

11. APPENDICES

APPENDIX 1 Quadrat data sheets

Quadrat JCCA01

BUSHLAND PLANT SURVEY RECORDING SHEET 1 (2005 update) – use pencil only	
BUSHLAND AREA <u>John Curtin College of the Arts - Ellen St. Bushland</u>	SITE NUMBER <u>JCCA 01</u>
DATE TRIP <u>3-9-10</u> BOTANIST <u>B. KEIGHERY</u> RECORDERS <u>Jo Treganning Lyn Roberts</u>	
DATE TRIP <u>21/11/10</u> BOTANIST _____ RECORDERS <u>Vanda Longman</u>	
DATE TRIP _____ BOTANIST _____ RECORDERS _____	

1. LOCATION of the QUADRAT/SAMPLE POINT

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	<u>Ellen Street.</u>		
Geographic Location	Latitude <u>32° 3min 0.55sec S</u>	Longitude <u>115° 45min 21.55sec E</u>	
GPS Used:	<input checked="" type="checkbox"/> yes/no	GPS Datum OR Reference Map Used:	<u>GDA 94</u>
Photograph	Photographer's Name <u>Lyn Roberts Jo Treganning</u>	Photo No.	

Topographic position Circle position of site on the transect (alter the transect if necessary eg. for Jarrah Forest)

SWAN COASTAL PLAIN Upland or Wetland? (circle one)

2. SITE DATA Circle the correct response.


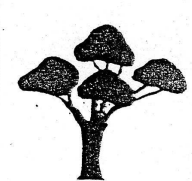



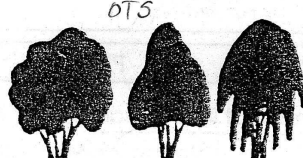





Slope: flat <input checked="" type="checkbox"/> <u>gentle</u> steep	Aspect: N NE E SE S <u>(SW)</u> W NW na	
Surface Soil: sand <input type="checkbox"/> <u>loamy sand</u> <input type="checkbox"/> sandy loam, loam, clay, gravel/laterite	Colour <u>brown</u>	
Exposed Rock: type <u>limestone (Tamala)</u>	% surface	
Sub-surface Soil: sand, loamy sand, sandy loam, loam, clay, gravel/laterite	Colour	
Sub-surface Rock: type <u>limestone</u>	depth to rock <u>0-1 meter</u>	
Drainage: <input checked="" type="checkbox"/> well mod poor	Water depth cm	Wet: all year winter/spring na
Litter: <u>30</u> % cover	Bare Ground <u><10</u> % cover	
Depth <u>5</u> cm		

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (2005 update) – 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 growth form, cover class (see below) and dominant species in their order of dominance, up to a maximum of 3 species. If more than 3 species are obviously dominant record as many as appropriate to describe each layer. For NVIS record max. height of layer & % crown cover to nearest 5%.

Cover Class		2 – 10%	10 – 30%	30 – 70%	over 70%
TREES					
GROWTH FORM	over 30m	10 – 30m	under 10m	over 8m	under 8m
			OLW 		
COVER CLASS (%)			# 2-10% (6%) 3.5#		# 2-10%
HEIGHT & CROWN COVER (NVIS)			* E. erythronyx 6		2% 2m
DOMINANT SPECIES			Euc. gomph.		Eucalyptus petrensis 8
SHRUBS					
GROWTH FORM	over 2m	2m – 1m	under 1m		
					
COVER CLASS (%)	2-10%	# 2-10% 1.7m	# 2-10% 0.7m		
HEIGHT & CROWN COVER (NVIS)	9% 3m	3% cochlearis			
DOMINANT SPECIES	Melaleuca huegelii 10	Acacia saligna Eucalyptus petrofis Dryandra sessilis subsp. cygnorum	2	Acacia lasiocarpa 3 Calothamnus quadrifidus 22	
GRASSES		HERBS		SEDGES	
GROWTH FORM	CG	HB			OTHER (eg. ferns)
					
COVER CLASS (%)	77%	# 30-70%			# m.
HEIGHT & CROWN COVER (NVIS)	70% 15cm	15cm			
DOMINANT SPECIES	mixed	*Freesia alba x leichtinii 11			

4. VEGETATION CONDITION - Keighery (1994) Vegetation Condition Scale

1 'PRISTINE'		COMMENTS (give reasoning for choice) 21/11/10 regenerating Calothamnus quadrifidus, Callitris preissii, Acacia saligna, Hakea prostrata most likely fire has killed a Callitris (biggish specimen) some dead Leptospermum laevigatum specimens (?fire)
2 EXCELLENT		
3 VERY GOOD		
4 GOOD	✓	
5 DEGRADED		

BUSHLAND PLANT SURVEY RECORDING SHEET 3a- use pencil only

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

S. SPECIES PRESENCE
SITE No 52A 01
Date 3.9.10

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

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

TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
<i>Callitris pressa</i>	(FH) 1	12	✓	21/11/10							
				<i>Hakea prostrata</i> seedling in quadrat			✓				
				<i>Eucalyptus gomphocephala</i>			✓				
				<i>Austroriparian flavescens</i>			✓				
MALLEES											
<i>E. erythronervis</i>	6	✓									
<i>E. petrensis</i>	(FH) 8	✓									
SHRUBS											
<i>D. Sessilis</i> subsp. <i>cygnorum</i>	1	✓		<i>*Lagurus ovatus</i>		9	✓				
<i>Acacia Saligna</i>	2	✓		<i>*Quadrat grass Lemniscata rosea</i>		14	✓				
<i>Acacia laevis</i>	3	✓		<i>*Case study - Moraea flaccida</i>		18	✓				
<i>Acacia truncata</i>	4	✓		<i>*Bromus diandrus</i>		16	✓				
<i>Acacia Coeloans</i>	5	✓		<i>*Rupinus Essentini</i>	(FH)	17	✓				
<i>*Leptospermum laevigatum</i>	(FH) 7	✓									
<i>Hel. Menziesii</i>	10	✓									
<i>*Asterum montanum</i> (adjacent)	15	✓									
<i>Adiantum</i>											
<i>Hakea prostrata</i>	(FH) 21	✓		HERBS							
<i>Calothamnos quadrifidus</i>	(FH) 22	✓		<i>*Aussia alba x leichlinii</i>	(FH)	11	✓				
<i>*Nerium oleander</i>	15	✓		<i>*Lysimachia (prev. Anagallis) arvensis</i>	(FH)	19	✓				
				<i>*Medicago polymorpha</i>	(FH)	13	✓				
				<i>*Euphorbia pepius</i>	(FH)	20	✓				

Quadrat JCCA02

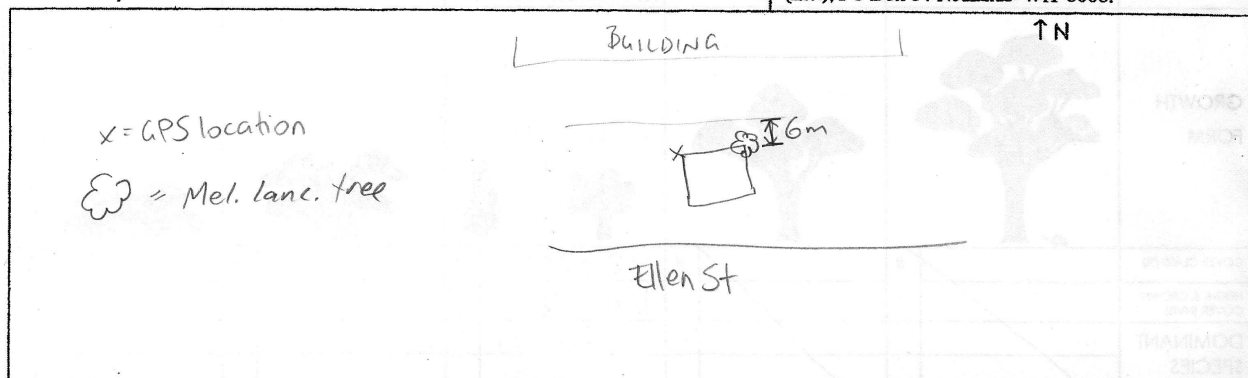
BUSHLAND PLANT SURVEY RECORDING SHEET 1 (2005 update) – use pencil only

BUSHLAND AREA John Curtin College of the Arts SITE NUMBER JCCA02
 DATE TRIP 3/9/10 BOTANIST _____ RECORDERS VANDA MELISSA MARGARET TYRKE
 DATE TRIP 21/11/10 BOTANIST _____ RECORDERS Vanda Longman
 DATE TRIP _____ BOTANIST _____ RECORDERS _____

1. LOCATION of the QUADRAT/SAMPLE POINT

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

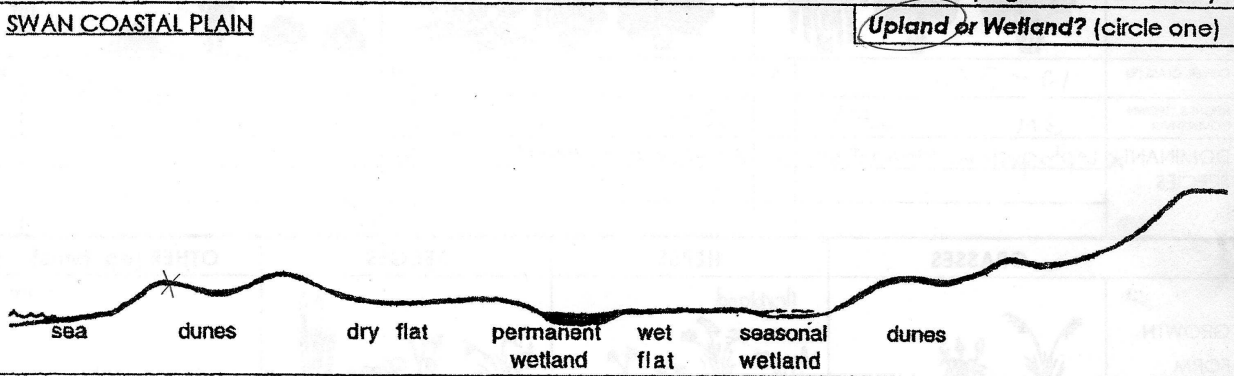


Road Location

Geographic Location Latitude 32° 03' 0.6" S Longitude 115° 45' 22" E
 GPS Used: yes no GPS Datum OR Reference Map Used: S D 7 94

Photograph Photographer's Name Photo No.

Topographic position Circle position of site on the transect (alter the transect if necessary eg. for Jarrah Forest)



2. SITE DATA Circle the correct response.

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

Surface Soil: sand, loamy sand, sandy loam, loam, clay, gravel/laterite Colour grey

Exposed Rock: type limestone % surface 2-10

Sub-surface Soil: sand, loamy sand, sandy loam, loam, clay, gravel/laterite Colour yellow-grey

Sub-surface Rock: type limestone depth to rock 0-10cm

Drainage: well mod poor Water depth cm Wet: all year winter/spring na











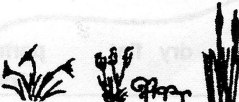

Litter: >70 % cover Bare Ground 2-10 % cover
 Depth ≤ 3 cm

BUSHLAND PLANT SURVEY RECORDING SHEET 2 (2005 update) – use pencil only

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For each layer record – appropriate growth form, cover class (see below) and dominant species in their order of dominance, up to a maximum of 3 species. If more than 3 species are obviously dominant record as many as appropriate to describe each layer. For NVIS record max. height of layer & % crown cover to nearest 5%.

		Cover Class		2 – 10%	10 – 30%	30 – 70%	over 70%		
		TREES			MALLEES				
GROWTH FORM	over 30m	10 – 30m	under 10m	over 8m	under 8m				
			Low Woodland 						
COVER CLASS (%)		#	#	10-30%	#	#	#		
HEIGHT & CROWN COVER (NVIS)				4m 25%					
DOMINANT SPECIES				Mel. lanceolata 1					
		SHRUBS			SHRUBS				
GROWTH FORM	over 2m	2m – 1m	under 1m						
	Tall Shrubland 	Shrubland 							
COVER CLASS (%)	10-30%	#	#	10-30%	#	#	#		
HEIGHT & CROWN COVER (NVIS)	3m 25%			2m 20%					
DOMINANT SPECIES	Leptospermum laevigatum 2			ACACIA cochlearis 3					
		GRASSES		HERBS		SEDGES		OTHER (eg. ferns)	
GROWTH FORM			Herbland 						
			#	#					
COVER CLASS (%)			30-70%						
HEIGHT & CROWN COVER (NVIS)			20cms 60%						
DOMINANT SPECIES			* Romulea rosea 4						
			* FREESIA alba x1. 5						
			* OXALIS pes-caprae 6						

4. VEGETATION CONDITION - Keighery (1994) Vegetation Condition Scale

1 'PRISTINE'	COMMENTS (give reasoning for choice) Leptospermum laevigatum dominant. understorey comprised of weedy herbs. Melaleuca lanceolata dominant in quadrat (native?). Callitris preissii & Templetonia retusa regenerating (21/11/10)
2 EXCELLENT	
3 VERY GOOD	
4 GOOD	
5 DEGRADED	

ADJACENT

BUSHLAND PLANT SURVEY RECORDING SHEET 3a - 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 JCCA02		Record on Sheet		plant name				No FI ID		No FI ID			
Date		Column 1	Column 2	Column 3	Column 4	flowering time	TICK if species flowering	identification	check	SHRUBS (cont.)	HERBS (cont.)		
TREES		No	FI	ID	No	FI	ID	No	FI	ID	No	FI	ID
MALLEES													
GRASSES													
* Buffalo grass <i>Stenotaphrum secundatum</i> 38 ✓													
SHRUBS													
* <i>Palms</i> * <i>Washingtonia filifera</i> (FH) 32 ✓													
<i>Acacia lasiocarpa</i> (FH) 35 Y ✓													
<i>Alyxia</i> & <i>Dodonaea aspera</i> 47 ✓													
? <i>Acacia</i> 44 ✓													
HERBS													
* <i>Fumaria capreo lata</i> (FH) 33 MB ✓													
* <i>Alysum - Lobularia maritima</i> (FH) 34 W ✓													
red stemmed 37 ✓													
* <i>Gladia xus caryophyllaceus</i> 41 ✓													
SEDGES													

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