

URINE

003	Selaginella gracillima	er
007	Cheilanthes austrotenuifolia	lk
	Cheilanthes austrotenuifolia	ma
013	Marsilea drummondii	me
015	Azolla filiculoides	lk
016A	Macrozamia riedlei	b
018	Actinostrobus pyramidalis	me
026	Triglochin centrocarpum	ma
	Triglochin procerum	er
	Triglochin procerum	lk
	Triglochin procerum	me
031	Amphibromus vickeryae	me
	Amphipogon turbinatus	b
	Aristida contorta	ma
	Avena barbata	d
	Avena barbata	er
	Briza maxima	er
	Briza maxima	ma
	Briza minor	er
	Briza minor	ma
	Cynodon dactylon	d
	Cynodon dactylon	er
	Cynodon dactylon	lk
	Danthonia occidentalis	b
	Danthonia occidentalis	ma
	Ehrharta calycina	bp
	Ehrharta calycina	d
	Ehrharta calycina	er
	Ehrharta longiflora	er
	Eragrostis curvula	d
	Eragrostis elongata	er
	Eragrostis elongata	ma
	Lolium multiflorum	er
	Neurachne alopecuroidea	b
	Neurachne alopecuroidea	ma
	Paspalum vaginatum	lk
	Poa drummondiana	b
	Stipa flavescens	b
	Stipa semibarbata	bp
	Stipa tenuifolia	ma
	Vulpia myuros	er
	Vulpia myuros	ma
	Vulpia myuros	me
032	Baumea juncea	er
	Baumea juncea	me
	Caustis dioica	ma

032

Chorizandra enodis	er
Chorizandra enodis	me
Cyathochaeta avenacea	er
Cyperus alterniflorus	lk
Cyperus gymnocaulos	lk
Cyperus tenellus	me
Isolepis fluitans	me
Isolepis marginata	er
Isolepis marginata	ma
Isolepis nodosa	er
Isolepis producta	er
Isolepis producta	me
Isolepis stellata	ma
Lepidosperma longitudinale	er
Lepidosperma longitudinale	me
Lepidosperma tenue	ma
Mesomelaena pseudostygia	b
Mesomelaena tetragona	ma
Schoenus brevisetis	ma
Schoenus clandestinus	b
Schoenus curvifolius	ma
Schoenus tenellus	me
Tetraria octandra	b
Tetraria octandra	ma

039

Alexgeorgea nitens	b
Alexgeorgea nitens	ma
Harperia lateriflora	ma
Hypolaena exsulca	ma
Lepidobolus preissianus	ma
Leptocarpus coangustatus	me
Loxocarya flexuosa	b
Loxocarya flexuosa	ma
Lyginia barbata	b
Lyginia barbata	ma
Restio sinuosus MS	b
Restio sinuosus MS	ma

040

Aphelia cyperoides	er
Centrolepis aristata	er
Centrolepis aristata	ma
Centrolepis drummondiana	b
Centrolepis glabra	me
Centrolepis mutica	me
Centrolepis polygyna	er

040A

Trithuria bibracteata	me
Trithuria submersa	me

047

Cartonema philydroides	er
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050

Philydrella pygmaea	ma
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052

Juncus bufonius	me
Juncus capitatus	me

Juncus holoschoenus lk
Juncus holoschoenus ma

052
Juncus pallidus me

054C
Calectasia cyanea b
Lomandra caespitosa b
Lomandra caespitosa ma
Lomandra hermaphrodita b
Lomandra preissii b
Lomandra preissii ma
Lomandra suaveolens ma

054D
Xanthorrhoea preissii b
Xanthorrhoea preissii ma

054E
Dianella revoluta ma

054F
Arnocrinum preissii b
Caesia occidentalis er
Chamaescilla corymbosa er
Chamaescilla corymbosa ma
Corynotheca micrantha b
Corynotheca micrantha er
Corynotheca micrantha ma
Johnsonia pubescens b
Laxmannia sessiliflora b
Laxmannia squarrosa b
Laxmannia squarrosa ma
Sowerbaea laxiflora b
Sowerbaea laxiflora ma
Thysanotus arenarius b
Thysanotus arenarius bp
Thysanotus manglesianus er
Thysanotus patersonii b
Thysanotus patersonii bp
Thysanotus sparteus ma
Thysanotus thyrsoideus b
Thysanotus thyrsoideus bp
Tricoryne elatior b
Tricoryne elatior ma

054J
Burchardia bairdiae er
Burchardia umbellata b
Wurmbea dioica me

055
Anigozanthos humilis b
Anigozanthos humilis ma
Anigozanthos manglesii b
Anigozanthos manglesii ma
Anigozanthos pulcherrimus ma
Anigozanthos viridis er
Conostylis aculeata b
Conostylis aculeata er
Conostylis aculeata ma
Conostylis setigera b

Haemodorum laxum	b
Haemodorum laxum	ma
Haemodorum paniculatum	b
Haemodorum simplex	er
055	
Haemodorum simplex	ma
Haemodorum sparsiflorum	er
Haemodorum spicatum	b
Haemodorum spicatum	ma
Tribonanthes australis	me
Tribonanthes longipetala	me
056A	
Hypoxis occidentalis	me
060	
Gladiolus caryophyllaceus	b
Orthrosanthus laxus	ma
Patersonia occidentalis	b
Romulea rosea	er
066	
Caladenia deformis	b
Caladenia discoidea	b
Caladenia ferruginea	er
Caladenia ferruginea	ma
Caladenia flava	b
Caladenia longicauda	b
Caladenia reptans	ma
Caladenia varians MS	er
Caladenia varians MS	ma
Diuris laxiflora	me
Diuris longifolia	b
Diuris longifolia	ma
Elythranthera brunonis	b
Leporella fimbriata	b
Lyperanthus nigricans	b
Microtis media	er
Pterostylis recurva	ma
Pterostylis vittata	b
Pterostylis vittata	ma
Thelymitra benthamiana	er
Thelymitra crinita	b
Thelymitra crinita	ma
Thelymitra macrophylla	b
070	
Allocasuarina humilis	b
Allocasuarina lehmanniana	ma
Casuarina obesa	ma
090	
Adenanthos cygnorum	ma
Banksia attenuata	b
Banksia grandis	b
Banksia grandis	ma
Banksia littoralis	er
Banksia menziesii	b
Banksia prionotes	bp
Conospermum stoechadis	ma
Dryandra nivea	b
Dryandra nivea	ma

Dryandra sessilis	er
Dryandra sessilis	ma
Grevillea obtusifolia	ma
Hakea costata	b
Hakea lissocarpha	ma
Hakea prostrata	ma

090

Hakea ruscifolia	b
Hakea sulcata	me
Hakea trifurcata	b
Hakea trifurcata	ma
Hakea varia	er
Persoonia angustiflora	ma
Persoonia comata	b
Persoonia comata	ma
Petrophile brevifolia	b
Petrophile brevifolia	ma
Petrophile linearis	b
Petrophile macrostachya	b
Petrophile macrostachya	ma
Stirlingia latifolia	b
Stirlingia latifolia	ma
Synaphea spinulosa	b
Synaphea spinulosa	er

092

Exocarpos sparteus	er
Exocarpos sparteus	ma

097

Amyema miquelii	er
Amyema miquelii	ma
Nuytsia floribunda	b
Nuytsia floribunda	bp
Nuytsia floribunda	ma

103

Rumex crispus	er
Rumex crispus	lk

106

Ptilotus manglesii	b
Ptilotus polystachyus	b
Ptilotus stirlingii	bp

111

Calandrinia corrigioloides	b
Calandrinia corrigioloides	ma
Calandrinia liniflora	b

131

Cassytha flava	ma
Cassytha racemosa	lk

143

Drosera erythrorhiza	b
Drosera erythrorhiza	ma
Drosera gigantea	er
Drosera gigantea	me
Drosera glanduligera	b
Drosera glanduligera	bp
Drosera glanduligera	ma

Drosera menziesii subsp. penicillaris	b
Drosera menziesii subsp. penicillaris	ma
Drosera pallida	b
Drosera pallida	ma
Drosera rosulata	me
Drosera stolonifera	b
Drosera stolonifera	ma

149

Crassula colorata	b
Crassula natans	me

163

Acacia huegelii	b
Acacia pulchella	b
Acacia pulchella	ma
Acacia saligna	b
Acacia saligna	ma

165

Daviesia divaricata	b
Daviesia physodes	b
Daviesia physodes	ma
Daviesia preissii	b
Gompholobium aristatum	ma
Gompholobium knightianum	b
Gompholobium knightianum	ma
Gompholobium shuttleworthii	b
Gompholobium tomentosum	b
Hovea trisperma	b
Hovea trisperma	ma
Jacksonia furcellata	b
Jacksonia furcellata	ma
Jacksonia sternbergiana	bp
Jacksonia sternbergiana	ma
Kennedia prostrata	b
Kennedia prostrata	bp
Kennedia prostrata	ma
Kennedia stirlingii	me
Mitelia spinosa	b
Nemcia capitata	ma
Nemcia reticulata	b
Vicia sativa	d
Vicia sativa	er
Viminaria juncea	me

175

Boronia ramosa	er
Boronia ramosa	ma

183

Comesperma calymega	b
Comesperma calymega	ma
Comesperma rhadinocarpum	ma
Comesperma virgatum	bp

185

Phyllanthus calycinus	bp
Phyllanthus calycinus	ma
Poranthera microphylla	ma

202

Stackhousia monogyna	ma
Tripterococcus brunonis	ma
215	
Cryptandra spinescens talbot scps	b
226	
Hibbertia acerosa	b
Hibbertia huegelii	b
Hibbertia huegelii	ma
226	
Hibbertia hypericoides	b
Hibbertia hypericoides	bp
Hibbertia hypericoides	ma
Hibbertia racemosa	b
Hibbertia stellaris	er
Hibbertia stellaris	me
243	
Hybanthus calycinus	b
Hybanthus calycinus	ma
263	
Pimelea sulphurea	ma
273	
Astartea fascicularis	er
Astartea fascicularis	me
Baeckea camphorosmae	b
Baeckea robusta	b
Baeckea robusta	ma
Calothamnus quadrifidus	b
Calothamnus sanguineus	b
Calytrix angulata	b
Calytrix flavescens	b
Calytrix fraseri	b
Chamelaucium uncinatum	bp
Eremaea pauciflora	b
Eucalyptus calophylla	ma
Eucalyptus rudis	er
Eucalyptus rudis	lk
Eucalyptus todtiana	b
Hypocalymma angustifolium	er
Hypocalymma angustifolium	ma
Hypocalymma angustifolium	me
Kunzea ericifolia	ma
Leptospermum erubescens	b
Leptospermum spinescens	b
Melaleuca bracteosa	b
Melaleuca lateritia	me
Melaleuca raphiophylla	lk
Melaleuca scabra	b
Melaleuca uncinata	me
Melaleuca viminea	er
Melaleuca viminea	me
Scholtzia involucrata	b
Verticordia densiflora	ma
Verticordia densiflora	me
276	
Gonocarpus nodulosus	ma
Gonocarpus pithyoides	ma

281
 Centella cordifolia er
 Centella cordifolia lk
 Homalosciadium homalocarpum ma
 Hydrocotyle alata ma
 Hydrocotyle pilifera b
 Hydrocotyle pilifera ma
 Schoenolaena juncea er
 Trachymene pilosa b
 Trachymene pilosa ma
 Xanthosia huegelii b

281

288
 Astroloma pallidum ma
 Leucopogon oxycedrus ma
 Leucopogon propinquus b
 Leucopogon sprengelioides b
 Leucopogon sprengelioides ma

293

Anagallis arvensis d
 Anagallis arvensis er
 Anagallis arvensis ma

302

Mitrasacme paradoxa ma
 Mitrasacme paradoxa me

303

Cicendia filiformis me

303A

Villarsia capitata me
 Villarsia parnassifolia me

313

Hemiandra pungens ma

320

Orobanche minor ma

323

Utricularia hookeri me
 Utricularia multifida er
 Utricularia multifida me
 Utricularia tenella er
 Utricularia tenella me

331

Galium divaricatum d
 Galium divaricatum er
 Opercularia vaginata ma

339

Wahlenbergia capensis bp
 Wahlenbergia preissii b
 Wahlenbergia preissii bp

340

Isotoma hypocrateriformis b

Isotoma hypocrateriformis ma
Lobelia tenuior er

341

Anthotium junciforme me
Dampiera linearis er
Dampiera linearis ma
Goodenia micrantha me
Goodenia pulchella me
Lechenaultia expansa ma
Scaevola canescens b
Scaevola phlebopetala ma
Scaevola repens ma
Verreauxia reinwardtii ma

341

343

Levenhookia pusilla ma
Levenhookia stipitata ma
Stylidium brunonianum b
Stylidium brunonianum ma
Stylidium calcaratum ma
Stylidium calcaratum me
Stylidium dichotomum ma
Stylidium divaricatum me
Stylidium hispidum b
Stylidium hispidum ma
Stylidium petiolare er
Stylidium petiolare me
Stylidium piliferum b
Stylidium repens b
Stylidium repens ma
Stylidium roseo-alatum me

345

Arctotheca calendula d
Aster subulatus lk
Aster subulatus me
Brachyscome iberidifolia ma
Cotula coronopifolia lk
Cotula coronopifolia me
Dittrichia graveolens d
Dittrichia graveolens lk
Hyalosperma cotula ma
Hypochaeris glabra b
Hypochaeris glabra d
Hypochaeris glabra er
Hypochaeris glabra ma
Lagenifera huegelii b
Lagenifera huegelii ma
Olearia paucidentata ma
Podolepis gracilis b
Podotheca angustifolia b
Podotheca chrysantha er
Podotheca gnaphalioides b
Quinetia urvillei b
Siloxerus filifolius me
Siloxerus humifusus b
Siloxerus humifusus ma
Sonchus oleraceus d
Sonchus oleraceus er
Ursinia anthemoides b

Waitzia paniculata
Waitzia suaveolens

ma
b

R. A. O. U. T R A C K I N G D A T A B A S E

23/06/96

PARK SIGHTINGS REPORT

Page No. 1

Yurine Swamp N.R. (C6)

ORDER:	REF:	BIRD NAME	NO. SIGHTINGS
0032	0208	Pacific Black Duck	1
0033	0212	Australasian Shoveler } 3	1
0035	0211	Grey Teal	1
0039	0213	Pink-eared Duck } 3	1
0040	0215	Hardhead } 3	1
0041	0061	Australasian Grebe	1
0129	0100	Little Pied Cormorant	1
0139	0188	White-faced Heron	1
0145	0187	Great Egret	1
0206	0055	Black-tailed Native-hen	1
0208	0059	Eurasian Coot	1
0411	0344	Shining Bronze-Cuckoo	1
0453	0329	Rainbow Bee-eater	1
0471	0532	Splendid Fairy-wren } 3	1
0492	0976	Striated Pardalote	1
0517	0463	Western Gerygone	1
0524	0476	Inland Thornbill } 3	1
0531	0486	Yellow-rumped Thornbill } 3	1
0561	0608	Singing Honeyeater	1
0583	0597	Brown Honeyeater	1
0613	0380	Scarlet Robin } 3	1
0670	0369	Restless Flycatcher } 3	1
0671	0415	Magpie-Lark	1
0673	0361	Grey Fantail	1
0676	0364	Willie Wagtail	1
0706	0930	Australian Raven	1
0725	0647	Richard's Pipit	1
0763	0357	Welcome Swallow	1
0766	0360	Fairy Martin	1
0781	0574	Silvereye	1

*** END OF REPORT ***

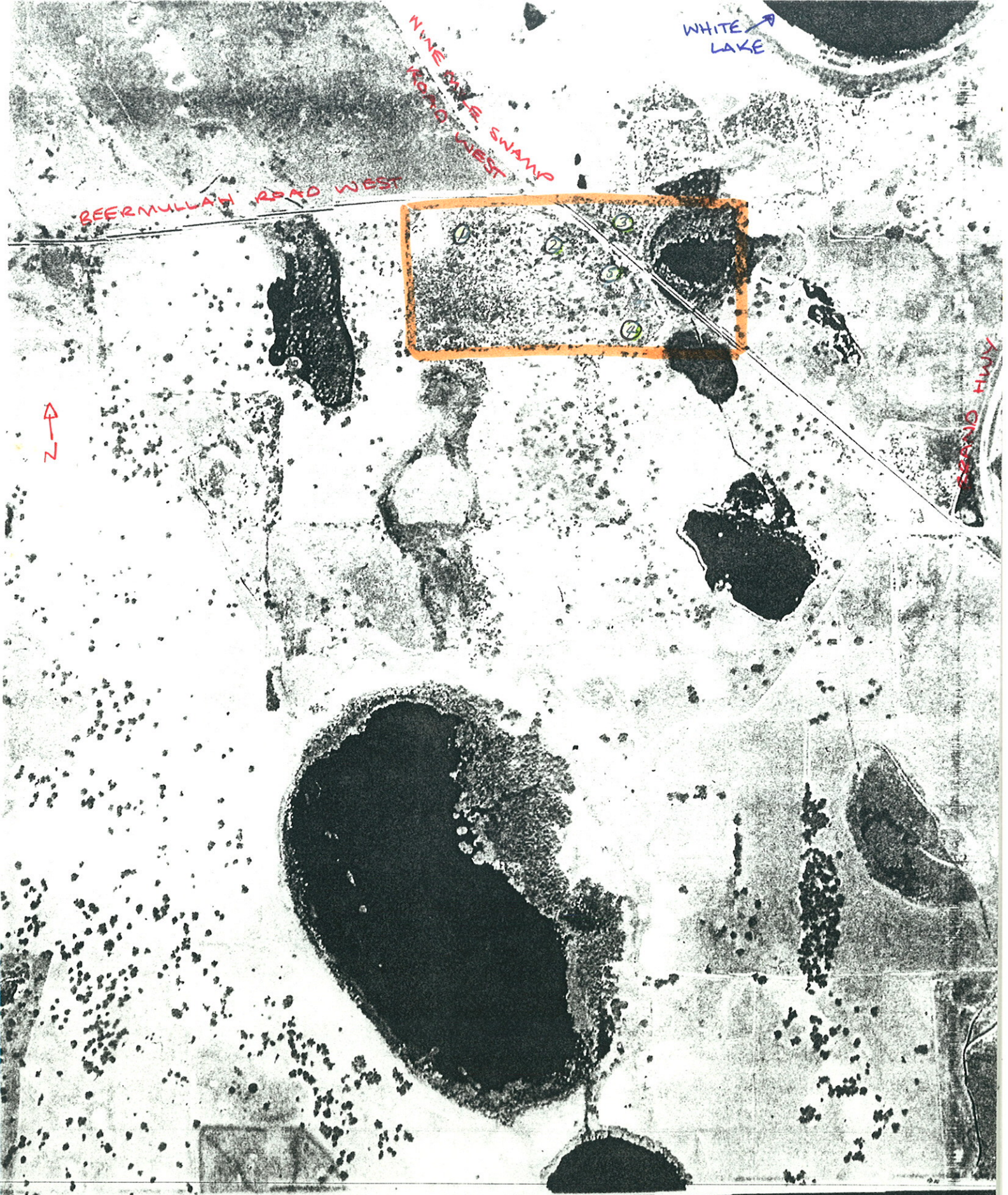
(3)

8.

SUMMARY REPORT

TOTAL BIRDS SIGHTED	:	30
TOTAL NUMBER OF CARDS	:	1

*** END OF SUMMARY ***

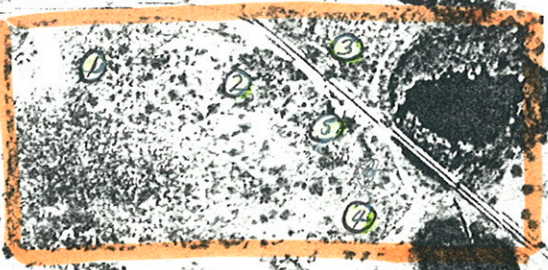


BEERMULLAN ROAD WEST

NINE STAR SWAMP ROAD WEST

WHITE LAKE

SWAMP HWY



2

2035 1 SW

C6 RESERVE C9676 MURINE SWAMP

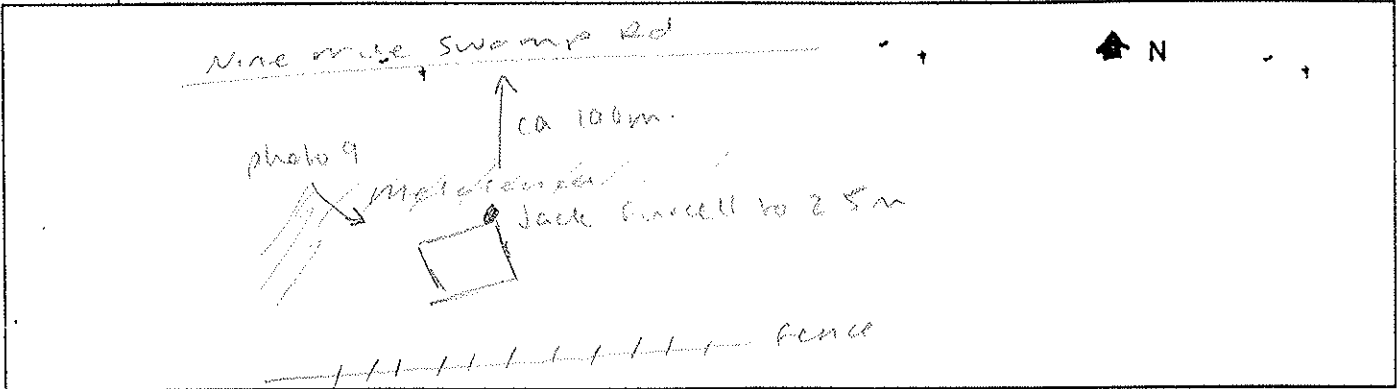
BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA C6 MURINE SWAMP SITE NUMBER MUR 94
 DATE TRIP 13-10-94 RECORDERS BJK, JJA, NCT
 DATE TRIP 22-11-94 RECORDERS BJK
 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 31° 14' 29" S Longitude 115° 47' 72" E Altitude 213 ft

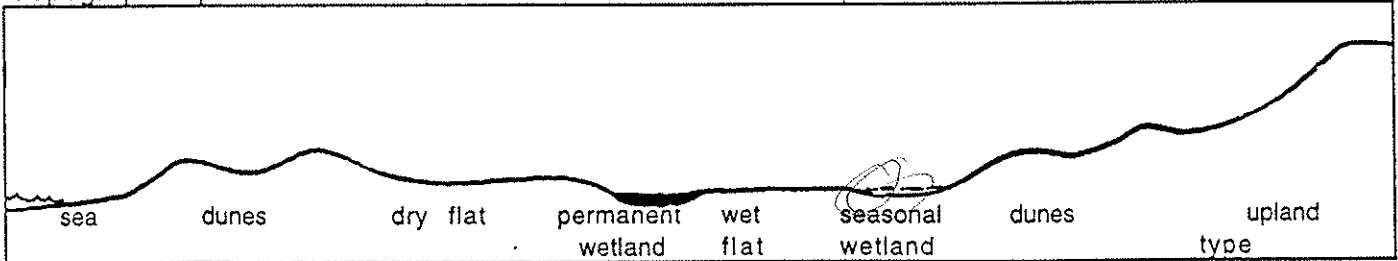
Reference Map

~ 53m from Nat 109 map
EPE 20861
DGP 27

Photograph Photographer's Name

Photo No 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 clay with some sand comp Colour brown
 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	—	% cover	Bare Ground	—	% cover
	Depth	cm			

B/P 2
upland












BUSHLAND PLANT SURVEY RECORDING SHEET 2 - use pencil only

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

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 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			^{0.5-1m} Open dwarf Sesuv C 			
COVER CLASS (%)			2 ← 10%			
DOMINANT SPECIES			marai (sp.) lateribur			
		GRASSES	HERBS	SEDGES	OTHER	
LIFE FORM		Low Grass 	Open Herbs 	less than 0.5m Low Sedges 		
COVER CLASS (%)		30-70	10-30	30-70%		
DOMINANT SPECIES		Briza min Vulpia my.	Cobulia coro Vill cap.	(Cahnia ?) Lepid. long		

4. VEGETATION CONDITION

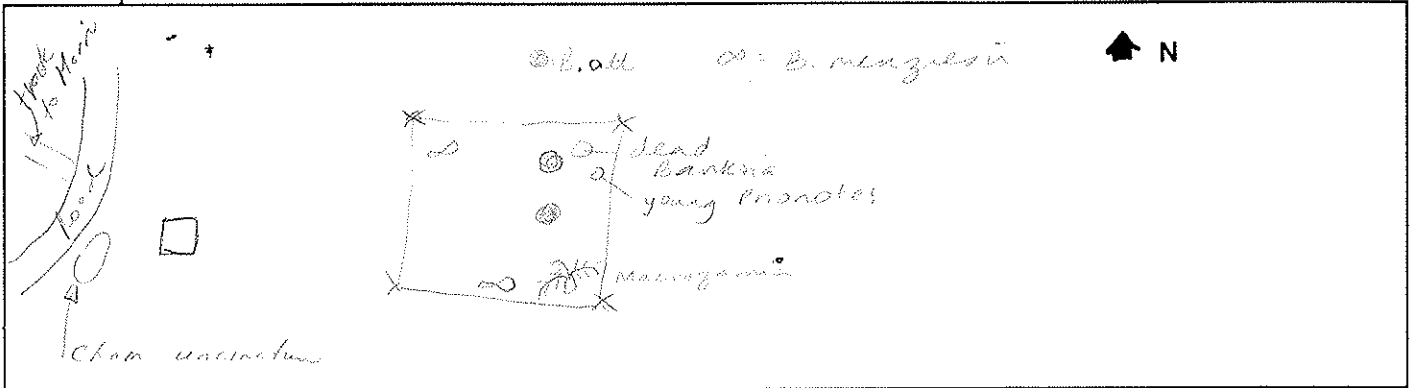
1	'PRISTINE'	COMMENTS 30 → 70% exotic grasses (Briza / Vulpia)
2	EXCELLENT	
3	VERY GOOD	
4	GOOD	
5	DEGRADED	

BUSHLAND PLANT SURVEY RECORDING SHEET 1- use pencil only

BUSHLAND AREA TURINE SWAMP NR SITE NUMBER TUR 93
 DATE TRIP 13/10/94 RECORDERS BJK, NT, TA
 DATE TRIP _____ RECORDERS _____
 DATE TRIP _____ RECORDERS _____
 BOTANIST _____

1. LOCATION of the QUADRAT

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



Road Location NINE MILE SWAMP RD

Geographic Location Latitude 31°14' S S Longitude 115°47'6" E Altitude _____

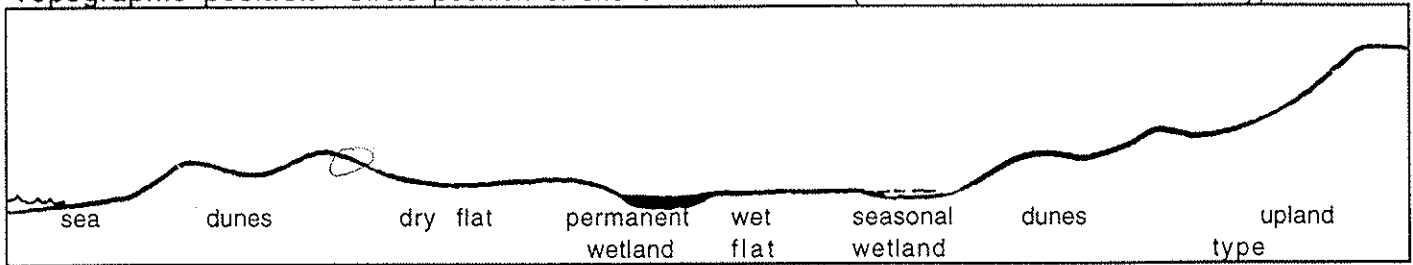
Reference Map _____

~ 33m from Nat Top Map

Photograph _____ Photographer's Name _____

Photo No 7

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



2. SITE DATA Circle the correct response.

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

Surface Soil sand Colour yellow
 Exposed rock _____ % surface

Sub-surface Soil sand Colour brown
 Rock _____ depth to rock

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

Litter 10 - 30 % cover
 Depth < 1 cm

Bare Ground 30 - 70 % cover






B/P2 upland







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%

LIFE FORM	TREES			MALLEES	
	over 30m	15-30m	5-15m under 5m	over 8m	under 8m
		Surrounding areas as 30-70% in places. Low Woodland A 			
COVER CLASS (%)			→ 10-30%		
DOMINANT SPECIES			Banksia atten. Banksia menz.		

LIFE FORM	SHRUBS			SHRUBS	
	over 2m	2m-1.5m	1.5-1m	1-0.5m	under 0.5m
 					
COVER CLASS (%)		→ 2-10			→ 2-10
DOMINANT SPECIES		Macroz mid. Chamel. unc.			Conoskytis acu.

LIFE FORM	GRASSES	HERBS	SEDGES	over 0.5m	under 0.5m
					
COVER CLASS (%)	→ 2-10	10-30			← 2-10
DOMINANT SPECIES	Ehrhartaia caly	Ursinia ant Conosky acu.			Alex. georgia nit

4. VEGETATION CONDITION

1 'PRISTINE'	<p align="center">COMMENTS</p> <p>Lots of bare ground → ? grazed, ? recently burnt No recent fire scars on trees apparent. Surrounding woodland more closed in patches - good regenera-</p>
2 EXCELLENT	
3 VERY GOOD	
4 GOOD	
5 <u>DEGRADED</u>	

of Banksia seedlings to 10cm

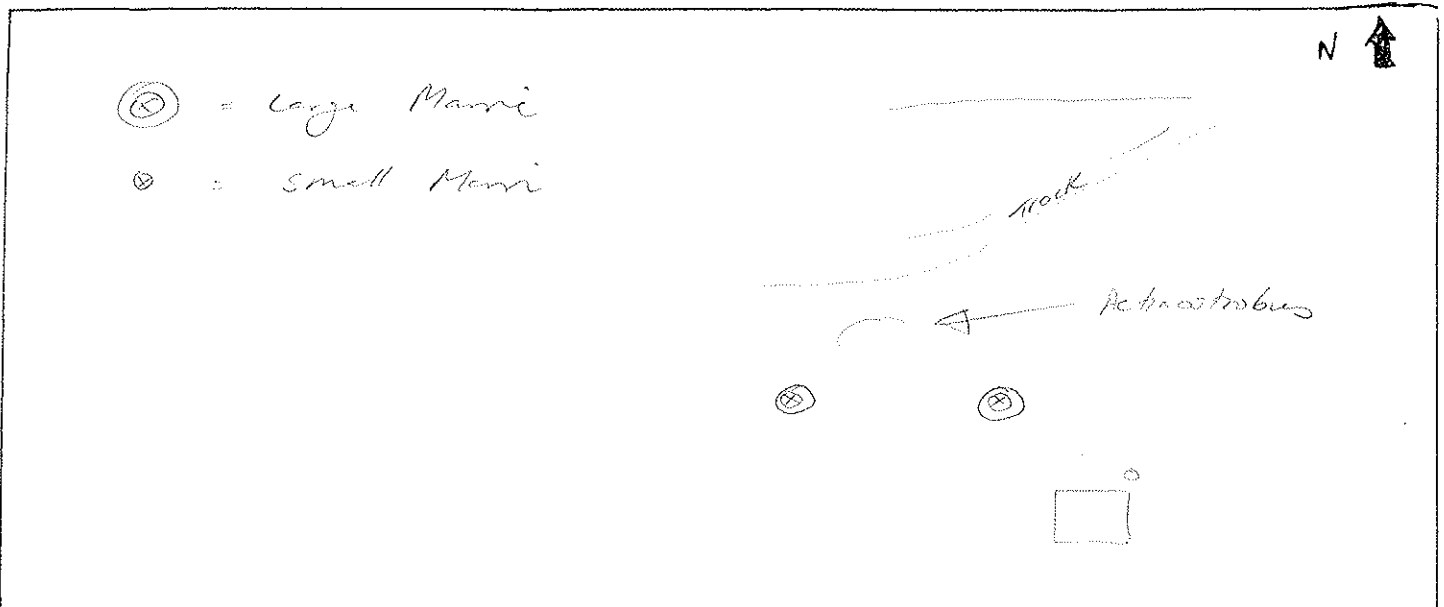
Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: YURINE SWAMP
 QUADRAT No. YURI 02 VEGETATION TYPE _____
 DATE TRIP 6/9/94 BOTANIST BJK, CJK
 VOLUNTEERS 13-10-94 ZJK
 DATE TRIP _____ BOTANIST _____
 VOLUNTEERS _____

Keighery and Keighery, 1990
 Adapted from Griffin and Keighery, 1989
 MOORE RIVER to JURIE SANDPLAIN
 SURVEY. WILDFLOWER SOCIETY of WA

1. LOCATION of the QUADRAT

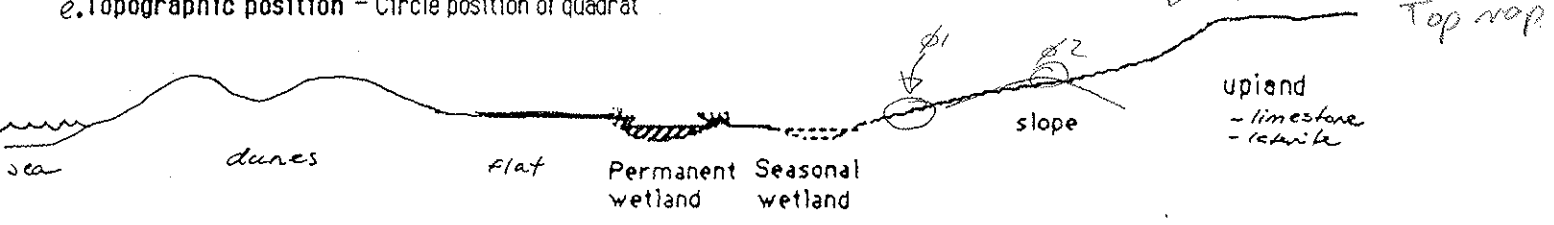
a. Mud Map Draw a sketch of the location of the quadrat



b Road Location	c. Latitude	Longitude
	31° 14.2	115° 47.6'
		Altitude ± 133'

d. Photograph Photographer's name: CJK Photo No 08
NT

e. Topographic position - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope flat gentle steep

Aspect

N	NE	E	SE	S	SW	W	NW
---	----	---	----	---	----	---	----

Surface soil brn yellow sandy clay

Sub-surface soil as above to pale yellow sand

Drainage well mod poor

Wet All year winter/spring

B/P2
upland





Litter (% cover) 30% (single leaf)

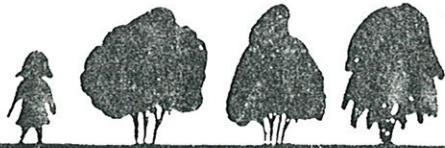




% Bare ground 2-10%

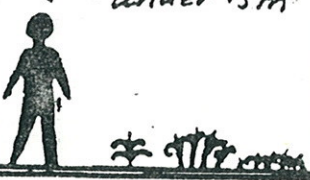



3. VEGETATION STRUCTURE AND COVER. Record appropriate cover class

Cover Class - percentage classes

0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%
----	----------	-------	--------	--------	--------	--------	----------

LIFE FORM	TREES	MALLEES		
	> 15m or 5-15m Open Wood-land 	Under 5m Open Low Woodland S. 	MALLEE SHRUB less than 8m 	MALLEE TREE 8m or more 
COVER CLASS (%)	> 15m 2-10% 5-15m (adj. but area)	2-10%		
Dominant Species	Marri	Bank pine = most common Jack stems = occasional		

LIFE FORM	SHRUBS use the height classes indicated					
	over 2m 	2.0-1.5m 	1.5-1.0m 	1.0m - .5m 	under 5m 	3m 2m 1m
COVER CLASS (%)		2%				
Dominant Species		Hak. tri		Allocas. haw Xanth. prei	Hibb byp	

LIFE FORM	BUNCH GRASSES	HERBS	SEDGES	
	under .5m 	wider .5m (except creepers) 	over .5m 	under .5m Very open Low Sedges 
COVER CLASS (%)		30-50%		2-10%
Dominant Species		Stylid dictot Coco acc. Oper. vag * bira * Uria out		Meso pseud

4. VEGETATION CONDITION

PRISTINE	comments gross disturbance in the area for mining of ironstone ? 20-50 bura/Urs
EXCELLENT	
VERY GOOD	
GOOD	
DEGRADED	

Swan Coastal Plain Survey - SURVEY RECORDING SHEET Please use pencil

BUSHLAND AREA: YURINE SWAMP NR

QUADRAT No. YURI 01 VEGETATION TYPE _____

DATE TRIP 6/9/94 BOTANIST GJK, BJK

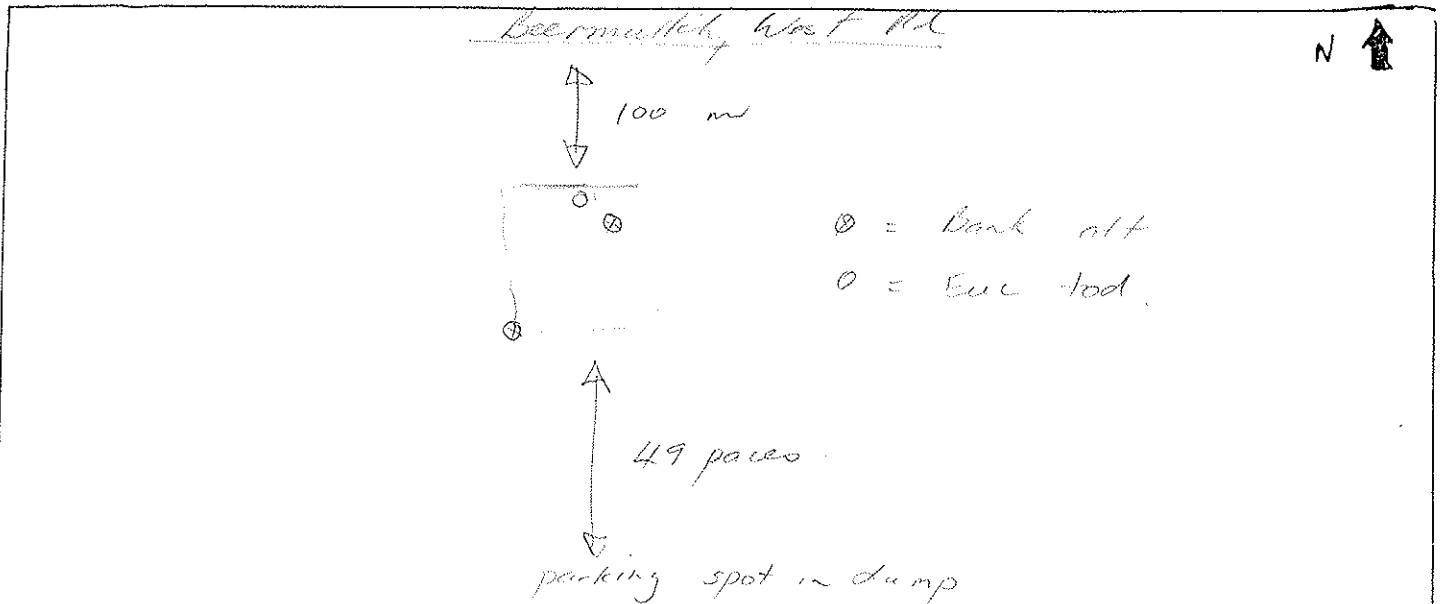
VOLUNTEERS 12/10/94

DATE TRIP 13/10/94 BOTANIST BJK, JJA, NCT

VOLUNTEERS _____

1. LOCATION of the QUADRAT

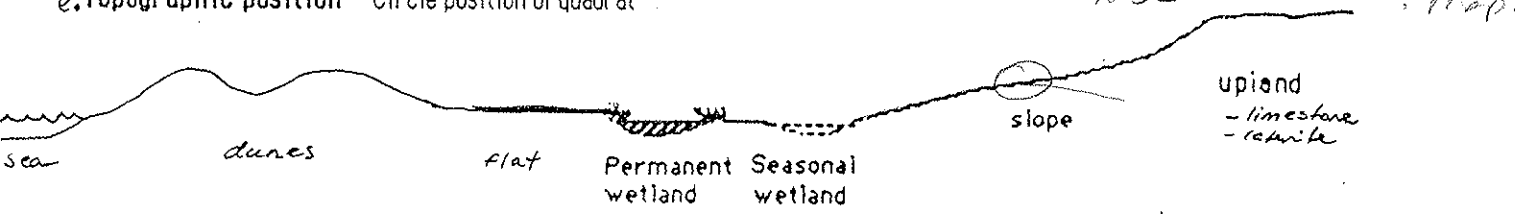
a. Mud Map Draw a sketch of the location of the quadrat



b Road Location	c. Latitude	Longitude
	31° 14.1	115° 47.3
	Altitude 31 ± 121	

d. Photograph Photographer's name GJK Photo No NT 6

e. Topographic position - Circle position of quadrat



2. SITE DATA - Circle the correct response

Slope flat gentle steep

Aspect

N	NE	E	SE	S	SW	W	NW
---	----	---	----	---	----	---	----

Surface soil orange sand

Sub-surface soil bright orange sand

Drainage well mod poor

Wet All year winter/spring

B/P.2
upland





Litter (% cover) 30% (single layer) % Bare ground 2-10%






Keighery and Keighery, 1990
Adapted from Griffin and Keighery, 1989
MOORE RIVER to JURIE SANDPLAIN
SURVEY. WILDFLOWER SOCIETY of WA

3. VEGETATION STRUCTURE AND COVER. Record appropriate cover class


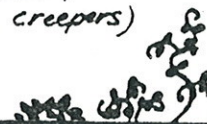

Cover Class - percentage classes

0%	under 2%	2-10%	10-20%	20-30%	30-50%	50-70%	over 70%
----	----------	-------	--------	--------	--------	--------	----------

LIFE FORM	TREES	MALLEES	
	<p>or > 15m 5-15m</p>  <p>Under 5m <i>Low woodland A</i></p> 	<p>MALLEE SHRUB less than 8m</p> 	<p>MALLEE TREE 8m or more</p> 
COVER CLASS (%)	> 15m 5-15m	10-20%	
Dominant Species	Scattered Euc tod. &	Bank manz B. att	

LIFE FORM	SHRUBS	use the height classes indicated				SHRUBS
	<p>over 2m</p> 	<p>2.0-1.5m</p> 	<p>1.5-1.0m <i>open Low scrub B</i></p> 	<p>1.0m - .5m <i>Low Heath C.</i></p> 	<p>under 5m</p> 	
COVER CLASS (%)			2-10%	30-50%		
Dominant Species		not listed	Xan (pici)	Erem. parv Com. arist.		

Height (metres)

LIFE FORM	BUNCH GRASSES	HERBS	SEDGES
	<p>under .5m</p> 	<p>wider .5m (except creepers)</p> 	<p>over .5m</p> 
COVER CLASS (%)			20-30%
Dominant Species		Cono set	Maso pseud

2.0m
1.5m
1.0m
.5m

4. VEGETATION CONDITION

PRISTINE		Comments
EXCELLENT	g	Scattered weeds, adjacent areas *dus / *hyp to 50% Frequent fires from ady hyp Patches Hakea bet. to > 70% Scattered patches = fire.
VERY GOOD		
GOOD		
DEGRADED		

Checked 6/1/94

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 YURI 4
 Date 12/10/94
 22/11/94

Record on Sheet

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

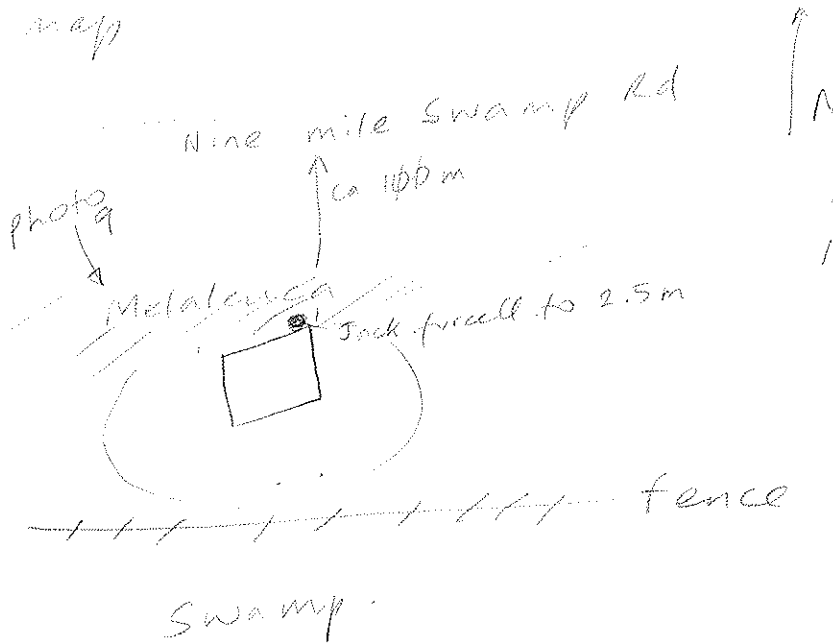
TREES	No	FI	ID	SHRUBS (cont.)	No	FI	ID	HERBS (cont.)	No	FI	ID
0 <i>Melaleuca rhaphis</i> (overhang)				22/11/94 <i>Ulex europaeus</i> <i>Ulex europaeus</i> ✓ I think name				0 <i>Stylidium lineare</i>			
0 <i>Agrostis avenacea</i> (entered in wrong place following Mel shop)				0 <i>Amphibromus</i> = 30-70% 0 <i>Eragrostis elongata</i>	C			0 <i>Ditrichia graveolens</i>			
MALLEES				0 <i>Anthotaxis juncea</i> 0 <i>Aster subulatus</i>				0 <i>Goodenia pulchella</i>			
				GRASSES				0 <i>Utricularia violacea</i>			
				0 <i>Briza minor</i>				0 <i>Caladenia? lami</i> 5TK			
				0 <i>Briza gracilis</i>				0 <i>Aster subulatus</i>			
SHRUBS				0 <i>Ulex europaeus</i>				0 <i>Anthotaxis juncea</i>			
0 <i>Melaleuca lateralis</i>				0 <i>Sulpha murros</i>				0 <i>Rumex</i> sp.			
0 <i>Corymbia micrantha</i>				0 <i>Lolium rigidum</i>				0 <i>Spergularia arvensis</i>			
0 <i>Trochostema fluviatile</i>								0 <i>Tribonanthes? violacea</i>			
0 <i>Asterisk all fascis</i> (specimens for MET to check)	✓			0 <i>Brixton</i>				0 <i>Callitriche? stagnalis</i> (quintin) 6TK			
13/10/94				HERBS				SEDGES			
				0 <i>Cotula corn.</i>				0 <i>Cyperus long.</i>			
				0 <i>Villarsia capitata</i>				0 <i>Centrolepis aristata</i>			
0 <i>Villarsia campastre</i>				0 <i>Villarsia albiflora</i> 150				0 <i>Centrolepis murica</i>			
0 <i>Briza major</i>				0 <i>Crotolaria peruviana</i> 'pink'				0 <i>Scholaria ferruginea</i>			
0 <i>Polypogon tenellus</i>				0 <i>Lolium arcuatum</i>				0 <i>Isotopis marg.</i>			
				0 <i>Cicardia albiformis</i>				0 <i>Cyperus latifolius</i>			
				0 <i>Stylidium rosea-alatum</i>				0 <i>Thymus capitatus</i>			
				0 <i>Tribonanthes australis</i>				0 <i>Baumea juncea</i>			
				0 <i>Crasula patens</i>							
				0 <i>Microtis media</i>							
				0 <i>Thymus glabra</i>							
				0 <i>Monopsis simplex</i>							
				0 <i>Briza viridis</i>							

WRI 04

13/10/94

BTK, JJA, MCI

Mud map



31° 14.29'
115° 47.72'

213 ft
EPE
2φ8 ft
DOP 2-7

Seasonal wetland

Surface soil brown clay some sand component
NO rock

Drainage poor wet winter + spring
Litter — Base Ground none

Shrubs φ.5 - 1 m 2 ~~φ~~ 1φ%

Melaleuca —

Sedges < φ.5 m Gahnia 3φ → 7φ%

Grasses Briza minor 3φ - 7φ%

Herbs cotula coronifolia 1φ → 3φ%
Vulpia
Villarsia capitata

CONDITION

Good

→
30-70% exotic grasses
(briza / vulpia)

AREA INFORMATION

System 6 Area (C or M) or Update Area (Update) C.6

Conservation Area	Yulee Swamp
Nature Reserve	
Reserve No	C.6.75
National Park	
Reserve No	
Local Government	
Reserve No	
Other	
Proposed Conservation Areas	
Local Government	
Reserve No	
Other	

Conservation Area

Nature Reserve	
Reserve No	
National Park	
Reserve No	
Local Government	
Reserve No	
Other	

AREA

Total Area	hectares
Completely Degraded	hectares
comments:	

AREA MAPPED FLORISTIC UNITS

Boundaries: System6 CALM

Units	Site (Condition)	Code	Bound	Area (ha)	Area(ha)

Boundaries determined by use of

aerial photograph
orthophoto
vegetation map
soil map

CONTACT GREG BEESTON for further information.

Flora list for C6 Reserve C9676 Yurine Swamp (sites NSI YUR01-02 extracted from Northern Sandplains database, sites Yuri01-04 extracted from DEP System 6 Update database, BJ Keighery, 9/1/96).

Department of Environmental Protection System 6 Update: Site Based Flora List for C6 Reserve C9676 Yurine Swamp

(sites NSI YUR01-02 extracted from the Dept of Agriculture Northern Sandplains database, sites Yuri01-04 extracted from DEP System 6 Update database, BJ Keighery, 9/1/95)

Amaranthaceae

Ptilotus stirlingii

Anthericaceae

Corynotheca micrantha
Laxmannia sessiliflora
Laxmannia sessiliflora subsp. *australis*
Sowerbaea laxiflora
Thysanotus arbuscula
Thysanotus arenarius
Thysanotus sparteus
Thysanotus thyrsoideus
Tricoryne elatior

Apiaceae

Homalosciadium homalocarpum
Hydrocotyle pilifera var. *pilifera*
Trachymene pilosa
Xanthosia huegelii

Asteraceae

* *Aster subulatus*
Asteridea pulverulenta
Brachyscome iberidifolia
* *Conyza* sp. *scps*
Cotula coronopifolia
* *Dittrichia graveolens*
* *Hypochaeris glabra*
Lagenifera huegelii
Millotia tenuifolia
Olearia picridifolia
Podolepis gracilis
Podotheca angustifolia
Podotheca chrysantha
Podotheca gnaphalioides
Quinetia urvillei
* *Sonchus oleraceus*
* *Ursinia anthemoides*
Waitzia suaveolens

Brassicaceae

* *Cardamine hirsuta*

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Flora list for C6 Reserve C9676 Yurine Swamp (sites NSI YUR01-02 extracted from Northern Sandplains database, sites Yuri01-04 extracted from DEP System 6 Update database, BJ Keighery, 9/1/96).

Callitrichaceae

- * *Callitriche stagnalis*

Campanulaceae

- * *Wahlenbergia capensis*
Wahlenbergia preissii

Caryophyllaceae

- * *Petrohragia velutina*
* *Spergula arvensis*

Casuarinaceae

Allocasuarina fraseriana
Allocasuarina humilis

Centrolepidaceae

Centrolepis aristata
Centrolepis drummondiana
Centrolepis mutica

Colchicaceae

Burchardia bairdiae
Burchardia umbellata

Crassulaceae

- Crassula colorata*
* *Crassula natans*

Cyperaceae

- Baumea juncea*
Cyathochaeta avenacea
* *Cyperus tenellus*
Isolepis marginata
Lepidosperma longitudinale
Mesomelaena pseudostygia
Schoenus clandestinus
Schoenus curvifolius
Schoenus latitans
Schoenus sp. scps
Schoenus tenellus
Tetraria octandra

Dasypogonaceae

Calectasia cyanea
Lomandra caespitosa
Lomandra hermaphrodita

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Flora list for C6 Reserve C9676 Yurine Swamp (sites NSI YUR01-02 extracted from Northern Sandplains database, sites Yuri01-04 extracted from DEP System 6 Update database, BJ Keighery, 9/1/96).

Lomandra preissii
Lomandra suaveolens

Dilleniaceae

Hibbertia acerosa
Hibbertia huegelii
Hibbertia hypericoides
Hibbertia subvaginata

Droseraceae

Drosera erythrorhiza
Drosera menziesii subsp. *penicillaris*
Drosera pallida

Epacridaceae

Conostephium pendulum
Leucopogon propinquus

Gentianaceae

* *Cicendia filiformis*

Goodeniaceae

Anthotium junciforme
Dampiera trigona
Goodenia pulchella

Haemodoraceae

Anigozanthos humilis
Anigozanthos pulcherrimus
Anigozanthos viridis
Conostylis aculeata
Conostylis setigera
Conostylis teretifolia subsp. *teretifolia*
Haemodorum laxum
Haemodorum sparsiflorum
Haemodorum spicatum
Tribonanthes australis
Tribonanthes violacea

Iridaceae

Patersonia occidentalis
* *Romulea rosea*

Juncaceae

* *Juncus capitatus*

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Flora list for C6 Reserve C9676 Yurine Swamp (sites NSI YUR01-02 extracted from Northern Sandplains database, sites Yuri01-04 extracted from DEP System 6 Update database, BJ Keighery, 9/1/96).

Juncaginaceae

Triglochin centrocarpum

Lamiaceae

Hemiandra pungens

Lauraceae

Cassytha flava

Lentibulariaceae

Utricularia violacea

Lobeliaceae

* Monopsis debilis

Loganiaceae

Mitrasacme paradoxa

Loranthaceae

Nuytsia floribunda

Menyanthaceae

Villarsia albiflora
Villarsia capitata

Mimosaceae

Acacia pulchella

Myrtaceae

Astartea aff. fascicularis "Brixton" MET
Astartea aff. fascicularis sthcs
Baeckea robusta
Calothamnus sanguineus
Calytrix angulata
Calytrix flavescens
Calytrix strigosa
Chamelaucium uncinatum
Eremaea pauciflora
Eucalyptus calophylla
Eucalyptus rudis
Eucalyptus todtiana
Melaleuca lateritia
Melaleuca raphiophylla
Melaleuca sp. scps
Melaleuca trichophylla

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Flora list for C6 Reserve C9676 Yurine Swamp (sites NSI YUR01-02 extracted from Northern Sandplains database, sites Yuri01-04 extracted from DEP System 6 Update database, BJ Keighery, 9/1/96).

Scholtzia involucrata
Verticordia densiflora

Orchidaceae

Caladenia ferruginea
Caladenia filamentosa
Caladenia flava
Caladenia longicauda
Leporella fimbriata
Microtis media
Prasophyllum sp. APB (Forrestfield) scps
Thelymitra sp. scps

Papilionaceae

Bossiaea eriocarpa
Daviesia divaricata
Gompholobium aristatum
Isotropis cuneifolia
Isotropis cuneiformis subsp. "glabra" scps map
Jacksonia furcellata
Jacksonia sternbergiana
Kennedia prostrata
* *Lotus angustissimus*
* *Melilotus indicus*
Mirbelia spinosa
* *Trifolium campestre*
* *Trifolium dubium*

Poaceae

Agrostis avenacea
* *Aira caryophyllea*
* *Aira praecox*
Amphipogon turbinatus
* *Briza maxima*
* *Briza minor*
* *Bromus diandrus*
Cynodon dactylon
Danthonia occidentalis
* *Ehrharta calycina*
* *Ehrharta longiflora*
Eragrostis elongata
* *Lolium rigidum*
Neurachne alopecuroidea
* *Pentaschistis airoides*
Polypogon tenellus
Stipa campylachne
Stipa compressa
Stipa tenuifolia
* *Vulpia* sp. scps

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Flora list for C6 Reserve C9676 Yurine Swamp (sites NSI YUR01-02 extracted from Northern Sandplains database, sites Yuri01-04 extracted from DEP System 6 Update database, BJ Keighery, 9/1/96).

Polygonaceae

- * Rumex sp. scsp

Portulacaceae

- Calandrinia granulifera
- Calandrinia liniflora

Primulaceae

- * Anagallis arvensis var. arvensis FPR

Proteaceae

- Banksia attenuata
- Banksia menziesii
- Banksia prionotes
- Dryandra nivea
- Hakea costata
- Hakea ruscifolia
- Hakea trifurcata
- Persoonia rudis
- Petrophile brevifolia
- Petrophile linearis
- Petrophile macrostachya
- Stirlingia latifolia
- Synaphea spinulosa

Restionaceae

- Alexgeorgea nitens
- Hypolaena exsulca
- Lepidobolus preissianus
- Lyginia barbata
- Restio sinosus scps ms

Rhamnaceae

- Cryptandra pungens
- Cryptandra sp. scps

Rubiaceae

- Opercularia vaginata

Scrophulariaceae

- Gratiola peruviana

Stylidiaceae

- Stylidium brunonianum
- Stylidium dichotomum
- Stylidium divaricatum

FOR INTERNAL USE ONLY **from EA Griffin 1994**

7

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Flora list for C6 Reserve C9676 Yurine Swamp (sites NSI YUR01-02 extracted from Northern Sandplains database, sites Yuri01-04 extracted from DEP System 6 Update database, BJ Keighery, 9/1/96).

Stylidium leptophyllum
Stylidium macrocarpum
Stylidium piliferum
Stylidium repens
Stylidium roseo-alatum

Violaceae

Hybanthus calycinus

Xanthorrhoeaceae

Xanthorrhoea preissii

Zamiaceae

Macrozamia riedlei



YURINE SWAMP - Rubbish Dumping



YURINE SWAMP



YURI 01



YURI 02



YURI 03



YURI Ø4



YURI Ø5

NOTE TO FILE

YURINE SWAMP (C6)

- FIELD INSPECTION:
1. Rubbish is being dumped in the north-west part of the reserve on the right hand side of the road. A sign has been erected indicating that rubbish should be dumped in a hole on the site.
 2. Stock appear to have entered the reserve and bared the ground to the north of the swamp. Fences on that side are in a poor condition.
 3. Weeds cover most of the ground on the eastern side of the road.

C6
YURINE
SWAMP

JANUARY
1983



ABOVE:

FLOODED GUM - PAPERBARK WOODLAND SURROUNDING YURINE SWAMP
(SYSTEM 6 RECOMMENDATION C6)



ABOVE: PAPERBARK WOODLAND - YURINE SWAMP (C6)



ABOVE: TURINE SWAMP (C6)



ABOVE: TURINE SWAMP (C6)

WILD 15740A0A
Nº 13007 152.72

000027

- 5022 - 1 267 - 61 100 0180 0320 56 -

000000 003066 210125 601927

5012

WA 2820(C) COASTAL WETLANDS AREA "A" RUN 24 (5001-5113) 1:20000 17.12.89 890121

WILD 15240A6A
Nr 13037 15272

000065

- 5022 - 1 268 - 61 100 0220 0320 56 -

000000 003475 20 01 25 60 1719

5016

WA 2823(C) COASTAL WETLANDS AREA "A" RUN 28 (5001-5115) 1:20000 18.12.89 8901217

WILD 1574 UAGA
Nº 13037 152,72

000018

- 5022 - 1 267 - 62 100 0200 0260 56 -

000000 003185 200125 60 1829

5016

WA 2826(C) COASTAL WETLANDS AREA "A" RUN 26 (5001-5122) 1:20000 18.12.89 890121 1

WILD 15740AGA
Nr 13037 152.72

000033

- 5022 - 1 267 - 61 100 0180 0320 56 -

000000 002858 200125 602089

5228

WA 2826(C) COASTAL WETLANDS AREA "A" RUN 27A (5201-5243) 1:20000 18.12.89 890121