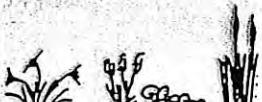
BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class 2-10% 11-30% 31-70% over 71%

LIFE FORM	TREES			MALLEES		
	over 30m	10 - 30m	under 10m	over 8m	under 8m	
						30m 10m
COVER CLASS (%)		PLANT No. ↓	No. ↓	No. ↓	No. ↓	2% Acacia acuminata 5
DOMINANT SPECIES *				moved		
	SHRUBS over 2m			SHRUBS 2m - 1m		
						
LIFE FORM						
COVER CLASS (%)	No. ↓			No. ↓		
DOMINANT SPECIES *	Allocasuarina campestris					
	GRASSES			HERBS		
						
LIFE FORM						
COVER CLASS (%)	2-10			30-70%		
DOMINANT SPECIES *	Amphipogon badius			Boerhaavia sphaerocarpa + assorted		
	SEDGES			OTHER		
						
LIFE FORM						
COVER CLASS (%)	2-10%			2 dead logs		
DOMINANT SPECIES *	Schoenus clandestinus					

WEEDS - % COVER

Trees/Mallees	%	COMMENTS
Shrubs	%	ALMOST NONE
Grasses	%	1 CARPWEED
Herbs	%	
Sedges	%	

4. VEGETATION CONDITION SCALE

1	'PRISTINE'		COMMENTS
2	EXCELLENT	✓	
3	VERY GOOD		
4	GOOD		
5	DEGRADED		

* If more than 3 dominant species write "mixed".

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No 02X P 1.

Date 18 - 9 - 99.

25. 10. 99.

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

Record on Sheet

- Column 1 plant name-
- Column 2 plant number
- Column 3 flowering time- record flower colour
if species flowering
- Column 4 identification check

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

TREES	No	Fl	ID	SHRUBS (cont.)	No	Fl	ID	HERBS (cont.)	No	Fl	ID
								DROSER A MACROPHYLLA	27	-	✓
								VALLERIA CYCNOPTAMICA	28	P	✓
								CHAMAECILLA COMBOSA	29	B	✓
								STYLIDIUM PETIOLAT	31	P	✓
								LORANDRA sp? - inkish spec.	32	-	? ✓
MALLEES				* Vulpia myuros NIS	59	✓		Phyllagrium sulcatum	35	✓	✓
				Ara canophyllea NIS 30	58	✓		HYDROCYCLE CALLICARPA	36	-	✓
				Briza maxima	33	✓		Labellio tenuior (probably)	37	-	✓
				GRASSES				DROSER A ACANTHA ssp macrantha	41	W.	✓
				NEURACME ALOPECUROIDEA	7	✓	✓	DROSER A mesantha ssp mac. pink form	42	P	✓
				AUSTROSTIRA ELEGANTISSIMA	8	✓	✓	TINY DAISY Rhodanthe laevis	40	Y	✓
SHRUBS				Grass Amphipogon strictus	9	✓	✓	WAITZIA acuminata (2 forms)	43	I	✓
ACACIA ACUMINATA	1	✓	✓	Grass AMPHIPOGON STRICTUS	11	✓	✓	Thelymitra antennifera	44	Y	✓
PROCARPURA COMPASTRIS	2	✓	✓	CAPENEED ARCTITHECA CALENDULA	38	✓	✓	SEDGES			
" FEMALE	3	✓	✓	NISK OATS * Avena fatua	39	-	✓	BORYA sphacelaphala	4	✓	✓
DAMPiera loriculata	5	B	✓	CLOVER TRIFOLIUM SUBTERRANEUM	42	✓	✓	TINY SEDGE - Schoenus CLAUDESTRINEUS	10		✓
DIANELLA REVOLUTA	6	Bud	✓	Austrostipa elegantissima NIS	59	✓	✓	ARA (2 SPEC) carophylla	30	✓	✓
ASTROLOMA SERRATOPALMUM	25	-	✓	AUSTROSTIRA HEMIPOGON	28	✓	✓	BRIZA MAXIMA	33	✓	✓
COMERSPERMA integerimum	23	B	✓	HERBS AUSTROSTIRA HEMIPOGON	4	✓	✓	HYPICHRERIS GRASSA	34		✓
				Vallera cycnopotamica	12	✓	✓	Rhodanthe citrina	40	Y	✓
				PARIENTELLA labella	13	✓	✓				
				GURHARDIA ambellata	14	CR	✓	ADJ			
Herbs cont				OPERCULARIA (2 SPEC) Naginata	15	✓	✓	SILFENI AIPACUCASIA SUBSP MIPACUCASIA	45	R	✓
				CERSEA alfordii	16	Bud	✓	Rhagodia drummondii	46	✓	✓
Vallera cycnopotamica	60			Dichopogon - preissii (pink flower)	17	M	✓	DAMPIERA (PINK FLOWERS) LAVANDULACEAE	48	P	✓
Isotoma hypocrateriformis	6			DROSER A subhirtella ssp subhirtella	18	Y	✓	THIBERIA RAMULOSA	49	O	✓
Gonocarpus nodulosus NIS			✓	PINK DAISY - Lawrenceella rosea	19	P	✓	Thelymitra villosa	50		✓
Labellia tenuior NIS = 37			✓	YELLOW DAISY (2 SPEC) Gilkerti	20	Y	✓	DIARRIS	51		
Trachymene cynopetala NIS			✓	BLUE ORCHID Cyanicula grammata	21	B	✓	PRASYPHYLLUM cyphochilum	52	✓	✓
Labellia heterophylla	62	-	✓	PODOLEPSIS lessortii	24	Y	✓	BIRD ORCHID 2c 2l Cyanicula gemina	53		✓
				RHO DAN THE MANGLIOSI	25	P	✓	GOODENIA BEARDSIA	54	Y	✓
				DROSER A GRANDILOQUA	26	O	✓	ECHOZOMA genistoides	55	Y	✓

Opp. *Hydrocotyle glutinosa*
 SANTALUM *sp glutinosum*
 SPICATUM

AT 115

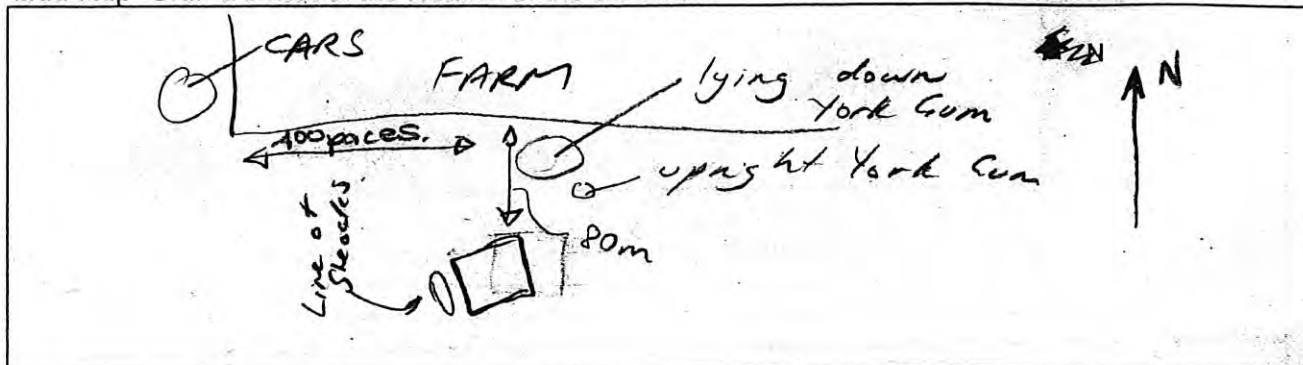
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA OAKPARK RESERVE SITE NUMBER OAKP 02
 DATE TRIP 18/9/97 RECORDERS Wendy, Marty, Vanda, 1?
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST Bronwen Keighery

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.

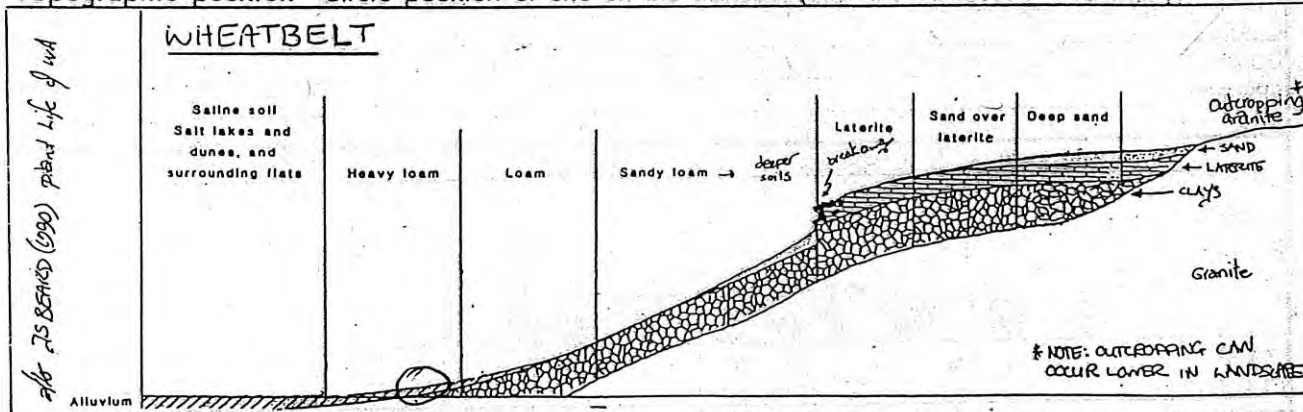


Road Location NA

Geographic Location Latitude: 31° 07' 53" S Longitude: 116° 53' 17" E Altitude: 434 ± 150
 Reference Map Grid: 31° 07' 51.2" 116° 53' 10.5"

Photograph Photographer's Name: Brian Moyle Photo No: 5a6

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



2. SITE DATA Circle the correct response.

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

BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class	2-10 %	11-30 %	31 - 70%	over 71%
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TREES										MALLEES	
over 30m		10 - 30m		under 10m		over 8m		under 8m			
LIFE FORM											
COVER CLASS (%)	PLANT No. ↓		No. ↓		No. ↓		No. ↓		No. ↓		
DOMINANT SPECIES*											
SHRUBS over 2m											
LIFE FORM											
COVER CLASS (%)	2-10		No. ↓		10-30%		No. ↓				
DOMINANT SPECIES*	<i>Acacia acuminata</i>		<i>Grevillea paniculata</i>		2						
SHRUBS under 1m											
LIFE FORM											
COVER CLASS (%)											
DOMINANT SPECIES*											
GRASSES											
LIFE FORM											
COVER CLASS (%)	No. ↓		> 70%		No. ↓		No. ↓		No. ↓		
DOMINANT SPECIES*			<i>Operculina</i>		3						
HERBS											
LIFE FORM											
COVER CLASS (%)											
DOMINANT SPECIES*			<i>Borya</i>		4						
SEDGES											
LIFE FORM											
COVER CLASS (%)											
DOMINANT SPECIES*											
OTHER											
LIFE FORM											
COVER CLASS (%)											
DOMINANT SPECIES*											

WEEDS - % COVER

Trees / Malters	%	COMMENTS
Shrubs	%	$< 2\%$ * Biza * Arena * Ar. foliosa
Grasses	%	
Herbs	%	
Sedges	%	
	%	

4. VEGETATION CONDITION SCALE

		COMMENTS
1	'PRISTINE'	
2	EXCELLENT	See weed
3	VERY GOOD	
4	GOOD	VERY PRETTY
5	DEGRADED	

* If more than 3 dominant species write "mixed".

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No 0AKP 02

Date 18/9/95

25/10/95

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-

• Column 4 identification check

record flower colour
if species flowering

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

SS →

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
				HERBS				<i>Hydrocotyle callicarpa</i>	17	✓	✓
				<i>Wurmbea</i> sp. <i>penella</i>	41	✓	✓	<i>Valleya cycnophylla</i>	18	Pu	✓
				<i>Tribonanthes longipetala</i>	42	✓	✓	<i>Dichella revoluta</i>	19	✓	✓
				<i>Conostylis prostrata</i>	43	✓	✓	<i>Dichopogon preissii</i>	20	✓	✓
				* <i>Hypochaeris glabra</i>	44	✓	✓	* <i>Arctotheca celandula</i>	21	✓	✓
				<i>Thelymitra</i> <i>antennaria</i>	45	✓	✓	<i>Drosera glanduligera</i>	22	Or	✓
MALLEES								<i>Ophroglossum distans</i>	23	✓	✓
				GRASSES				<i>Rhodanthe mangleyi</i>	24	Pi	✓
				<i>Austrostipa triloophylla</i>	36	✓	✓	<i>Gnecarpus nodulosus</i>	25	-	✓
				* <i>Avena barbata</i>	32	✓	✓	<i>Chamaecilla conjuncta</i>	26	✓	✓
				<i>Amphipogon</i> = site 1 <i>pschus</i>	33	✓	✓	* <i>Ursinia antedoides</i>	27	✓	✓
SHRUBS				* <i>Baeia maxima</i>	34	✓	✓	<i>Prosopium</i> sp.	28	?	✓
<i>Acacia acuminata</i>	1	Y	✓	<i>Stipa elegantissima</i>	35	✓	✓	<i>Tricoryne</i> <i>tenella</i>	38	✓	✓
<i>Grevillea paniculata</i>	2	Cr	✓	<i>Austrostipa</i> <i>tenella</i>	36	✓	✓	SEDGES			
<i>Mitralia ramulosa</i>	5	Or	✓	<i>Neurachne alopecuroides</i>	37	✓	✓	<i>Schoenus naneus</i>	30	✓	✓
<i>Conesperma integrum</i>	40	✓	✓	* <i>Wulpia myurus</i>	NIS			<i>Lepidogermis costale</i>	31	✓	✓
				* <i>Wheat-Triticum aestivum</i>				<i>Parnassia</i> <i>popul</i>	29	✓	✓
				<i>Austrodanthonia aerea</i>	66	✓	✓	<i>Schoenus lepidostichus</i>	39	✓	✓
HERBS				HERBS				<i>Centrolepis leptophylla</i>	46	-	✓
<i>Wickhamia preissii</i>	47	W	✓	<i>Operculana vaginata</i>	3	✓	✓	<i>Centrolepis drummondii</i>	53	✓	✓
<i>Lobelia</i> 'red leaf' <i>tenuor</i>	48	-	✓	<i>Borgia spirocephala</i>	4	W	✓				
<i>Stylidium psittacum</i>	49	P	✓	<i>Laurencia</i> <i>masera</i>	6	P	✓				
<i>Phlox drummondii</i>	54	✓	✓	<i>Gubertia tenuifolia</i>	7	Y	✓				
<i>Gilbertia tenuifolia</i> NIS				<i>Goodenia becardiana</i>	8	Y	✓				
<i>Isotropis juncea</i>	55	✓	✓	<i>Burchardia umbellata</i>	9	W	✓	<i>Lomandra effusa</i>	50	✓	✓
<i>Podolepis canescens</i> NIS				<i>Trachymene cyanopectata</i>	10	W	✓	<i>Santalum spicatum</i>	51	✓	✓
<i>Lobelia heterophylla</i>	57	-	✓	<i>Trachymene ornata</i>	11	W	✓	<i>Dampiera laurifolia</i>	52	Bl	✓
				<i>Stylidium calceolatum</i>	12	P	✓	<i>Drosera mariantha</i> ssp. <i>mariantha</i>		✓	✓
				<i>Phlox dactyloides</i>	13	-	✓				
				<i>Ceratogone obionoides</i>	14	W	✓	<i>Vernicordia chrysanthella</i>		✓	✓
				<i>Waitia acuminata</i>	15	Or	✓				
				* <i>Paranthesia laticata</i>	16	✓	✓	<i>Drosera subhirtella</i> ssp.			

males: *Stylidium leptophyllum* *subhirtella*

Caladenia denticulata

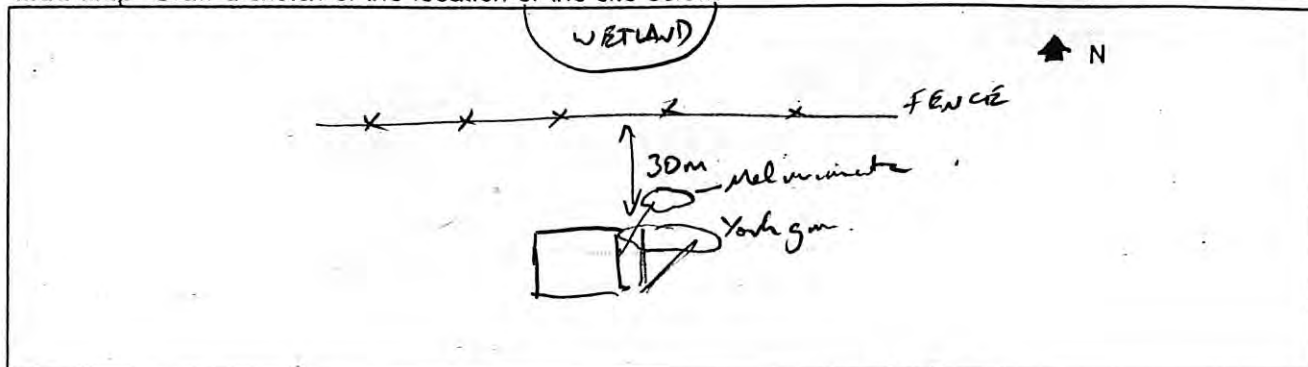
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Oak Park Res SITE NUMBER OAKP 3
 DATE TRIP 18-Sept-1999 RECORDERS Kate, Jeff, Rose, John, Alie, Neil
 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 Botharling East Rd.

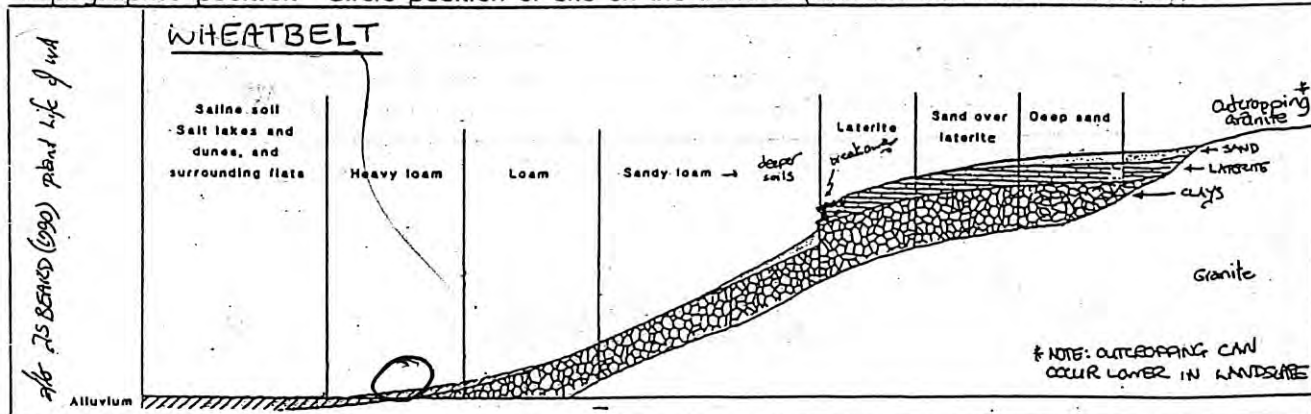
Geographic Location Latitude: 31° 07' 48.3" S Longitude: 116° 52' 48.4" E Altitude: 349 ± 78

Reference Map Grid: 31° 07' 48.3" 116° 52' 48.4"

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: <u>flat</u> gentle steep	Aspect: N NE E SE S SW W NW
Surface Soil: sand, loamy sand, <u>sandy loam</u> , loam, clay, laterite	Colour <u>LIGHT BROWN</u>
Exposed rock: type <u>NAIR</u>	% surface <u>(Dry)</u>
Sub-surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite	Colour _____
Rock: type _____	depth to rock <u>clay 15cm</u>
Drainage: well, <u>mod</u> , poor	depth water _____ cm
Wet: all year <u>winter/spring</u>	
Litter: _____	% cover _____
Depth to <u>1cm</u> cm	Bare Ground: <u>20</u> %cover

BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class 2-10% 11-30% 31-70% over 71%

LIFE FORM	TREES		MALLEES	
	over 30m	10 - 30m	over 8m	under 8m
				
COVER CLASS (%)			30-70	
DOMINANT SPECIES*			YORK GUM	
	SHRUBS		SHRUBS	
	over 2m		under 1m	
				
COVER CLASS (%)	2-10		30-70	
DOMINANT SPECIES*	HAKEA PARVIFLORA SANTALUM ACUM		ALBIS DAMPieri BARNOSTYLIS lehmanniana DAVIDSONIA benthamii ALBIS OTHER ACHANA	
	GRASSES	HERBS	SEDGES	
				
COVER CLASS (%)	2-10	30-70		
DOMINANT SPECIES*	STIPA ELEGANS	MIXED		

WEEDS - % COVER

Trees/Mallees	%	COMMENTS
Shrubs	%	
Grasses	22%	
Herbs	22%	
Sedges	%	

4. VEGETATION CONDITION SCALE

1	PRISTINE	COMMENTS Annual weeds
2	EXCELLENT	
3	VERY GOOD	
4	GOOD	
5	DEGRADED	

* If more than 3 dominant species write "mixed"

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No DAK P3

Date 18/9/99

25/10/99 (6) →

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.
- Column 4 identification check

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

TREES				No FI ID				SHRUBS (cont.)				SEDGE				No FI ID				HERBS (cont.)				No FI ID																																															
								SHEENUS NANUS				BRN				57				✓				PARENTUCELIA GLATIFOLIA				Pnk				26				✓				✓																															
																								TRACHYMENE ORNATA				Wht				30				✓				✓																															
								TRACHYMENE PLOSA (CHROMOPHYLLIC VARIANT WITH LONG CESTLES)								206				✓				* Flat weed * Hypochaeris				Y/W				31				✓				✓																															
								* ISOLEPIS MARGINATA				? 57								✓				CALADENIA HERTA				Pink				32				✓				✓																															
																								PROSERA MACRANTHA				Pink				33				✓				✓																															
MALLEES								* Avena barbata																* ERODIUM CYGNORIUM				BL				34				✓				✓																															
Eucloxyphleba				1				- ✓				* Lolium rigidum								67				✓				✓				PLANTAGO debilis								35				✓				✓																							
												GRASSES																								HYDRACOTYLE PUFERA in GIGANTEA				36				-				✓																							
								* BRIZA MAXIMA								25				✓				✓												PHYLANTHUM SUCCATUM				Wht				37				✓				✓																			
								* BROMUS RUBENS				GRN				27				✓				✓												CALANDRINA GRANULIFERA				Wht				38				✓				✓																			
SHRUBS								* VULPIA MYRUS				GRN				28				✓				✓												HYALOPHYLLA CONTINOSA ssp. CONTINOSA				39				✓				✓																							
OLEARIA DAMPIERI subsp. DEMICOLA				2				✓				AUSTRODANTHONIA SEGOMILLII				GRN				29				✓				✓												BRACHYOME PERPUSCILLA				YL				40				✓				✓															
EREMOPHILA LEHMANNIANA				White				3				✓				✓				VULPIA MYRUS				44				✓				✓												HRADANTHE PYGMAEA				41				Y				✓				✓											
SANTARUM MACRANTHA								4				✓				AUSTROSTIPA ELEGANTISSIMA				GRN				47				✓				✓												SEDGES																											
ACALIA ACULARIA				Yellow				5				✓				✓				AUSTROSTIPA TRIMORPHA				GRN				48				✓				✓												TRY GLOCHIN sp. aff. calcitrago				42								✓				✓							
CAVALIA SPINESUNS				White				6				✓				✓				RYE GRASS * Lolium rigidum				58A				✓				✓												LAURENCELLA ROSEA				Pink				43				✓				✓											
EREMOPHILA DELICENS				Red				7				✓				✓				AUSTROSTIPA ELEGANTISSIMA				66				✓				✓												BULBINEA SEMIBARBATA								45								✓				✓							
STYLOBASIMUM AUSTRALE				J. A.				8				✓				✓				HERBS																								CRASSULA COLORATA var. COLORATA				46				✓				✓															
RHAGODIA DRUMMONDII								9				-				✓				PODOLIPIS LEESONII				Yellow				12				✓				✓												DORRUS GLOCHIDIATUS								49				-				✓				✓			
DAVESIA BENTHAMII ssp. BENTHAMII				J. A.				10				✓				✓				PODOLIPUS CAPILARIS				Yellow				13				✓				✓												SANDRUS OBERACEUS								50				-				✓				✓			
GREVILLEA HAREAOIDES ssp. HAREAOIDES								11				R				✓				Dichopogon M. PREISSII				Purple				14				✓				✓												CHAEMAESCULACORYMPOSA								51								✓				✓			
Maireana MARGINATA								22				-				✓				COMESPERMA INTEGRAMMATA				CRM				15				✓				✓												WALBURGIA PREISSII								52								✓				✓			
+ seeds																				PODOTHCHA GNATHOLOIDES				YLW				16				✓				✓												WUBERIA TENUIORIS								53								✓				✓			
																				* URSINIA ANTHEMOIDES				YLW				17				✓				✓												CERATO GYNI OBINOODES								54				✓				✓							
																				GOODENIA BEARDIANA				YLW				18				✓				✓												RHODANTHE LAEVIS				YL				55				✓				✓							
																				SENGCIO GLOSSANTHUS				YLW				19				✓				✓												GILBERTIA TENUIAFORA				YL				56				✓				✓							
																				TRACHYMENA CYANOPETALA				BLUE				20				✓				✓												Blasys Spora phlegmatocarpa				YL				58				✓				✓							
																				LEMANDRA EFFUSIA								21				✓				✓												OXALIS PERENNENS				YL				59				✓				✓							
																																												CAPEWEED * AUSTROTHECA CALENDULA				YL				60				✓				✓											
																																												CENTROLEPIS HUMILISSIMA				61				A				✓				✓											
																				BLENDOSPORA DRUMMONDII				CRM				23				✓				✓												CALANDRINEA ERAMAERA				Pink				62				✓				✓							
																				* ANNAGALIS AUSTRALIS				BLUE				24				✓				✓												THYSONOTUS MARGLESII				63				out				✓				✓							

(mixed)

PTO

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 042 P 3	Record on Sheet	• Column 1	plant name -	From 'Buckland Plant Survey' notes
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Date	8/9/99	Column 2	plant number	11
------	--------	----------	--------------	----

Record on Sheet • Column 1 plant name- From "Rustland Plant Survey" written by

- Column 1 plant name-
 - Column 2 plant number
 - Column 3 flowering time- record flower colour
if species flowering
 - Column 4 identification check
- From 'Bushland Plant Survey' written by
B. Keighery (1994) and published by the
Wildflower Society of WA (Inc.), PO Box
64 Nedlands WA 6008.

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
MALLEES				GRASSES							
				ADJ NERAMNE ALOPECUROIDEN	206	✓	✓				
SHRUBS											
ADJ MEL UNCENATA (NO SPEC)			✓					SEDGES			
HAKA PRIESSEII YL	200	✓	✓								
AMEYMA MIRACULOSUM Subsp MIRACULOSUM Red	201	✓	✓								
TEMPLETONIA SULCATA	202 B	✓	✓								
PODOLEPIS CANESCENS	203	✓	✓								
ACCIA ERANACEA YL	205	✓	✓	HERBS							
PETALOGONIUM HALLASSAE			✓	RHODANTHI MAGLESII	64 P	✓	✓				
				Milola major	65	✓	✓				
				Lobelia heterophylla	68 -	✓	✓				
				Waitzia acuminata	69 OR	✓	✓				
				Centrolepis polygyna	616	✓	✓				

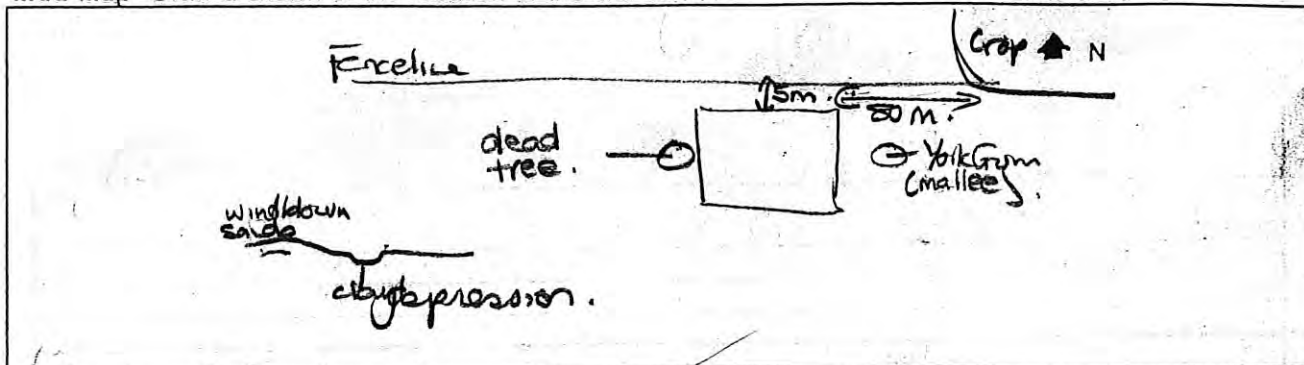
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA OAK PARK SITE NUMBER OAKP4
 DATE TRIP 18/9/99 RECORDERS Jacqui, Rosemary, Doreen, Logan
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST Ann

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.

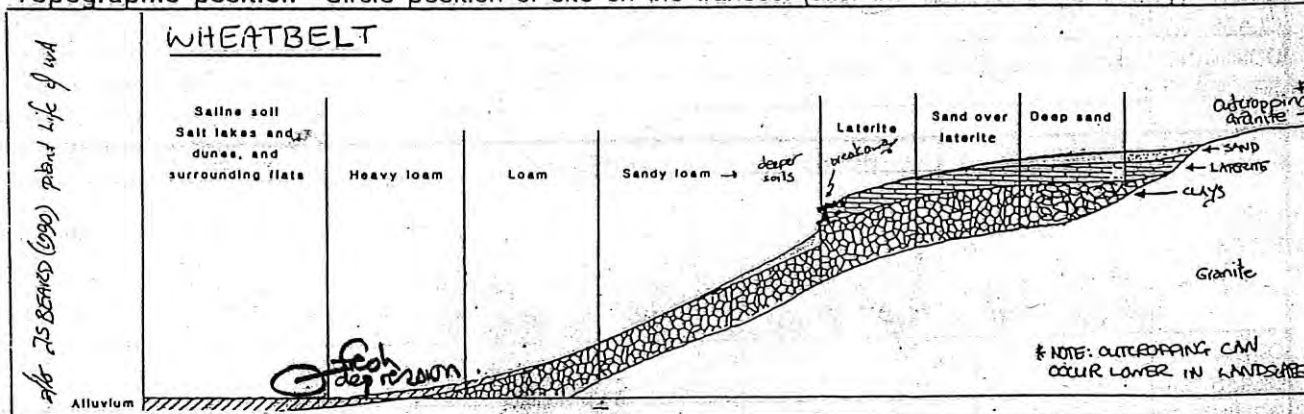


Road Location

Geographic Location Latitude: 31° 07' 802 S Longitude: 116° 52' 858 E Altitude: 251.48
 Reference Map Grid: 31° 07' 48.1" 116° 52' 51.5"

Photograph Photographer's Name: Brian Moyle Photo No: 3

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



2. SITE DATA Circle the correct response.

Slope: flat gentle steep steep Aspect: N NE E SE S SW W NW
 Surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite | Colour grey brown
 Exposed rock: type laterite % surface
 Sub-surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite | Colour
 Rock: type | depth to rock
 Drainage: well, mod, poor depth water 5 cm Wet: all year winter/spring
 Litter: <5 % cover Bare Ground 10-15 % cover
 Depth syk leaf cm 10-15 % water 40-50%

Chorizanthe sadgeland with emergent Hakea preissii

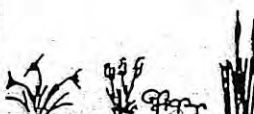
BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class 2-10% 11-30% 31-70% over 71%

		TREES			MALLEES	
		over 30m	10 - 30m	under 10m	over 8m	under 8m
LIFE FORM						
COVER CLASS (%)						
DOMINANT SPECIES*						
		SHRUBS			SHRUBS	
		over 2m	2m - 1m	under 1m		
LIFE FORM						
COVER CLASS (%)						
DOMINANT SPECIES*						
		GRASSES		HERBS	SEDGES	OTHER
LIFE FORM						
COVER CLASS (%)						
DOMINANT SPECIES*						

WEEDS 2% COVER

4.

VEGETATION CONDITION SCALE

1	'PRISTINE'		COMMENTS
2	EXCELLENT	✓	
3	VERY GOOD		
4	GOOD		
5	DEGRADED		

Trees/mallees	%	COMMENTS
Shrubs	%	
Grasses	%	
Herbs	2%	
Sedges	%	

* If more than 3 dominant species write "mixed"

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

SITE No **OAKP 4**

Date **18.9.99**

25.10.99 **56**

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
- Column 4 identification check

record flower colour
if species flowering

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

GRASSES	TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Austrodanthonia setacea</i>	56	✓	✓		<i>Crotalaria Brachyscome PEARCEANA</i>	48	✓	✓	<i>STYLIDIUM INUNDATUM</i> (pink)	23	P	✓
<i>Amphibromus nervosus</i>	57	✓	✓		<i>Ophioglossum LUSITANICUM</i>	49	✓	✓	<i>Hydrocotyle RUGULOSA</i>	24	-	✓
* <i>Bromus diandrus</i>	58	✓	✓		<i>Red stems - Unidentifiable</i>	50	✓	✓	<i>Triglochin SP. aff. calcitrapae</i>	25	✓	✓
<i>Eriosthis PREISSII</i>	60	✓	✓		<i>Calandrinia granulifera</i>	51	W	✓	<i>Gilberta tenuifolia</i> (spec. missing)	26	Y	✓
* <i>Austrostipa TENUIFOLIA</i>	61	✓	✓		<i>Isolochin SP. aff. calcitrapae</i>	52	✓	✓	<i>Podolepis STREPTOPHYLLA</i>	27	Y	✓
					<i>Vellera cyrenopotamica</i>	53	-	✓	<i>Blennospora drummondii</i>	28	G	✓
MALLEES					<i>Podolepis canescens</i>	54	✓	✓	<i>Hydrocotyle PUMPERA</i> var. <i>GLABRATA</i>	31	✓	✓
					* <i>Angelesia arvensis</i>	55	✓	✓	* <i>Ursinia andromeda</i>	32	Y	✓
					GRASSES				<i>Calandrinia</i> <i>eremaea</i>	33	P	✓
					<i>Austrostipa TENUIFOLIA</i>	36	✓	✓	* <i>Prasophyllum</i> <i>gracile</i>	34	✓	✓
					<i>Neurachne abscissa</i>	38	✓	✓	<i>Hypoxis GLABRATA</i> var. <i>LEPTANTHA</i>	35	Y	✓
SHRUBS					* <i>Ara canophylla</i>	39	✓	✓	<i>Lamandra SP. (infertile)</i>	45	✓	✓
<i>Hakea preissii</i>	1	✓	✓		* <i>Vulpia myuros</i>	40	✓	✓	<i>Drosera glandulifera</i>	46	Or	✓
<i>Grevillea pinnatifida</i> subsp. <i>hakeoides</i>	3	✓	✓		* <i>Bromus rubens</i>	41	✓	✓	SEDGES			
<i>Rhaphia Drummondii</i>	4	-	✓		* <i>Lolium perenne</i> x <i>L. rigidum</i>	42	✓	✓	<i>Chorizandra enodis</i>	2	✓	✓
<i>Scabiosa spinescens</i>	5	-	✓		* <i>Rhaphia LONGILOBA</i>	43	✓	✓	* <i>Solepis caerulea marginata</i>	29	✓	✓
<i>Wilsonia humilis</i>	6	✓	✓		* <i>Ehrharta longiflora</i> (infertile spec. missing)	44	✓	✓	* <i>Schoenus humilis</i> x 2	30	✓	✓
<i>Fraxia ALVARIA</i>	7	-	✓		* <i>Enza maxima</i>	45	✓	✓	<i>Centrolepis ? patungyne</i>	47	✓	✓
<i>Comesperma integrum</i>	8	✓	✓		HERBS				<i>Schoenus tenellus</i>	59	✓	✓
<i>STYLIDIUM AUSTRALIS</i>	9	-	✓		<i>Drosera macrantha</i> subsp. <i>macrantha</i>	10	W	✓	* <i>Ursinus litorius</i>	74	✓	✓
<i>STYLIDIUM MICROPHYLLUM</i> var. <i>MINOR</i>	37	✓	✓		* <i>Parentucellia latifolia</i>	11	P	✓	<i>SEDG. (in next community is not worked)</i>			
* <i>RHAGODIA Drummondii</i>	8	-	✓		<i>Podolepis lessonii</i>	12	Y	✓	<i>Grey spiny shrub fls. ERINACEAE</i>	Adis	-	✓
<i>Pisgion (purple centre)</i>					<i>Lawrencea rosea</i>	13	P	✓	<i>Melaleuca</i> (pink)		✓	✓
<i>Olearia dampieri</i> subsp. <i>eremica</i>	at	✓	✓		* <i>Hypochaeris glabra</i>	14	Y	✓	<i>Thysanotus manglerianus</i>	70	✓	✓
Adjacent to October					* <i>Microtheca calandula</i>	15	Y	✓	<i>Isotropis juncea</i>	Ork	✓	✓
<i>Isotropis juncea</i>	69	Or	✓		<i>Pichopogon preissii</i>	16	P	✓	<i>Drosera</i> (pink)		✓	✓
<i>Podolepis pusilliflora</i>	1	-	✓		<i>Podolepis capillaris</i>	17	Y	✓	<i>subhirtella</i> (yellow)		✓	✓
<i>WILSONIA HUMILIS</i>					<i>Polargonium Erodium cygnarum</i>	18	P	✓	<i>Borja</i>		✓	✓
<i>BLENNOSPORA Drummondii</i>	A48	✓	✓		<i>Trachymene ornata</i>	19	-	✓	<i>Eriophila Lehmanniana</i>	Made	✓	✓
<i>COTULA CORONOPHOLIA</i>	B48	Y	✓		<i>Trigonostema longipetala</i>	20	W	✓	<i>Red Eriophila decipiens</i>	R	✓	✓
					<i>Gnamptelasma complanata</i>	21	A	✓	<i>Avena barbata</i>		✓	✓
<i>Stylidium calceolatum</i>	22	P	✓		<i>Stylidium ecome</i> (pink)	22	P	✓	<i>Olearia dampieri</i> var. <i>humilis</i>		✓	✓
					<i>Trachymene dampieri</i>	62	✓	✓	<i>Templetonia sulcata</i>		✓	✓
					<i>Trochium tomentosum</i>							

(Sept spec. missing)
Spec missing

no spec.

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. OAK P 4.

Record on Sheet

- Column 1 plant name-
- Column 2 plant number
- Column 3 flowering time- record flower colour
if species flowering
- Column 4 identification check

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

Date _____

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
MALLEES				GRASSES				SEDGES			
SHRUBS											
GREVILLEA HAKEADODES subsp. HAKEADODES											
ADJ				HERBS (cont)							
Brachyscome PERPUSILLA				Isotome hypocrateriformis				63 W ✓			
Crassula decumbens				Erymophyllum tenellum				64 Y ✓			
Hypolaenae glutinosum (W.S.)				Goodenia hakeadocana				65 Y ✓			
Crassula colorata var. calanthe				Scaevola ovata				66 G ✓			
Canastylis leptocarpa				Podolepis canescens				67 Y ✓			
Plantago debilis				Sonchus oleraceus W.S.				68 ✓			
GOODEA BERARDIANA				Crassula decumbens				69 ✓			
Drosera subhirtella ex subhirtella				" decumbens				70 ✓			
Drosera macrantha sub macrantha				Calandrinia grandiflora (group)				71 ✓			
ISOTROPIS JUNCEA				Glossostigma drummondii				72 ✓			
EREMOPHYLLUM TENELLUM				Goodenia micrantha				73 ✓			
BRIZA MAXIMA				Cotula coronopifolia Oct (W.S.)				75 opt ✓			
				ISOTROPIS JUNCEA				76 Y ✓			

TEMPLETONIA SALATA
OLEARIA DAMPIERI VAR ERENICOLA

PTILOTHUS DECLINATUS

ADJ W

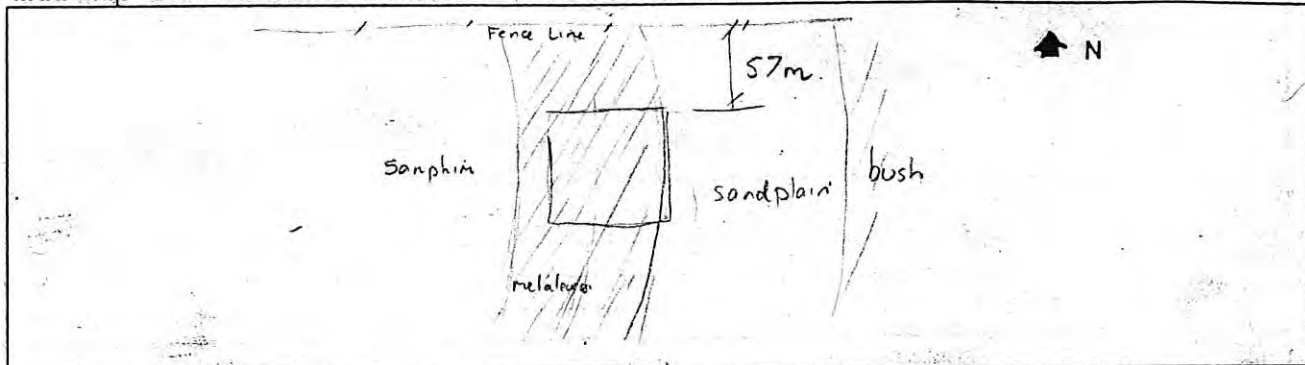
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA OAK PARK - GOOMALLING SITE NUMBER OAKPS
 DATE TRIP 18/9/99 RECORDERS Helen, Keld, Alan, Anne, Sylvia, David
 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.



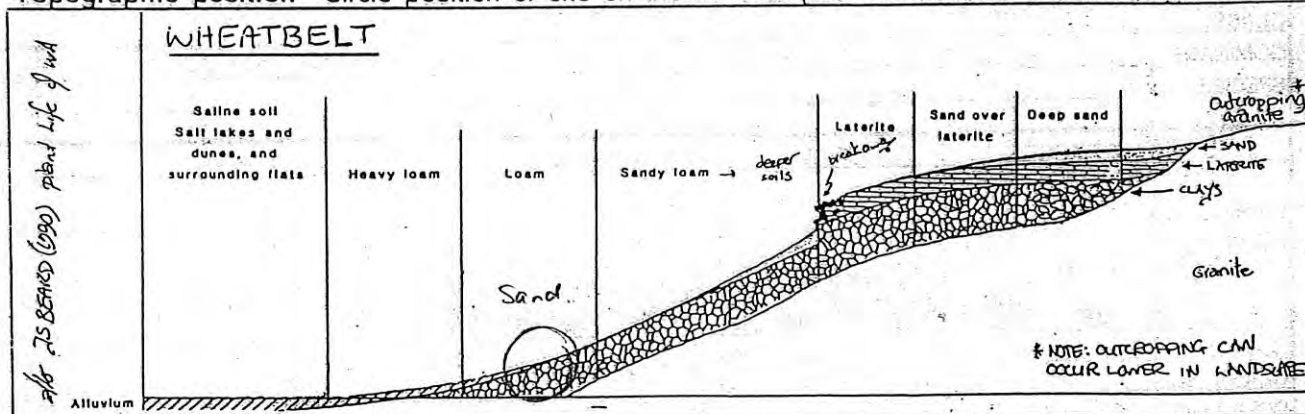
Road Location

Geographic Location Latitude: 31° 07' 82.4" S Longitude: 116° 52' 69.7" E Altitude: 218 ± 4

Reference Map Grid: 31° 07' 49.4" 116° 52' 41.8"

Photograph Photographer's Name: Brian Moyle Photo No: 14

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



2. SITE DATA Circle the correct response.

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

Surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite Colour white
 Exposed rock: — type % surface

Sub-surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite Colour grey
 Rock: — type depth to rock

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

Litter: 2-10 % cover Bare Ground 31-70 % cover
 Depth cm

BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class	2-10%	11-30%	31-70%	over 71%
-------------	-------	--------	--------	----------

TREES										MALLEES			
		over 30m		10 - 30m		under 10m		over 8m		under 8m			
LIFE FORM													
	—		—		—		—		—				
	No. ↓		No. ↓		No. ↓		No. ↓		No. ↓				
	DOMINANT SPECIES*												
SHRUBS over 2m LIFE FORM COVER CLASS (%) 31 - 70 DOMINANT SPECIES* Melaleuca uncinata hamulosa SHRUBS 2m - 1m LIFE FORM COVER CLASS (%) < 2% DOMINANT SPECIES* Scholtzia parviflora SHRUBS under 1m LIFE FORM COVER CLASS (%) < 2% DOMINANT SPECIES* Rhagodia drummondii													
GRASSES LIFE FORM COVER CLASS (%) < 2 DOMINANT SPECIES* mixed HERBS LIFE FORM COVER CLASS (%) < 2% DOMINANT SPECIES* SEDGES LIFE FORM COVER CLASS (%) < 2% DOMINANT SPECIES* OTHER LIFE FORM COVER CLASS (%) < 2% DOMINANT SPECIES* 1 seedling eucalyptus, loxophleba													

WEEDS - % COVER

Trees / Maltrees	%	COMMENTS
Shrubs	%	
Grasses	< 2 %	
Herbs	%	
Sedges	%	

4. VEGETATION CONDITION SCALE

1	'PRISTINE'		COMMENTS
2	EXCELLENT		
3	VERY GOOD	✓	
4	GOOD		
5	DEGRADED		

* If more than 3 dominant species write "mixed".

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- record flower colour
if species flowering
- Column 4 identification check

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

[illegible]

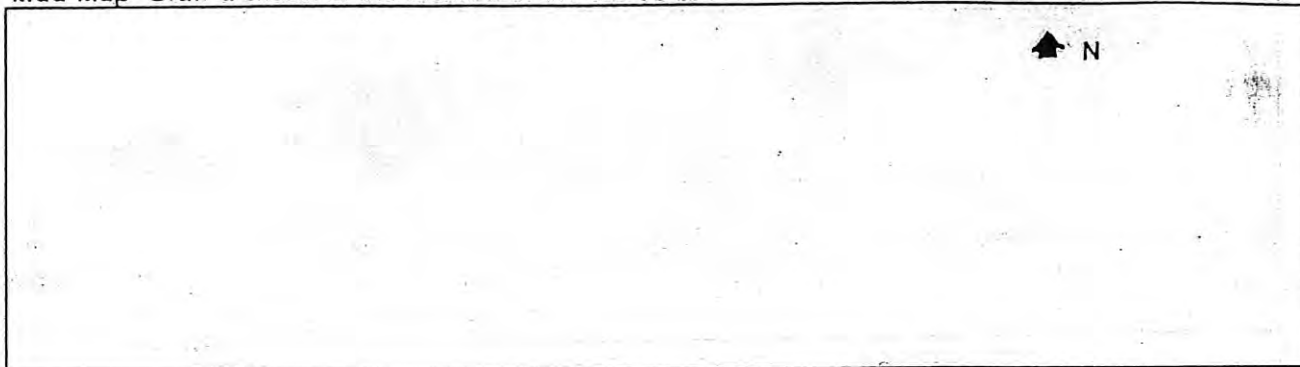
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA OAK PARK RESERVE SITE NUMBER OAK P 06
 DATE TRIP 18/9/99 RECORDERS Linda, Wendy, Marty, Vanda
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST BJK

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.

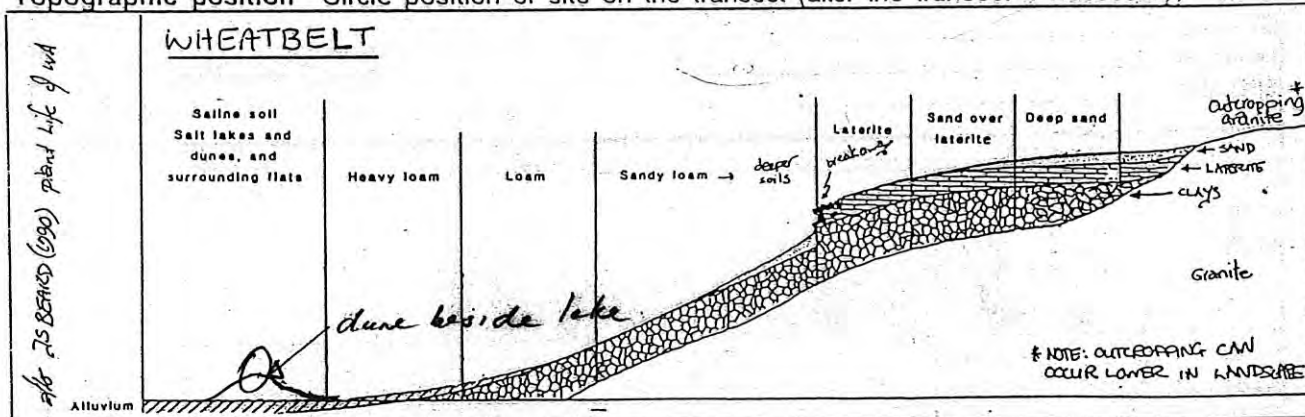


Road Location NA

Geographic Location Latitude: 31° 07' 48.7" S Longitude: 116° 52' 41.9" E Altitude: 230 ± 47
 Reference Map Grid: 31° 07' 48.7" 116° 52' 41.9"

Photograph Photographer's Name: Brian Mayle Photo No: 8, 9

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



2. SITE DATA Circle the correct response.

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

Surface Soil: sand loamy sand, sandy loam, loam, clay, laterite Colour white
 Exposed rock: type _____ % surface _____

Sub-surface Soil: sand loamy sand, sandy loam, loam, clay, laterite Colour pale brown
 Rock: type _____ depth to rock _____

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

Litter: _____ 10 % cover _____ Bare Ground _____ 30 % cover
 Depth _____ cm

dead Banksia

BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

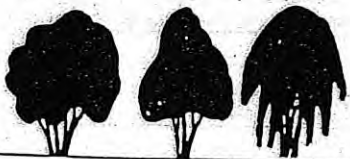
3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class 2-10% 11-30% 31-70% over 71%

TREES										MALLEES	
	over 30m	10 - 30m		under 10m		over 8m		under 8m			
LIFE FORM				Most dead 3 living, all in plot						30m 10m	
COVER CLASS (%)		PLANT No. ↓	No. ↓	2-10%	No. ↓		No. ↓		No. ↓		
DOMINANT SPECIES*				Banksia praecox 1							

SHRUBS				SHRUBS	
	over 2m		2m - 1m		under 1m
LIFE FORM					
COVER CLASS (%)		No. ↓		No. ↓	2-10%
DOMINANT SPECIES*					Calytrix angulata 2

GRASSES		HERBS		SEDGES		OTHER	
LIFE FORM							
COVER CLASS (%)	2-10	No. ↓	10-30%	No. ↓	2-10	No. ↓	No. ↓
DOMINANT SPECIES*	Amphib. herb 3		Pod. gray 4 Urs. ank 6 Borja lasinata 6		Lepidobolus pei 8 Schoenus subarcticus 8		

WEEDS - % COVER

Trees/mallees	%	* COMMENTS
Shrubs	%	* Urs. ank
Grasses	%	* Hyp. glabra
Herbs	10-30%	
Sedges	%	

4. VEGETATION CONDITION SCALE

	COMMENTS
1 'PRISTINE'	
2 EXCELLENT	
3 VERY GOOD	
4 GOOD	
5 DEGRADED	

* If more than 3 dominant species write "mixed".

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 OAKP 06

Record on Sheet

Date 18/8/99

25/10/99

41 →

- Column 1 plant name-
- Column 2 plant number
- Column 3 flowering time- record flower colour if species flowering
- Column 4 identification check

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Banksia praecox</i>	1	-	✓					<i>Hyalosperma demissum</i>	30		✓
								<i>Caladenia flava</i> subsp. <i>subsp.</i>	31	✓	✓
								<i>Tick Tock</i> - <i>Erodium cicutarium</i>	32	✓	✓
								<i>Quintaria urvillii</i>	33	-	✓
								<i>Wahlenbergia capensis</i>	42		✓
								<i>Podolysia ferruginea</i>	46	Gr	✓
MALLEES				<i>Pentstemon girardii</i>	44	✓	✓				
				<i>Vulpia myuros</i> N/S.	43		✓				
				GRASSES <i>AUSTROSTILIA VARIABILIS</i>	25	✓	✓				
				<i>Amphipogon furcatus</i>	3	✓	✓				
				<i>Amphipogon furcatus</i>	17	✓	✓				
SHRUBS				<i>Avena barbata</i> (✓)	20	✓	✓				
<i>Calytrix tetragyna</i>	2	Gr	✓	<i>Eriochorda longiflora</i>	21	✓	✓				
<i>Rhagodia drummondiana</i>	9	-	✓	<i>Borra mairiana</i>	22	✓	✓	SEDGES			
<i>Oleandra amplicarpa</i>	10		✓	<i>Neesochloa alopec</i>	23	✓	✓	<i>Lepidobolus preissianus</i>	7	✓	✓
<i>Muehlenbeckia complexa</i> N/S	11		✓	<i>Stipa mecalpini</i> (annul)	24	✓	✓	<i>Stachys subululata</i>	8		✓
				<i>Stipa tenuifolia</i> (P)	25	✓	✓	<i>Centrolepis pilosa</i> (Cham.)	26		✓
				<i>Austrostylis elegantissima</i> N/S.	41		✓				
				HERBS <i>AUSTROSTILIA VARIABILIS</i>	25	✓	✓				
				<i>Podolysia gnaphaloides</i>	4	X	✓	<i>Opaculana vaginata</i> N/S			✓
				<i>Ursinia anthemoides</i>	5	✓	✓	<i>ADJ</i> <i>Grevillea kaneana</i>	41	R	✓
				<i>Borja laevis</i>	6	W	✓	<i>Enostylis aculeata</i>	34	X	✓
				<i>Colaptes merrima</i>	12		✓	<i>ADJ</i> <i>Calytrix reschenaiana</i>	35	Pa	✓
				<i>Podolysia canescens</i>	13	Y	✓	<i>Tetrasora fasciculata</i>	36	Or	✓
				<i>Orthospermum clandestinum</i>	14	✓	✓	<i>Panicum inandulatum</i>	37	D	✓
				<i>Dianella revoluta</i>	15		✓	YORKGUM NEXT DOOR			
				<i>Hypochaeris glabra</i>	16	✓	✓	<i>Eremophila subululata</i>	38	Y	✓
				<i>Blennospora phlegmarocarpa</i>	18	Y	✓	<i>Personia chapmaniana</i>	39	-	✓
				<i>Crossula calocarpa</i> var. <i>calocarpa</i>	19	✓	✓	<i>Caladenia hirta</i> subsp.	40		✓
				<i>Hydrocotyle gibberna</i>	28	✓	✓	<i>rosea</i>			
				<i>Caladenia granulifera</i>	28	-	✓	<i>TRACHYMENE CILIOLATA</i>		OPP	✓
				<i>Podolysia angustifolia</i>	29	-	✓				

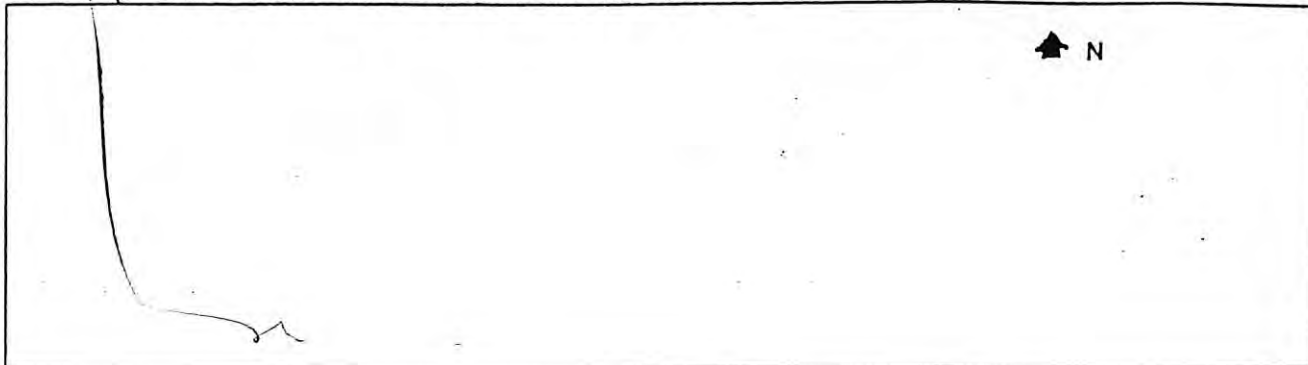
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Oak Park 7 SITE NUMBER OAK P 7
 DATE TRIP 18/9/99 RECORDERS Kate, John, ~~Jeff~~, Neil
 DATE TRIP _____ RECORDERS Alice
 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.



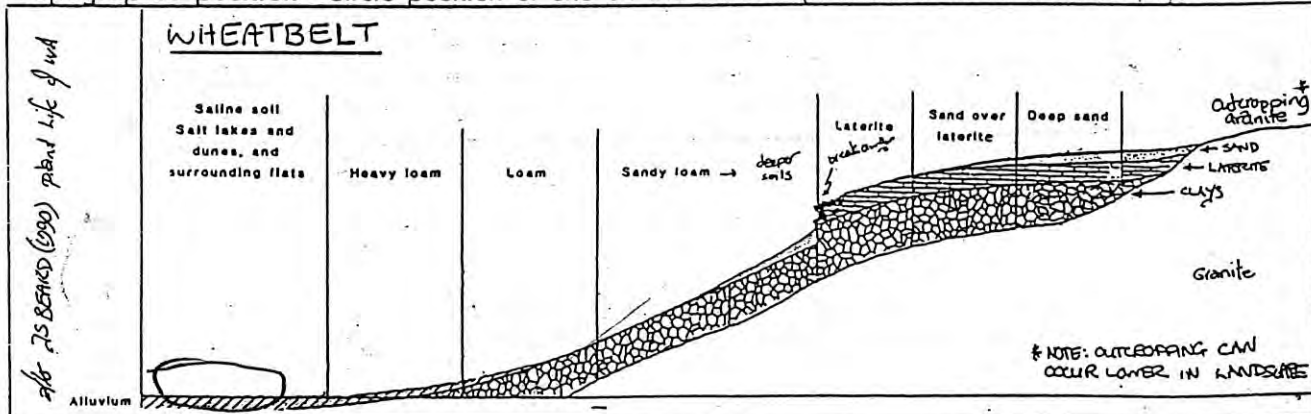
Road Location Batherling east Rd

Geographic Location Latitude: 31° 07' 22.3" S Longitude: 116° 52' 6.9" E Altitude: 231 ± 51

Reference Map Grid: 31° 07' 49.4" 116° 52' 40.1"

Photograph _____ Photographer's Name: B. M Photo No: 12, 13

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



2. SITE DATA Circle the correct response.

Slope: <u>flat</u> gentle steep	Aspect: N NE E SE S <u>SW</u> W NW
Surface Soil: sand, loamy sand, <u>sandy loam</u> , loam, clay, laterite	Colour <u>BROWN</u>
Exposed rock: type <u>N/A</u> % surface	<u>(wet)</u>
Sub-surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite	Colour <u>DARK BROWN</u>
Rock: <u>N/A</u> type <u>sand + clay + laterite</u> depth to rock	
Drainage: well, mod, <u>poor</u> depth water <u>N/A</u> cm	Wet: all year <u>winter/spring</u>
Litter: <u>2%</u> % cover	Bare Ground: <u>60</u> % cover
Depth	cm

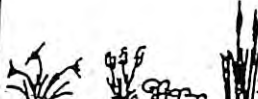
BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class	2-10 %	11-30 %	31 - 70%	over 71%
-------------	--------	---------	----------	----------

		TREES			MALLEES		
		over 30m	10 - 30m	under 10m	over 8m	under 8m	
LIFE FORM							30m 10m
COVER CLASS (%)							
DOMINANT SPECIES*							
		SHRUBS			SHRUBS		
		over 2m	2m - 1m	under 1m			
LIFE FORM							2m 1m
COVER CLASS (%)							
DOMINANT SPECIES*				<i>Halosarcia lepidosperma</i> <i>Halosarcia pergranulata</i>			
		GRASSES		HERBS	SEDGES	OTHER	
LIFE FORM							
COVER CLASS (%)		11-30%		2-10%			
DOMINANT SPECIES*		<i>Helium miltiplex</i> <i>Parapholis incurva</i> <i>Hordeum geniculata</i>		<i>Calandrinia granulifera</i>			

WEEDS - % COVER

Trees / Mallee	%	COMMENTS
Shrubs	%	
Grasses	20 %	
Herbs	%	
Sedges	%	

4. VEGETATION CONDITION SCALE

	PRISTINE		COMMENTS
1	EXCELLENT		<i>Cassia obscura</i>
2	VERY GOOD		<i>York Gum</i>
3	GOOD		<i>Melaleuca uncinata</i>
4	DEGRADED		all gone out due to rising water

i * If more than 3 dominant species write "mixed"

5. SPECIES PRESCENCE

SITE No Oak Point 7

Date 18/9/99

103→

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- record flower colour if species flowering
- Column 4 identification check

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

[illegible]

- Submitted to WA herb^m.

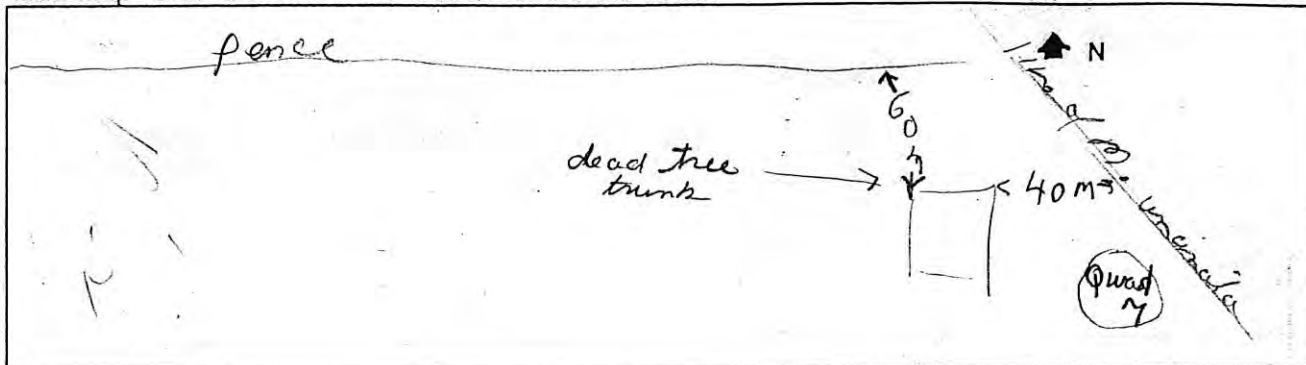
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Oak Park SITE NUMBER OAK p8
 DATE TRIP 18.9.99 RECORDERS Joski Rosmary Deirdre Logan
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST Ann

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.

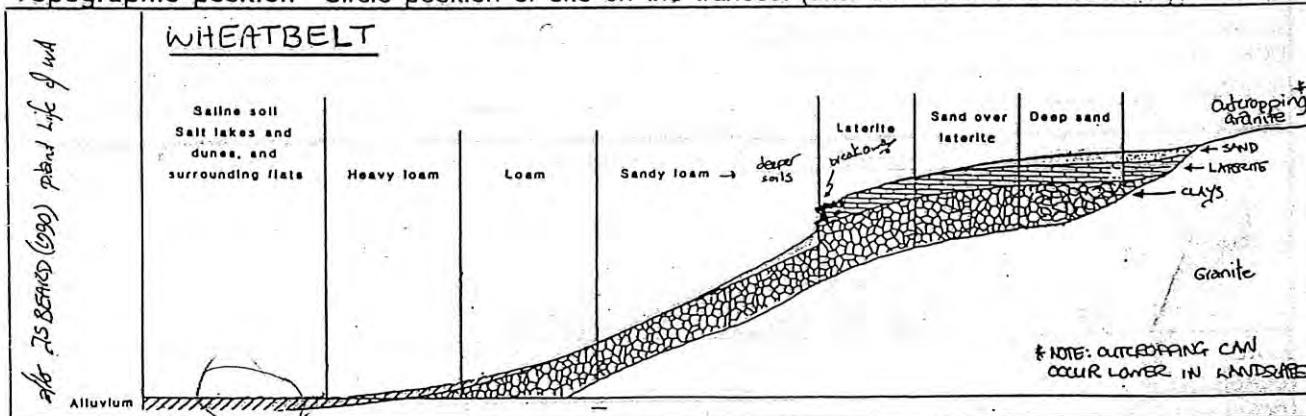


Road Location

Geographic Location Latitude: 31°07'83.7S Longitude: 116°52'64.7 E Altitude: 265 ± 33
 Reference Map used: 31°07'50.2" 116°52'38.8"

Photograph Photographer's Name: Brian Mayle Photo No: 13, 14

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



2. SITE DATA Circle the correct response.

Slope: <u>flat</u> gentle steep	Aspect: N NE E SE S SW W NW
Surface Soil: sand, <u>loamy sand</u> , sandy loam, loam, clay, laterite	Colour <u>grey brown</u>
Exposed rock: <u>type</u>	% surface
Sub-surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite	Colour
Rock: <u>type</u>	depth to rock
Drainage: well, mod, <u>poor</u> depth water cm	Wet: all year <u>winter/spring</u>
Litter: <u><.5</u> % cover	Bare Ground <u><.5</u> % cover
Depth <u>upto 40</u> cm	

Samphire flat to emergent melaleuca

BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class 2-10% 11-30% 31-70% over 71%

TREES						MALLEES		
	over 30m	10-30m	under 10m	over 8m	under 8m			
LIFE FORM			 			30m	10m	
COVER CLASS (%)	—	—	—	—	—	No. ↓	No. ↓	
DOMINANT SPECIES*								
SHRUBS over 2m				SHRUBS 2m - 1m		SHRUBS under 1m		
LIFE FORM	  		  		   		2m	1m
COVER CLASS (%)					11-30		No. ↓	
DOMINANT SPECIES*					<i>Halosarcia lepidosperma</i> <i>Halosarcia indica</i>		1 2	
GRASSES		HERBS		SEDGES		OTHER		
LIFE FORM	 		  		  		1m	
COVER CLASS (%)	50		11-30				No. ↓	
DOMINANT SPECIES*	<i>Hordeum glaucum</i> <i>Echinochloa polystachya</i>		<i>Hypochaeris glabra</i> <i>Calidrynia gracilis</i> <i>Crassula stricta</i>					

WEEDS - % COVER

Trees/Mallees	%	COMMENTS
Shrubs	%	
Grasses	50%	
Herbs	%	
Sedges	%	

4.

VEGETATION CONDITION SCALE

		COMMENTS <i>Shine tolerant, weedy grasses - Transitional community & shrubs (Meli, Coo - dying out)</i>
1	'PRISTINE'	
2	EXCELLENT	
3	VERY GOOD	
4	GOOD	
5	DEGRADED	

* If more than 3 dominant species write "mixed"

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No 044P 8

Date 18.9.99

25.10.99

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

Record on Sheet

- Column 1 plant name
- Column 2 plant number
- Column 3 flowering time- record flower colour (if species flowering)
- Column 4 identification check

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

32 →

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
								*Osteospermum clandestinum	28	✓	✓
								*Hypochaeris glabra	29	✓	✓
								*Scaevola aemula	30	✓	✓
								*Spergularia rubra	31	P	✓
								*Centaurium erythraea	32	P	✓
								*Plantago coronopus	37	Gr	✓
MALLEES								*Inula tomentosa	38	+	✓
				GRASSES							
				*Lolium multiflorum x L. perenne	5	✓	✓				
				*Ehrharta longiflora	6	✓	✓				
				*Hordeum marinum	7	✓	✓				
				*Avena barbata	8	✓	✓				
SHRUBS				Eragrostis dielsii	11	P	✓	SEDGES			
Halosarcia lepidosperma	1	-	✓	*Paranthesis incurva	22	✓	✓	Centrolepis humillima	18	✓	✓
Halosarcia inornata ssp. BIDENS	2	-	✓	*Bromus hordeaceus	33	✓	✓	Centrolepis polygyna	19	✓	✓
Didymanthus roei	3	✓	✓	* * molle	33	✓	✓	*Junus latifolia	20	✓	✓
Metaleuca uncinata	4	-	✓					Schoenus palmeri	21	✓	✓
Enchophora lanata	9	-	✓					Centrolepis glabra	22	✓	✓
Wilsonia humilis seedling	36	✓	✓	HERBS							
				HYALOCHEILIS GLOBIFERA	10	✓	✓	Adj. Casuarina obesa		✓	✓
				Grassula colorata var. aluminata	12	✓	✓	Metaleuca blanda subsp. latifolia		✓	✓
				Calandrinia granulifera	13	-	✓	Schoenus humilis		✓	✓
				Triglochin mucronatum	14	gr	✓	Plantago coronopus		✓	✓
				Sesuvium ovata	15	gr	✓	Metaleuca uncinata NLS		✓	✓
				Calandrinia granulifera	16	may	✓				
				Cotula cotuloides	17	gr	✓				
				Pogonolopus stricta	21	-	✓				
				*Arctostaphylos calendula	23	gr	✓				
				Triglochin nanum	24	✓	✓				
				*Cotula bipinnata	25	✓	✓				
				Artemisia annuum	26	-	✓				
				Gnaphalium triflorum	27	✓	✓				

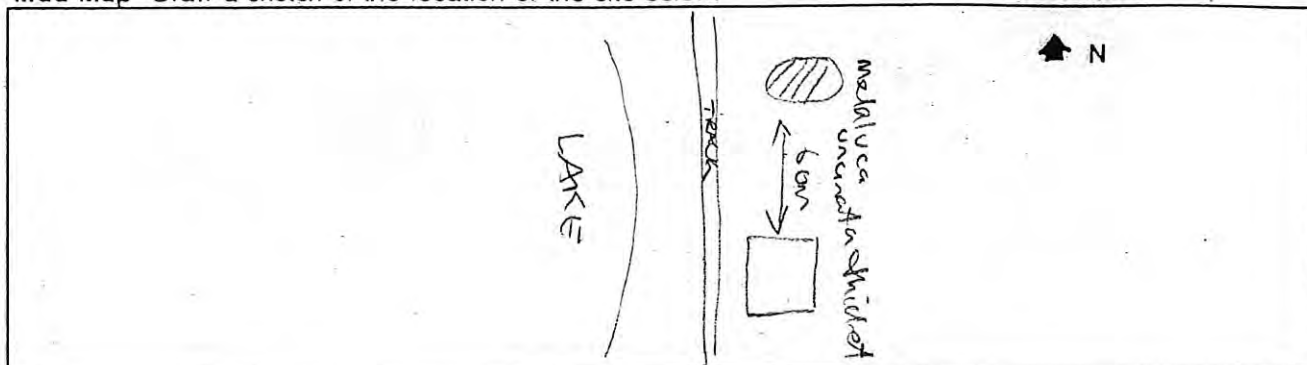
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA OAKPARK RESERVE SITE NUMBER OAKP 9
 DATE TRIP 19/9/99 RECORDERS NEIL / ALICE / LOGAN / VANDA
 DATE TRIP _____ RECORDERS GEOFF / SALLY White
 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.



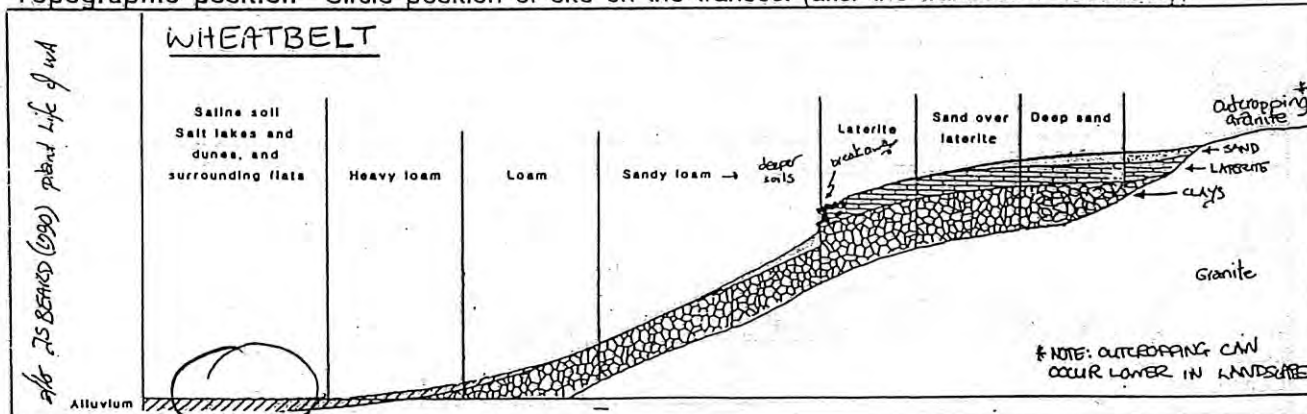
Road Location

Geographic Location Latitude 31° 07' 9.12" S Longitude: 116° 52' 7.4" E Altitude: 318+-5.1

Reference Map used: 31° 07' 54.7" 116° 52' 42.2"

Photograph Photographer's Name: Brian Photo No: 81, 22, 2

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



2. SITE DATA Circle the correct response.

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

Surface Soil: (sand) loamy sand, sandy loam, loam, clay, laterite Colour Light brown
 Exposed rock: type N/A % surface wet

Sub-surface Soil: (sand) loamy sand, sandy loam, loam, clay, laterite Colour Light brown
 Rock: N/A type depth to rock wet

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

Litter: 40 % cover Bare Ground: less than 2%
 Depth up to 1cm cm

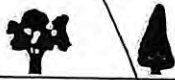
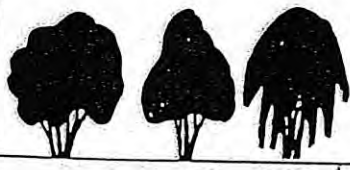
BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class 2-10% 11-30% 31-70% over 71%

		TREES			MALLEES	
		over 30m	10-30m	under 10m	over 8m	under 8m
LIFE FORM						
COVER CLASS (%)						2-10
DOMINANT SPECIES*						Euc. Loxophoea Adjacent to site
		SHRUBS			SHRUBS	
		over 2m	2m-1m	under 1m		
LIFE FORM						
COVER CLASS (%)		10-30%		2-10%		
DOMINANT SPECIES*		Acacia acuminata		Rhagodia drummondii		
		GRASSES		HERBS	SEDGES	OTHER
LIFE FORM						
COVER CLASS (%)		2-10%	over 70%	2-10%		
DOMINANT SPECIES*		Stipa elegantissima	Podochloa gracilis Culbetheria tenui Borlya lauridula	Lepidopiliopsis pressii		

WEEDS - % COVER

Trees/Mallees	%	COMMENTS
Shrubs	%	
Grasses	50%	
Herbs	10%	
Sedges	%	

URSINIA
FLAT WEED

4. VEGETATION CONDITION SCALE

1	'PRISTINE'		COMMENTS Some weedy (patches) grasses
2	EXCELLENT	✓	
3	VERY GOOD		
4	GOOD		
5	DEGRADED		

* If more than 3 dominant species write "mixed".

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESCENCE

SITE No OAK P 9

Date 19/9/99

25.10.99

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

Record on Sheet

49 →

- Column 1 plant name-
- Column 2 plant number
- Column 3 flowering time- record flower colour if species flowering
- Column 4 identification check

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
								<i>Viscaria anthracodes</i> yellow	28	✓	✓
								<i>Parentucella latifolia</i> purple	29	✓	✓
								<i>Osteospermum clandestinum</i> yellow	30	✓	✓
								<i>Thysanotus mangelsii</i> purple	31	✓	✓
								<i>Waltzia acuminata</i> orange	32	✓	✓
								<i>Caladrea hirtelliflora</i> pink	33	✓	✓
MALLEES				<i>Aveia barbata</i> ✓	34	✓	✓	<i>Brunonia australis</i>	35	✓	✓
				<i>Heptastemon aroides</i> ✓	38	✓	✓	<i>Calandrinia eximiae</i>	36	-	✓
				GRASSES				<i>Borja laciniata</i>	37	✓	✓
				<i>Aristida elegantissima</i> white	7	✓	✓	<i>Podlepis caplaris</i> yellow	40	✓	✓
				<i>Neelbuccina abnormis</i> grey	9	✓	✓	<i>Walterbeeria preissii</i>	41	✓	✓
				<i>Monacather paradoxus</i>	10	✓	✓	<i>Polyanthus brachyrrhizus</i>	42	-	✓
SHRUBS				<i>Briza maxima</i> (spec. missing) dis.	11	✓	✓	<i>Calandrinia calandrinia</i>	43	✓	✓
<i>Acacia acuminata</i> yellow	1	✓	✓	<i>Ara carophyllifera</i>	13	✓	✓	SEDGES			
<i>Hakea preissii</i>	2	✓	✓	<i>Austrostipa macalpinei</i> ✓	17	✓	✓	<i>Lepidobolus preissii</i>	20	✓	✓
<i>Rhagodia drummondii</i>	3	-	✓	<i>Austrostipa variabilis</i> ✓	18	✓	✓				
<i>Strobilium australe</i>	4	-	✓	<i>Austrostipa sp. infera</i> prob. A. trichophylla	19	✓	✓				
<i>Dampiera laevigata</i> purple	5	✓	✓	<i>Vulpia myurealis</i>	34	✓	✓				
				HERBS				HERBS			
				<i>Dianella involuta</i>	6	✓	✓	<i>Daisy</i>	44	✓	?
				<i>Hypochaeris glabra</i> yellow	8	✓	✓	<i>Hyalosperma glutinosum</i> yellow	45	✓	✓
				<i>Polygonum baulassae</i> white	12	✓	✓	<i>Sonchus oleraceus</i>	46	✓	✓
				<i>Crassula decumbens</i>	14	✓	✓	<i>Caladrea longicauda</i> subsp.	47	✓	✓
				<i>Cratogeomys aroides</i>	15	✓	✓	<i>Cape weed</i> <i>Arenotheca ephedraefolia</i>	48	✓	✓
				<i>Erodium cicutarium</i>	16	P	✓	<i>Scabiosa extensoriflora</i>	49	✓	✓
				<i>Podlepis caninus</i> yellow	21	✓	✓	<i>Trachymene pilosa</i> - nospec.	50	✓	✓
				<i>Podlepis graphioides</i> yellow	22	✓	✓				
				<i>Brachycome iberidifolia</i> white	23	✓	✓				
				<i>Gilbertella tenuiflora</i> yellow	24	✓	✓				
				<i>Trachymene pilosa</i> (heteromorphic variant) white	25	✓	✓	<i>*Taguill nospec - could be Hyalosperma glutinosum</i>			
				<i>Lawsonia rosea</i> pink	26	✓	✓				
				<i>Gonolopia nodulosa</i>	27	-	✓				

(heteromorphic variant with short bristles)

PTO Adj

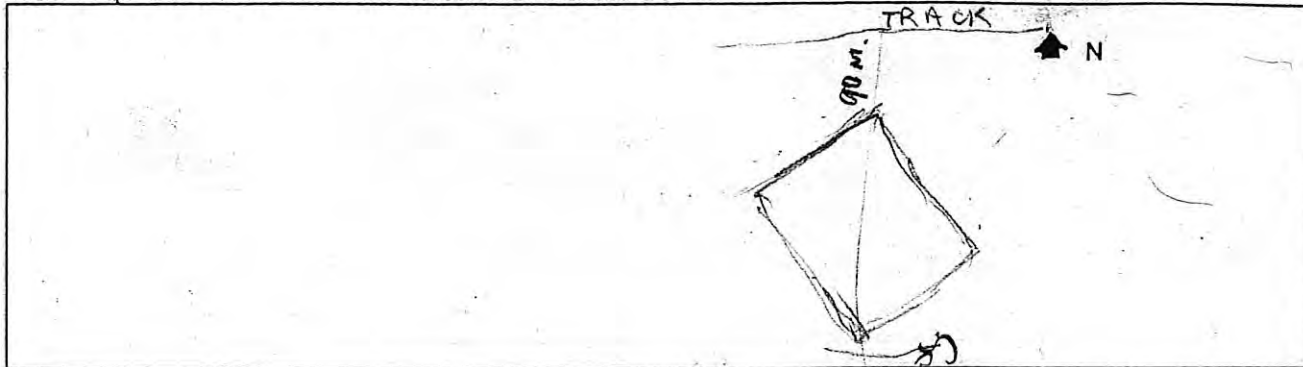
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA OAK PARK SITE NUMBER OAK P 10
 DATE TRIP 19/9/99 RECORDERS Helen, Keld, Sylvia, David, Wendy, Marky
 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: 31° 07' 944 S Longitude: 116° 52' 736 E Altitude: 358 ± 47

Reference Map Used:

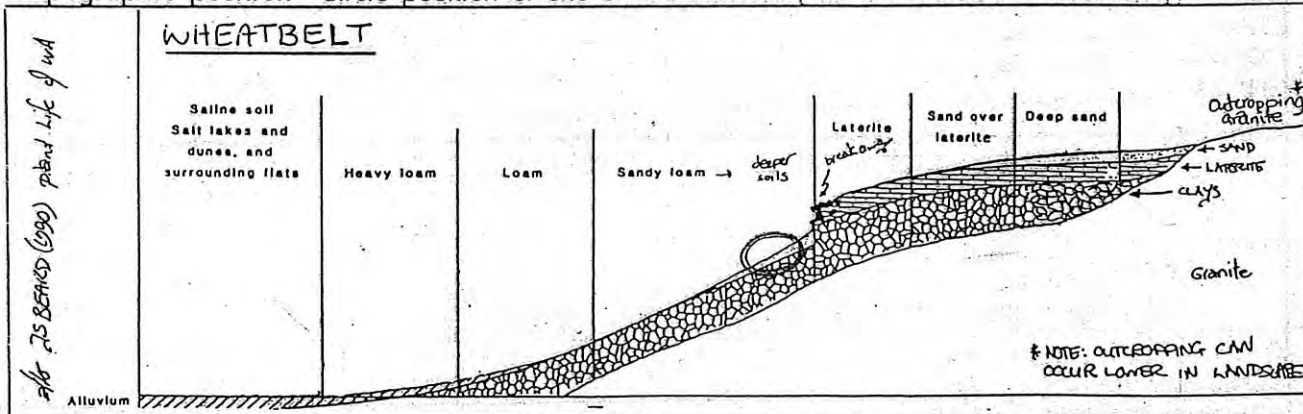
31° 07' 56.6" 116° 52' 44.2"

Photograph

Photographer's Name: BRIAN MOYLE

Photo No: 19/20

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



2. SITE DATA Circle the correct response.

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

Surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite Colour A

Exposed rock: type _____ % surface _____

Sub-surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite Colour _____

Rock: type _____ depth to rock _____

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

Litter: 30-70 % cover Bare Ground: 2-10 % cover
 Depth: <1 cm

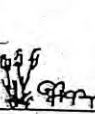
BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class 2-10% 11-30% 31-70% over 71%

		TREES				MALLEES	
		over 30m	10-30m	under 10m		over 8m	under 8m
LIFE FORM			 Check Height 12m Trees + mallees				
COVER CLASS (%)			10-30% 2-10%	<2%			
DOMINANT SPECIES*		1	Euc. loxophylla	1	Acacia acum.	1	
		SHRUBS				SHRUBS	
		over 2m		2m-1m		under 1m	
LIFE FORM							
COVER CLASS (%)		<2%		30-70%		2-10%	
DOMINANT SPECIES*		Acacia sp	1	MIXED		MIXED	
		GRASSES		HERBS		SEDGES	
LIFE FORM							
COVER CLASS (%)		2-10%		2-10%		<2%	
DOMINANT SPECIES*		Austroshya eleg		MIXED			
						OTHER	
LIFE FORM							
COVER CLASS (%)							
DOMINANT SPECIES*							

WEEDS - % COVER

Trees/Mallees	%	COMMENTS
Shrubs	%	
Grasses	<2%	
Herbs	%	
Sedges	%	

4. VEGETATION CONDITION SCALE

		COMMENTS
1	'PRISTINE'	
2	EXCELLENT ✓	
3	VERY GOOD	
4	GOOD	
5	DEGRADED	

* If more than 3 dominant species write "mixed"

BUSHLAND PLANT SURVEY RECORDING SHEET 3 - use pencil only

5. SPECIES PRESENCE

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

SITE No OAKP 10

Record on Sheet

Date 19-9-99

25-10-99

- Column 1 plant name -
- Column 2 plant number
- Column 3 flowering time - record flower colour (if species flowering)
- Column 4 identification check

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Euc. loxophleba</i>	1		✓					<i>Plantago debilis</i>	39	✓	✓
<i>Acacia acuminata</i>	2	✓	✓					Round Daisy. <i>ACTINOLE URGINOSUM</i>	40	✓	✓
								Tiny Dry sp. - moss fruiting body	41		discarded
								<i>Triglochin</i> sp. aff. <i>calceitrapa</i>	42		✓
								<i>Calandrinia granulifera</i>	43		✓
								<i>MAIREANA MARGINATA</i>	44	-	✓
MALLEES				<i>Bromus praetense</i> RUGENS	68	✓	✓	<i>Parentucella latifolia</i>	45	✓	✓
				<i>Vulpia myuros</i> NIS-			✓	<i>Eriogonum</i>	46		?
				GRASSES				3 Seed Heads <i>Brachyscome perpusilla</i>	47		✓
				<i>Austrostipa elegantissima</i>	19	✓	✓	<i>Crane's Bill</i> <i>ERODIUM CYANORUM</i>	48	✓	✓
				<i>Neurachne KROECKERIANA</i>	20	✓	✓	<i>Goodenia GERARDIANA</i>	50	✓	✓
SHRUBS				Small leaves <i>Euc. Bromus rubens</i>	21	✓	✓	<i>PHENOSPORA DRUMMONDII</i>	51	✓	✓
<i>Acacia</i> sp. <i>LINEASTRINA</i> (ground)	3	✓	✓	<i>Hordeum</i> sp. (poor material)	22	✓	✓	Yellow Flrs <i>Rhodanthe laevis</i>	52	✓	✓
<i>Scaevola spinescens</i>	4	✓	✓	<i>Brenea maxima</i>	23	✓	✓	SEDGES			
<i>Hakea preissii</i>	5	✓	✓	Dist. (Tall) <i>Avena barbata</i>	24	✓	✓	<i>Lomandra effusa</i>	49		✓
<i>Dawsonia benthamii</i> <i>cop. thomsonii</i>	6	✓	✓	<i>AUSTRODANTHONIA</i> <i>spec. sent to Terry</i>	25	✓	✓	<i>Centrolepis humilis</i> / sp.?	66		?
<i>Acacia</i> sp. (Pod) <i>ERINACEAE</i>	7	✓	✓	<i>Austrodanthonia</i> sp. <i>Goamallina</i> <i>spec. sent to Terry</i>	63	✓	✓	specimen missing.			
<i>Fremophila germaniana</i>	8	✓	✓	<i>Ercharta longiflora</i> NIS							
<i>Dampiera</i> sp. <i>lavandulacea</i>	9	✓	✓	HERBS							
<i>Dawsonia</i> sp. <i>TEMPLETONIA SALICATA</i>	10	-	✓	<i>Peltanionium hawlasdae</i>	26	✓	✓	<i>Fremophyllum ramosum</i> <i>spec. sent to Terry</i>			✓
<i>PLEURIA JONPHERI</i> <i>spec. sent to Terry</i>	11	-	✓	<i>Crassula caespitosa</i> var. <i>caespitosa</i>	27	R	✓	<i>Petalopsis capillaris</i>	63		✓
Salt Bush <i>Argemone drummondii</i>	12	-	✓	<i>Levinhookia dubia</i>	28	✓	✓	" <i>spec. sent to Terry</i>			✓
<i>Fremophila decipiens</i>	13	✓	✓	<i>Erymophyllum tenellum</i>	29	✓	✓	<i>Hydrocotyle PULFERTII</i> <i>spec. sent to Terry</i>	64		✓
<i>Acacia</i> sp. <i>australis</i> (Pod)	14	-	✓	<i>Trachymene ornata</i>	30	✓	✓	<i>Plantago debilis</i>	65	✓	✓
<i>STRAVASIUM AUSTRALE</i>	15	-	✓	<i>Natterbergia racemata</i> <i>preissii</i>	31	✓	✓	<i>Dichopogon preissii</i> NIS			✓
<i>Rhynchosia preissii</i> <i>subsp. reinesii</i>	16	✓	✓	Yellow Daisy <i>Petalopsis capillaris</i>	32	✓	✓	<i>Parentucella latifolia</i> NIS			✓
<i>Dianella revoluta</i>	17	✓	✓	<i>Trachymene cyanopetalata</i>	33	✓	✓				
<i>Bomarea integririmum</i>	18	✓	✓	<i>Goodenia harkniana</i>	34	✓	✓				
<i>Maireana marginata</i> = 44			✓	<i>Pink Everlasting</i> <i>AMERCELLA ROSA</i>	35	✓	✓				
<i>Templetonia sulcata</i> = 10			✓	<i>Relbunium glutinosum</i> <i>ssp. glutinosum</i>	36	✓	✓	Note: <i>Coesia occidentalis</i> in area			✓
<i>Acacia</i> <i>LIGUSTRINA</i> (Pod) 7-9	69	-	✓	<i>Petalopsis gnaphaloides</i>	37	✓	✓	(range extension).			
<i>TEMPLETONIA SALICATA</i> ? = 10		R	✓	Flat Weed <i>Hypochaeris glabra</i>	38	✓	✓				

5. SPECIES PRESCENCE

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

SITE No 0AKP 10

Record on Sheet

Date _____

- Column 1 plant name.

- Column 2 plant number

- Column 3 flowering time-

- Column 4 identification check

record flower colour
if species flowering

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

[illegible]

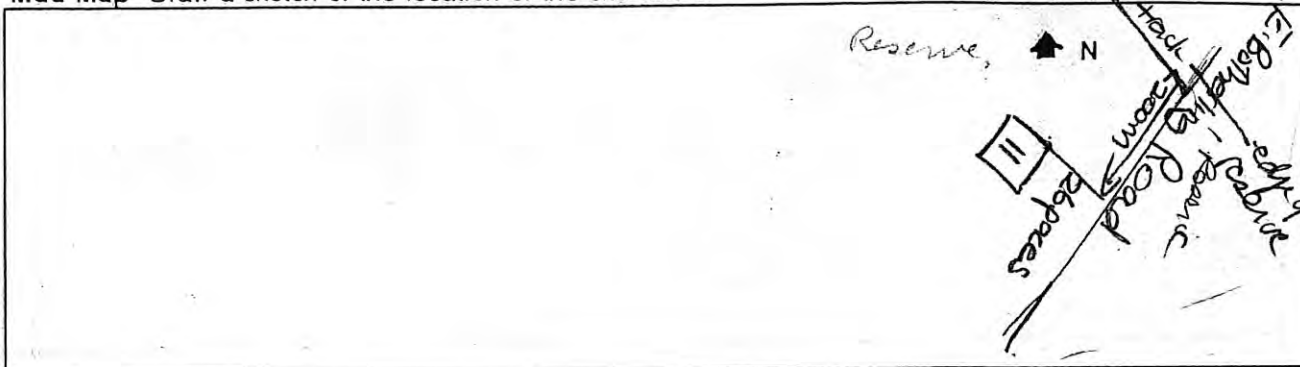
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA Oak Park SITE NUMBER Oak P 11
 DATE TRIP 19.9.99 RECORDERS Deirdre Rosemary Ann Allen
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST Ann

1. LOCATION of the QUADRAT

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

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

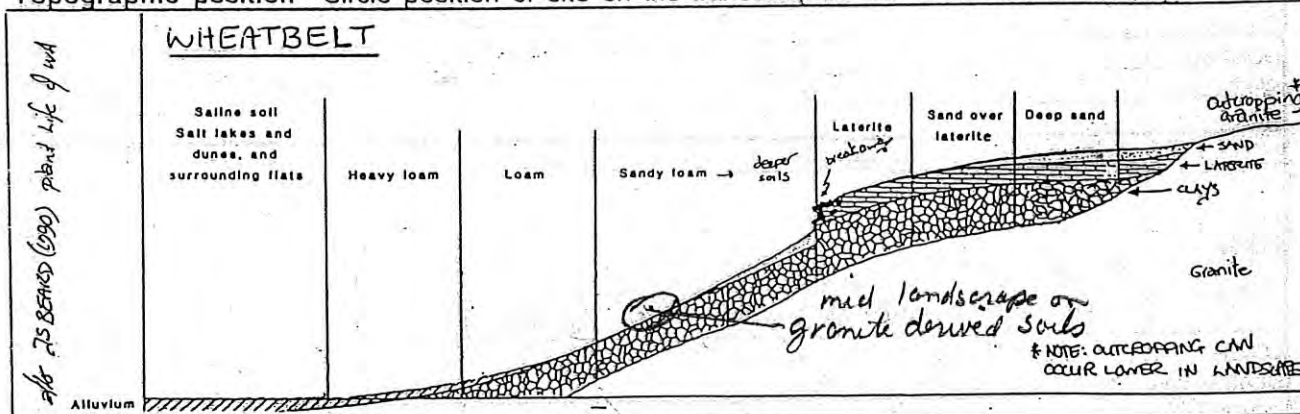


Road Location East Botherling Rd

Geographic Location Latitude: 31°08'01.8" S Longitude: 116°53'32.8" E Altitude: 246 ± 68
 Reference Map Grid: 31°08'01.1" 116°53'19.7"

Photograph Photographer's Name: Brian Moxley Photo No: 17, 18

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



2. SITE DATA Circle the correct response.

Slope: flat <u>gentle</u> steep	Aspect: N NE E SE S SW <u>W</u> NW
Surface Soil: sand, loamy sand, <u>sandy loam</u> , loam, clay, laterite	Colour <u>brown</u>
Exposed rock: type _____	% surface _____
Sub-surface Soil: sand, loamy sand, sandy loam, loam, clay, laterite	Colour _____
Rock: type <u>granite</u>	depth to rock _____
Drainage: <u>well</u> mod, poor depth water _____ cm	Wet: all year winter/spring
Litter: _____ 10 % cover	Bare Ground _____ 20 % cover
Depth _____ cm	

Single leaves to dead branches 1m.

BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class	2-10%	11-30%	31 - 70%	over 71%
-------------	-------	--------	----------	----------

		TREES				MALLEES			
		over 30m	10 - 30m	under 10m	over 8m	under 8m			
LIFE FORM				 			30m	10m	
	COVER CLASS (%)			2-10					
	DOMINANT SPECIES*			<i>A. acuminata</i>	1				
SHRUBS									
		over 2m	2m - 1m		under 1m				
LIFE FORM		  	  	   	2m	1m			
	COVER CLASS (%)	2		2					
	DOMINANT SPECIES*	<i>Santalum spicatum</i>	2	<i>Gonvillea paniculata</i>					
GRASSES									
		HERBS		SEDGES		OTHER			
LIFE FORM		 	   	  				1m	
	COVER CLASS (%)	31-70	31-70						
	DOMINANT SPECIES*	<i>Austrostipa</i> <i>Neurochloa</i>	<i>Borya sp.</i> <i>Opuntia</i> var. <i>G. l. l. l.</i>	8					

WEEDS - % COVER

Trees / Mallers	%	COMMENTS
Shrubs	%	
Grasses	2%	
Herbs	2%	
Sedges	%	

4. VEGETATION CONDITION SCALE

1	'PRISTINE'		COMMENTS <i>pretty</i>
2	EXCELLENT	✓	
3	VERY GOOD		
4	GOOD		
5	DEGRADED		

* If more than 3 dominant species write "mixed".

In area = Catpaw = *Amegozanthos humilis*.

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 OCB P 11

Record on Sheet

- Column 1 plant name-
- Column 2 plant number
- Column 3 flowering time- record flower colour
if species flowering
- Column 4 identification check

Date 19.9.99

50 →

25.10.00

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

TREES				SHRUBS (cont.)				HERBS (cont.)			
No	FI	ID		No	FI	ID		No	FI	ID	
1	✓	✓	Acacia acuminata					20	✓	✓	Thelamitra
2	-	✓	Santalum spicatum					21	-	✓	Leptocarpus fimbriatellus
								22	-	✓	Hydrocotyle ciliolata
								23	✓	✓	Podotrocha angustifolia
				46	✓	✓	Austrodanthonia sp. Goss. & Mulling (G. & M. 10/15)	24	-	✓	Centrolepis pilosa
				47	✓	✓	Austrodanthonia acerosa	25	✓	✓	Centrolepis pilosa
								26	-	✓	Phytolagium
								27	✓	✓	Centrolepis pilosa
								28	-	✓	Gonocarpus nodulosus
								29	✓	✓	Arctotheca calendula
								30	✓	✓	Hypochaeris glabra
								31	✓	✓	Mirsinia
								37		✓	Chamaecrista corymbosa
								38	-	✓	Velleia
								39	on	✓	Drosera glanduligera
								40	-	✓	Trachymene ornata
								41	B	✓	Dianella revoluta
								47	✓	✓	Lomandra sp. (infant)
								48	✓	✓	Tricoryne tenella (epi)
								49	✓	✓	Prasophyllum
								NIS		✓	Trachymene
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus
								50	✓	✓	Peridermus
								51	✓	✓	Harperia
								52	✓	✓	Rhodanthe
								53	-	✓	Platysace
											SEDGES
								49	✓	✓	Schoenus

Greg & Neils Wetlan

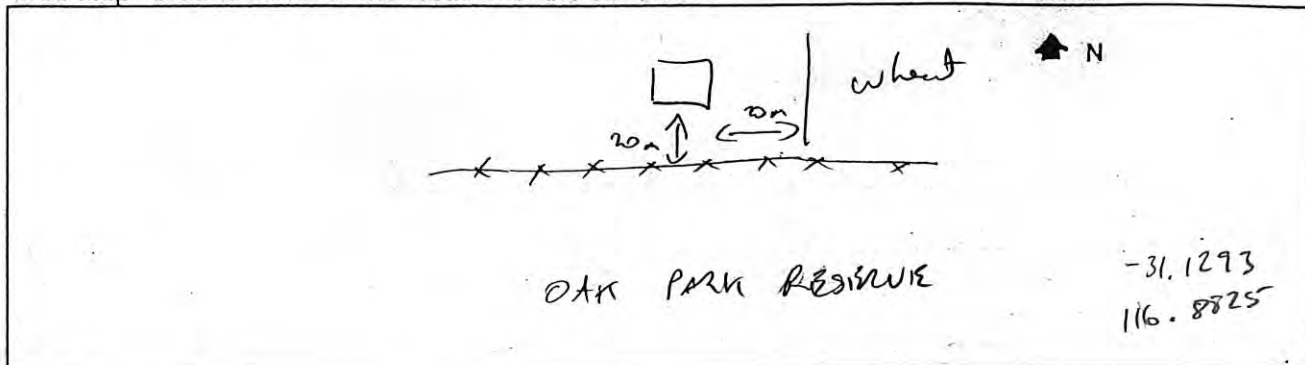
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA KING Property - adjacent to Oak Park Reserve SITE NUMBER SAKP13
 DATE TRIP 18 Sept 1995 RECORDERS Greg, Brian, Neil, Alice
 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.

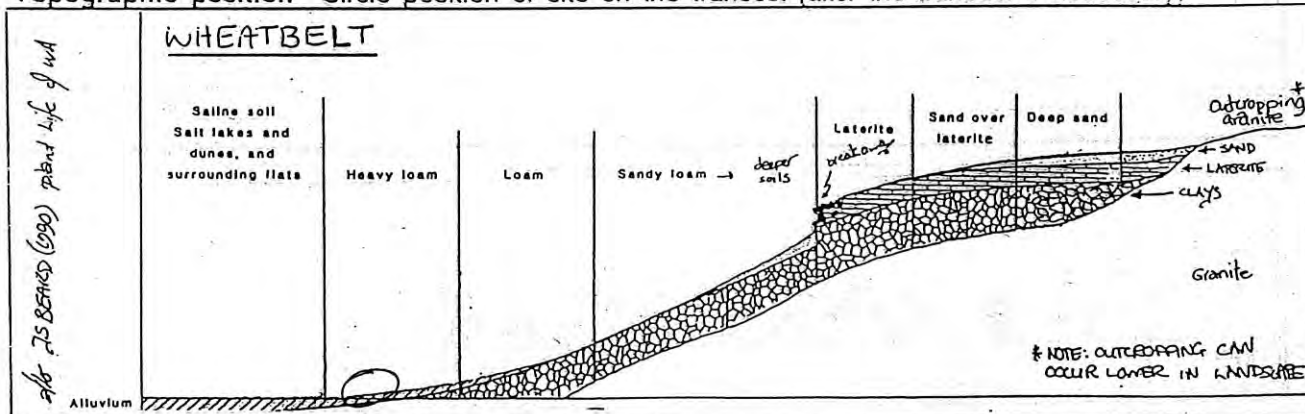


Road Location

Geographic Location Latitude: 31° 07' 45.4" S Longitude: 116° 52' 56.9" E Altitude: _____
 Reference Map used: 31° 07' 45.4" 116° 52' 56.9"

Photograph Photographer's Name: BM 07 Photo No: _____

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



2. SITE DATA Circle the correct response.

Slope: <u>flat</u> gentle steep	Aspect: N NE E SE S SW W NW
Surface Soil: sand, loamy sand, sandy loam, loam, <u>clay</u> , laterite	Colour <u>Brown (wet)</u>
Exposed rock: type _____	% surface _____
Sub-surface Soil: sand, loamy sand, sandy loam, loam, <u>clay</u> , laterite	Colour _____
Rock: type _____	depth to rock _____
Drainage: well, mod, <u>poor</u> depth water _____ cm	Wet: all year <u>winter/spring</u>
Litter: _____ % cover _____	Bare Ground _____ % cover _____

Site to 30cm Under water

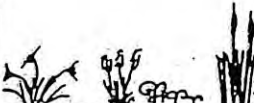
BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

3. VEGETATION STRUCTURE AND COVER

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

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

Cover Class 2-10% 11-30% 31-70% over 71%

		TREES				MALLEES	
		over 30m	10-30m	under 10m	over 8m	under 8m	
LIFE FORM							30m 10m
			12m		12m		
COVER CLASS (%)		No. ↓	10-30	No. ↓	10-30	No. ↓	No. ↓
DOMINANT SPECIES*			Casuarina		York Gum		
		SHRUBS				SHRUBS	
		over 2m	2m-1m	under 1m			
LIFE FORM						2m 1m	
COVER CLASS (%)		No. ↓	2-10	No. ↓		No. ↓	No. ↓
DOMINANT SPECIES*			Hakea				
		GRASSES		HERBS	SEDGES	OTHER	
LIFE FORM						1m	
COVER CLASS (%)		No. ↓	No. ↓	No. ↓	No. ↓	No. ↓	No. ↓
DOMINANT SPECIES*				Eleocharis			

WEEDS - % COVER

Trees/Mallees	%	COMMENTS
Shrubs	%	None obvious
Grasses	%	
Herbs	%	
Sedges	%	

4.

VEGETATION CONDITION SCALE

1	'PRISTINE'	COMMENTS
2	EXCELLENT	Underwater
3	VERY GOOD	unsure
4	GOOD	25/10/99 bit with
5	DEGRADED	Hardeman mornd.

* If more than 3 dominant species write "mixed".

Freshwater wetlands (rainfall) prob more common. but poss a rare plant community
Exceedingly rare in Conn. estate - been cleared or salinated.

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 04K13

Record on Sheet

- Column 1 plant name-
- Column 2 plant number
- Column 3 flowering time- record flower colour
if species flowering
- Column 4 identification check

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

Date 18 SEPT 1975 1-37

37 →

25th Oct 1999 38-7

38-7

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
Casuarina obesa NIS.			✓					*Crassula natans	18		✓
								Salepsosepta congensis = 6	19		✓
								Glossostigma drummondii	20		✓
								Nardoo - Marsilea drummondii	21		✓
								Potamogeton bipinnatus	22	Y	✓
MALLEES				*Vulpia myuros multiple heads.	33	✓	✓	Myriophyllum occidentale	23	Y	✓
Xork gum NIS.			✓	*Parapholis incurva.	32		✓	Iris glabra mucronata	30		✓
Euc. loxophleba.				GRASSES				*Infelium tomentosum	34	=	7
				Amphipogon nervosus.	25	Oct.	✓	Triglochin sp. A Floradust (GK) 47	35		✓
				*Hordeum geniculatum	5	Oct.	✓	Myriophyllum drummondii	36		✓
				*Elymus caput-medusae NB.			✓	Trithuria bibracteata	37		✓
SHRUBS				Grass sp. infertile.	16		?	Calandrinia eremaea	39		✓
Hakea pectinata NIS.			✓	Aerodes aversaceus =	24	Oct.	✓	Triglochin sp. aff. calceolaria	40		✓
Rhynchospora drummondii	4	-	✓	Astragalus elegantissimus	25		✓	SEDGES			
Comefastora integrifolia	29		✓	*Aris arizonicus	26	GI	✓	Eleocharis acicularis	41		✓
				*Lilium bulbiferum x L. pumilum	27		✓	Schoenus capitellatus (sp. Baul)	44		✓
				Australanthus sp. Geomallings	28		✓	Schoenus humilis plumosus	13	Oct.	✓
				HERBS				Schoenus humilis	18		✓
				Crassula decumbens var. decumbens	no number		✓	Inula caerulea congrua	6		✓
				*Cotula australis bipinnata	41	✓	✓	Chorizanthe enodis	2		✓
				Elatine gratioloides	9		✓	Juncus batemanii	31	-	✓
				Pogonochloa stricta. x 2	12	Oct.	✓				
				Blechnum semibarbatum	3	Y	✓	TRACHYMENE ORNATA	30	Fruit	✓
				Gordonia paniculiflora	8	Y	✓				
HERBS (cont)				*Pectocarya ciliolata	18	Oct.	✓	Wilsonia humilis			✓
				*Hypochaeris glabra NIS.			✓	Metalexia uncinata		Cl.	✓
				*Tribulus terrestris	7		✓	TRICANTHUS LONGIPETALA			✓
(no number)				Catula conjugifolia	46	Oct.	✓				
Crassula decumbens var. decumbens			✓	Ptilularia nivalis-hollandiae	11		✓				
*Cotula bipinnata.	4		✓	*Juncus batemanii	17	GI	✓				
Potamogeton ochreatus			✓	Juncus sp. radula	38		✓				

* *Plantago coronopus* Subsp. *communis* Aster

near * *Plantago cornopus*