#### **Conservation Significant Vegetation Photographs**

Banksia Woodlands of the Swan Coastal Plain TEC

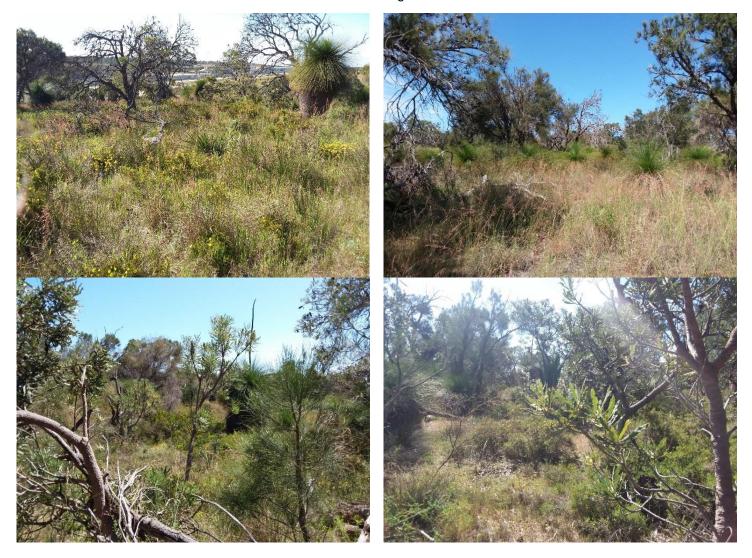




Melaleuca huegelii - Melaleuca systena shrublands on limestone ridges TEC



Banksia dominated woodlands of the Swan Coastal Plain IBRA region PEC



Northern Spearwood shrublands and woodlands PEC

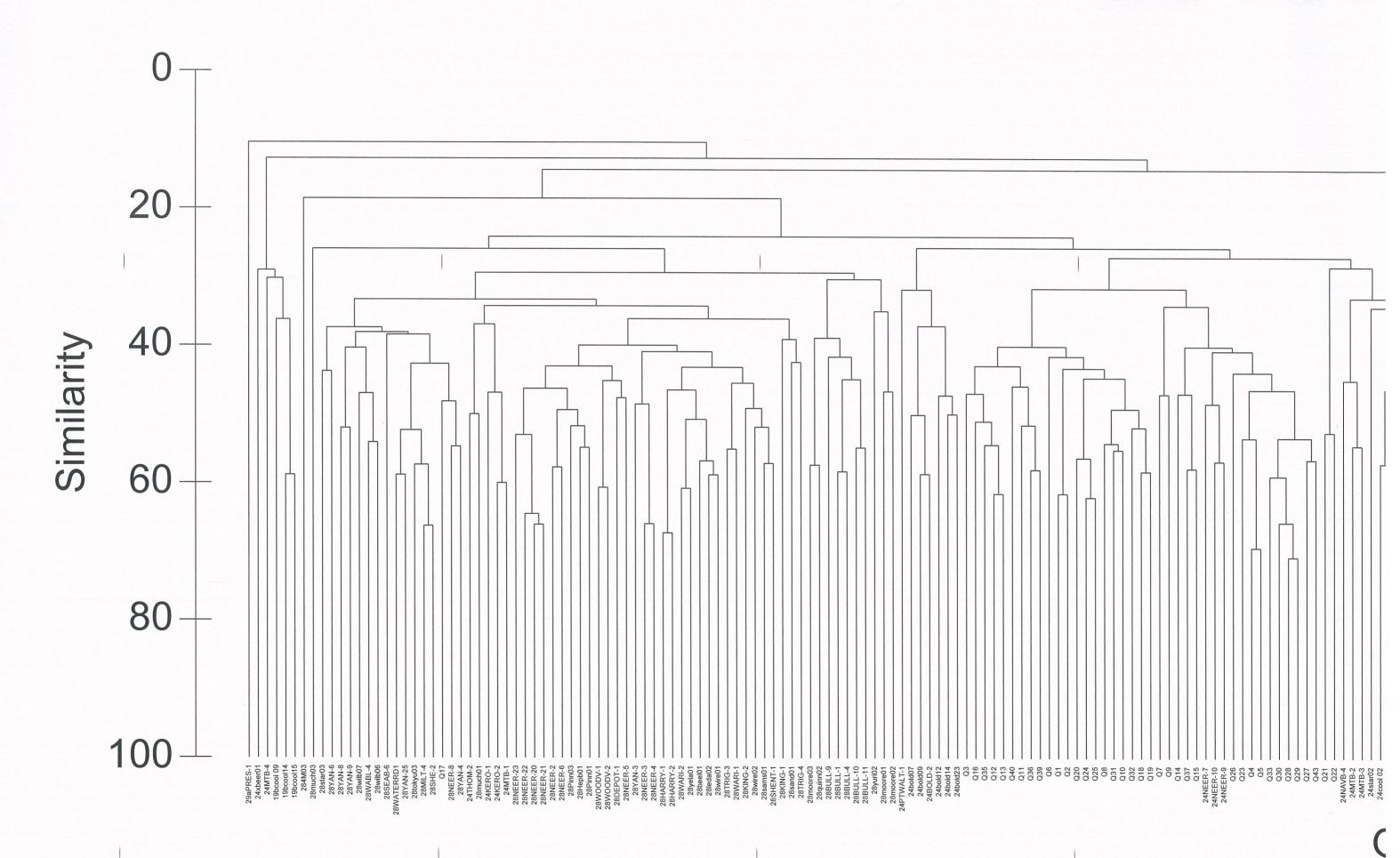


Tuart (Eucalyptus gomphocephala) woodlands of the Swan Coastal Plain



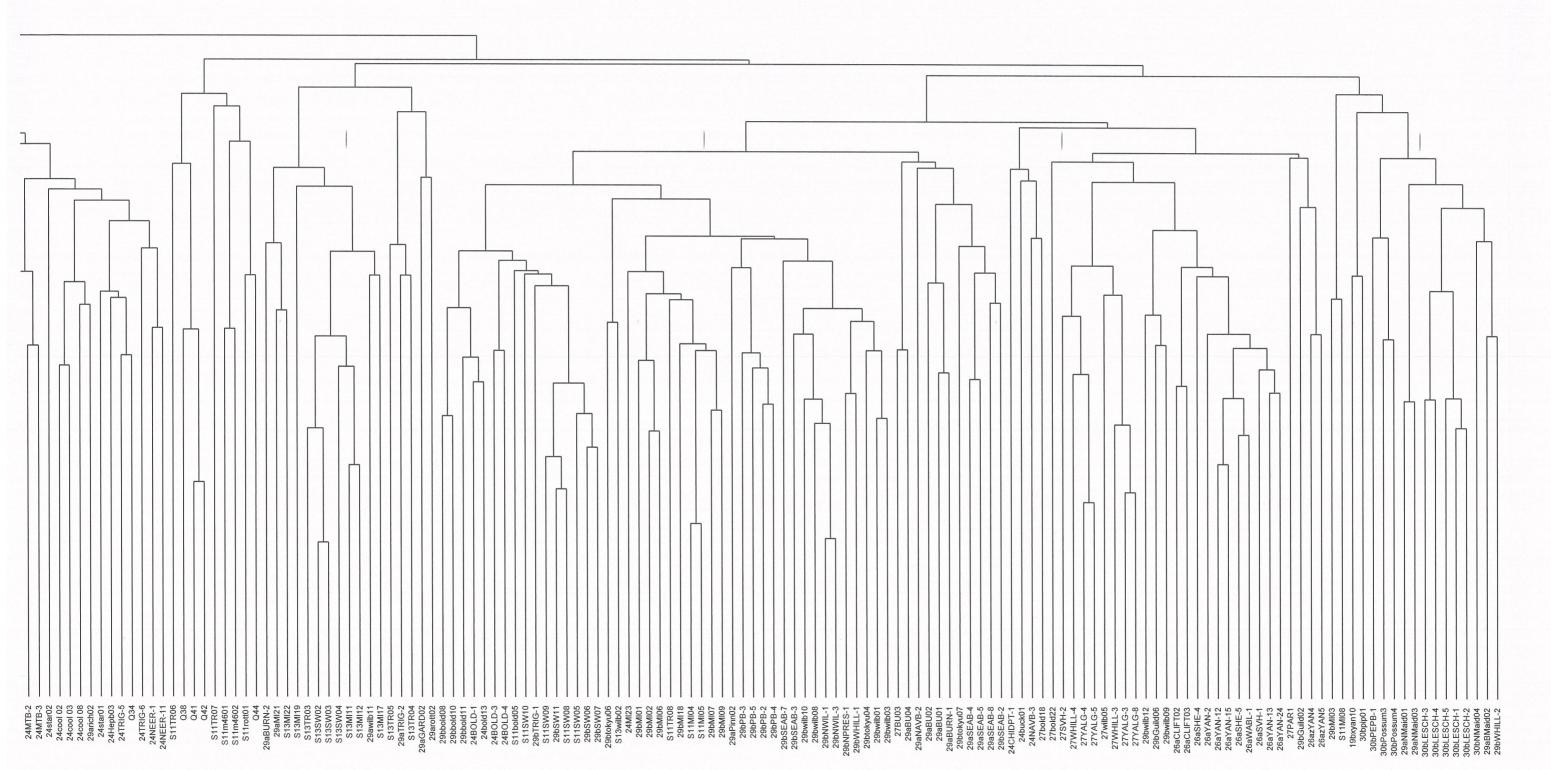


# GHD and S



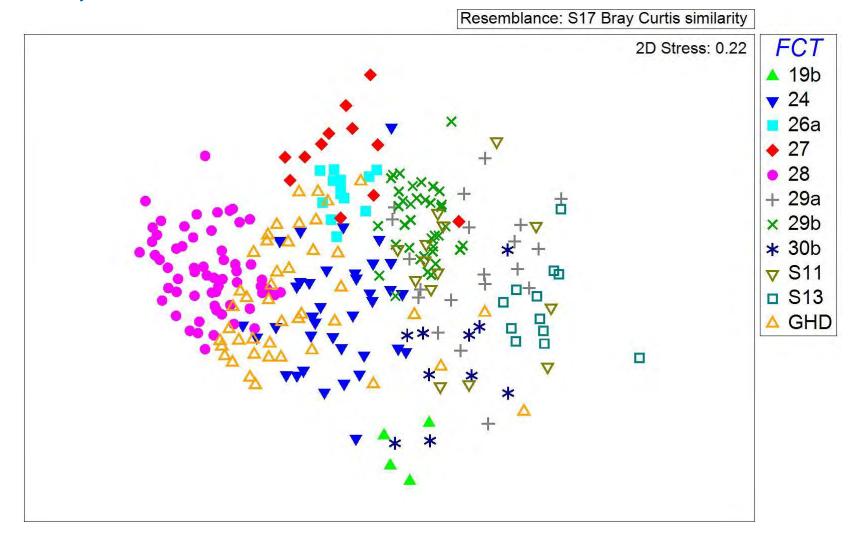
## SWA dataset

Resemblance: S17 Bray Curtis similarity

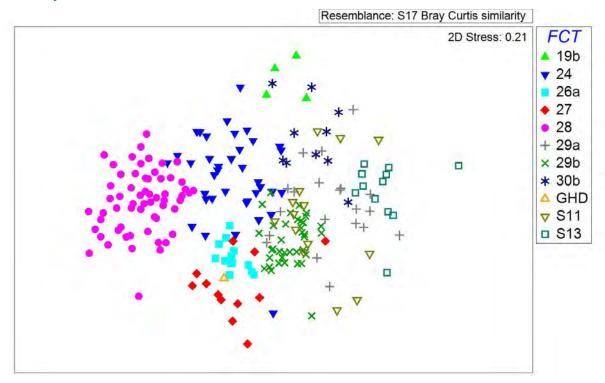


Quadrats

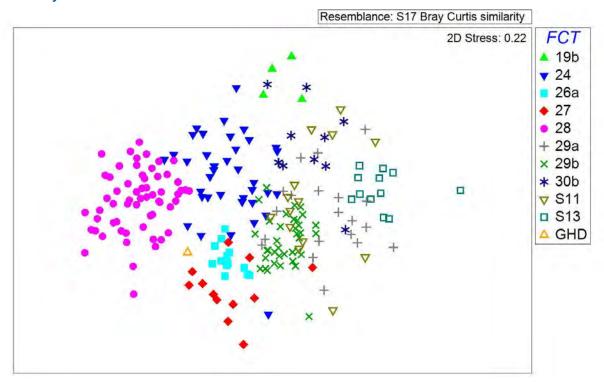
#### **FCT** analysis MDS



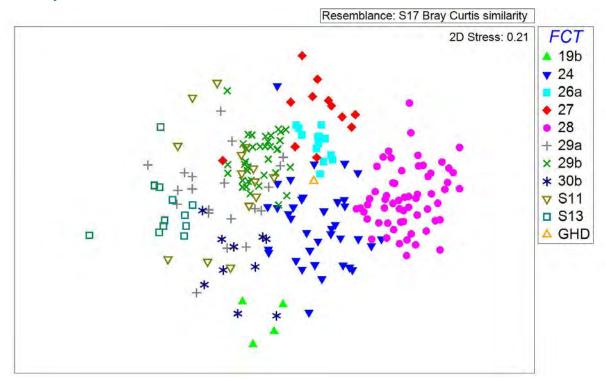
#### SSI analysis Q27



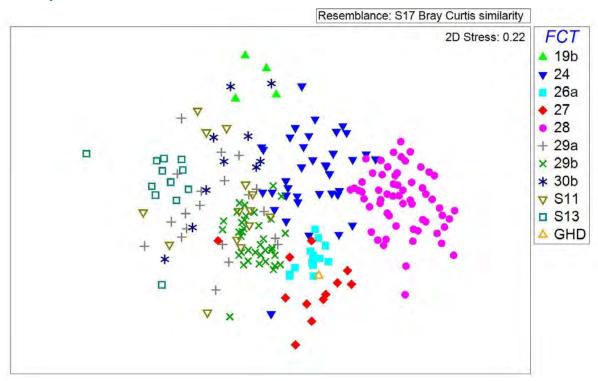
#### SSI analysis Q23



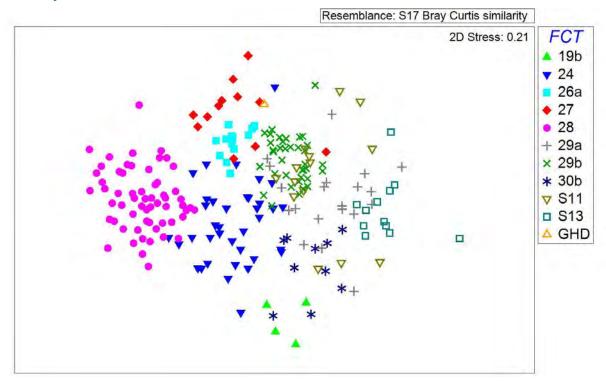
#### SSI analysis Q37



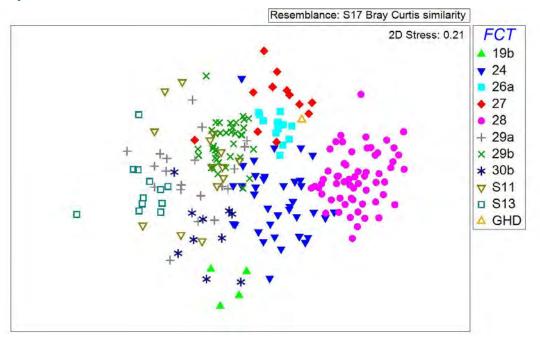
#### SSI analysis Q9



SSI analysis Q14



#### SSI analysis Q26



Flora likelihood of occurrence assessment of conservation significant flora identified in the desktop assessment as potentially occurring within the study area.

Taxa	Common Name	Status		Source			Description and habitat requirements	Likelihood of occurrence within the survey area	Likelihood of occurrence within the extended survey area	
		State	Federal	NM	WAHerb/ TPFL	PMST				
Acacia benthamii		P2		X			Shrub, ca 1 m high. Flowers yellow in August to September. Occurs in sand, typically on limestone breakaways.	Known – species recorded within the survey area.	Known – species recorded within the extended survey area.	
Andersonia gracilis	Slender Andersonia	VU	EN			X	Slender erect or open straggly shrub, 0.1-0.5(-1) m high. Flowers white-pink-purple from September to November. Occurs in white/grey sand, sandy clay, gravelly loam in winter-wet areas, near swamps.	Highly Unlikely – the closest known record is over 50 km north of the survey area. Survey area does not contain optimal habitat for this species.	Highly Unlikely	
Anigozanthos viridis subsp. terraspectans	Dwarf Green kangaroo Paw	VU	VU			X	Rhozomatous, perennial, herb, 0.05- 0.85 m high. Flowers green/yellow-green, August to October. Occurs in sand, loam, clay in winter-wet areas.	Highly Unlikely - the closest known record is over 50 km north of the survey area. Survey area does not contain optimal habitat for this species.	Highly Unlikely	

Таха	Common Name	Status		Source			Description and habitat requirements	Likelihood of occurrence within the survey area	Likelihood of occurrence within the extended survey area	
		State	Federal	NM	WAHerb/ TPFL	PMST				
Baeckea sp. Limestone (N. Gibson & M.N, Lyons 1425)		P1		X	Х		Compact shrub 1.2 (1.6) high. Flowers pink, pale-pink to white (potentially September-December). Grey sand, yellow sand with limestone outcropping. On hills.	Known – species recorded within the survey area.	Known – species recorded within the extended survey area.	
Calectasia cyanea	Blue Tinsel Lily	CR	CR	X			Rhizomatous, clump forming, woody perennial, herb, 0.1-0.6 m high, to 0.3 m wide. Flowers blue/purple, June to October. Occurs in white, grey or yellow sand, gravel.	Highly Unlikely – Only known from a location 10 km south of Albany with records elsewhere considered to be incorrectly identified.	Highly Unlikely	
Conostylis bracteata		P3		X	X		Rhizomatous, tufted or shortly proliferous perennial, grass-like or herb, 0.2-0.45 m high. Flowers yellow, August to September. Occurs in sand, limestone on consolidated sand dunes.	Possible – suitable habitat was found within the survey area.	Possible – suitable habitat present.	

Taxa	Common Name	Status		1		Description and habitat requirements	Likelihood of occurrence within the survey area	Likelihood of occurrence within the extended survey area	
		State	Federal	NM	WAHerb/ TPFL	PMST			
Conostylis pauciflora subsp. euryrhipis		P4		х	Х		Rhizomatous, stoloniferous perennial, grass-like or herb, 0.06-0.18 m high. Flowers yellow August to October. White, grey or yellow sand on consolidated dunes.	Possible – suitable habitat was found within the survey area.	Possible – suitable habitat present.
Diuris micrantha	Dwarf Bee- orchid	VU	VU			X	Tuberous, perennial, herb, 0.3-0.6 m high. Flowers yellow and brown in September to October. Occurs in brown loamy clay in winter-wet swamps, in shallow water.	Highly Unlikely – The closest record on the Swan Coastal Plain is over 50 km south of the survey area. The survey area does not contain optimal habitat.	Highly Unlikely
Diuris purdiei	Purdie's Donkey- orchid	EN	EN			X	Tuberous, perennial, herb, 0.15-0.35 m high. Flowers yellow in September to October. Occurs in grey-black sand, moist. Winter- wet swamps.	Highly Unlikely – The nearest record on the Swan Coastal Plain is over 50 km south of the survey area. The survey area does not contain optimal habitat.	Highly Unlikely
Drakaea elastica	Glossy-leafed Hammer Orchid	CR	EN			X	Tuberous, perennial, herb, 0.12-0.3 m high. Flowers red and green and yellow in October to November. Occurs white or grey sand.	Highly Unlikely - The nearest record on the Swan Coastal Plain is over 25 km north of the survey area. The survey area	Highly Unlikely

Таха	Common Name	Status				Description and habitat requirements	Likelihood of occurrence within the survey area	Likelihood of occurrence within the extended survey area	
		State	Federal	NM	NM WAHerb/ PMST TPFL				
							Low-lying situations adjoining winter-wet swamps.	does not contain optimal habitat.	
Drakaea micrantha	Dwarf hammer- orchid	EN	VU			X	Tuberous, perennial, herb, 0.15-0.3 m high. Flowers red and yellow, September to October. White-grey sand.	Unlikely – the closest known records are over 50 km south of the survey area.	Unlikely
Eleocharis keigheryi	Keighery's Eleocharis	VU	VU			X	Rhizomatous, clumped perennial, grass-like or herb (sedge), to 0.4 m high. Flowers green, August to November. Clay, sandy loam. Emergent in freshwater: creeks, claypans.	Unlikely – the survey area does not contain optimal habitat for this species. The closest known records are over 25 km east of the survey area.	Unlikely
Eucalyptus argutifolia	Wabling Hill Mallee	VU	VU		X	X	(Mallee), 1.5-4 m high, bark smooth. Flowers white, March to April. Shallow soils over limestone. Slopes or gullies of limestone ridges, outcrops.	Unlikely – while suitable habitat was found within the survey area, this species is distinctive and would not likely to have been overlooked within the survey area given the survey intensity.	Possible – suitable habitat is present however none were recorded during targeted searches.
Fabronia hampeana		P2		X	х		Moss, white. Has been recorded growing on	Possible – suitable habitat present within the survey area. The	Possible – suitable habitat present.

Taxa	Common Name	Status		Source	Source		Description and habitat requirements	Likelihood of occurrence within the survey area	Likelihood of occurrence within the extended survey area
		State	Federal	NM	WAHerb/ TPFL	PMST			
							the trunk of Macrozamia.	closest known records are located with 3 to 5 km south and south-west of the survey area. The collection of non-vascular flora species was outside of the scope of the survey.	
Hibbertia spicata subsp. leptotheca		P3		Х	X		Erect or spreading shrub, 0.2-0.5 m high. Flowers yellow, July to October. Occurs on sand near-coastal limestone ridges, outcrops and cliffs.	Known – species recorded within the survey area.	Known – species recorded within the extended survey area.
Jacksonia gracillima		P3		X	X		Perennial tufted herb (1.5 m tall) with narrow leaves 10-40 cm long, with orange and red flowers (October). Grey sand and brown sand/sandy-loam, mid slope with exposed limestone and near damplands.	Unlikely - there is no suitable habitat present within the survey area.	Unlikely - there is suitable habitat within the extended survey area associated with Lake Nowergup however given the degraded nature of the vegetation it is considered unlikely to occur.

Таха	Common Name	Status				Description and habitat requirements	Likelihood of occurrence within the survey area	Likelihood of occurrence within the extended survey area	
		State	Federal	NM	WAHerb/ TPFL	PMST			
Jacksonia sericea	Waldjumi	P4		X	X		Low spreading shrub, to 0.6 m high. Flowers orange, usually December or January to February. Calcareous and sandy soils.	Likely – suitable habitat is present throughout the survey area and extended survey area. GHD (2014) recorded this species within the survey area. During the current survey a number of Jacksonia specimens were collected and were formally identified as Jacksonia was a common component of the understorey throughout the survey area and extended survey area.	Likely – suitable habitat present. Jacksonia was a common component of the understorey throughout the survey area.
Lepidosperma rostratum	Beaked Lepidosperma	EN	EN			x	Rhizomatous, tufted perennial, gras-like or herb (sedge), 0.5 m high. Flowers brown. Peaty sand, clay.	Highly Unlikely – The nearest records on the Swan Coastal Plain are over 50 km from the survey area. The survey area does not contain optimal habitat for this species.	Highly Unlikely

Таха	Common Name	Status				Description and habitat requirements	Likelihood of occurrence within the survey area	Likelihood of occurrence within the extended survey area	
		State	Federal	NM	WAHerb/ TPFL	PMST			
Leucopogon sp. Yanchep (M. Hislop 1986)		P3		х	X		Erect shrub, 0/15-1 m high, to 0.6 m wide. Flowers white/pink, April to June or September. Light greyyellow sand, brown loam, limestone, laterite, granite. Coastal plain, breakaways, valley slopes, low hills.	Known - species recorded within the survey area.	Known – species recorded within the extended survey area.
Leucopogon maritimus		P1			X		Low spreading shrub up to 40 cm tall. Flowers white in April- May and August. Pale yellow to white-grey sand, upper slopes of coastal dunes, limestone.	Possible – suitable habitat present. The closest known record is located approximately 3 km north of the survey area.	Possible – suitable habitat present.
Marianthus paralius		EN	EN			X	Almost prostrate, eventually scandent, woody shrub. Flowers red in September to November. White sand over limestone. Low coastal cliffs.	Unlikely – no suitable habitat present.	Unlikely – no suitable habitat present.
Melaleuca sp. Wanneroo (G.J. Keighery 16705)		EN		X	X		Erect shrub up to 3 m. Flowers yellow flowering around October to December. On fine sand to sandy	Unlikely – The survey area was thoroughly searched and no individuals were identified.	Known – species recorded within the extended survey area.

Таха	Common Name	Status		Source			Description and habitat requirements	Likelihood of occurrence within the survey area	Likelihood of occurrence within the extended survey area	
		State	Federal	NM	WAHerb/ TPFL	PMST				
							loam and brown loamy sand. Limestone ridges and outcropping.			
Pimelea calcicola		P3		X	x		Erect to spreading shrub, 0.2-1 m high. Flowers pink, September to November. Sand. Coastal limestone ridges.	Known – species recorded within the survey area and extended survey area.	Known – species recorded within the extended survey area.	
Sarcozona bicarinata		P3		Х	Х		Shrub, ca 0.1 m high. Flowers white, August. White sand.	Possible – suitable habitat present within the survey area.	Possible – suitable habitat present within the survey area.	
Stylidium maritimum		P3		X	X		Caespitose perennial, herb, 0.3-0.7 m high, leaves tufted, linear to narrowly oblanceolate. Membranous scale leaves present at base of mature leaves. Scape glandular throughout. Inflorescence paniculate. Flowers white/purple, September to November. Sand over limestone. Dune slopes and flats. Coastal heath and	Known – species recorded within the survey area.	Known – species recorded within the extended survey area.	

Taxa	Common Name	Status		Source			Description and habitat requirements	Likelihood of occurrence within the survey area	Likelihood of occurrence within the extended survey area
		State	Federal	NM	WAHerb/ TPFL	PMST			
							shrubland, open Banksia woodland.		
Tetraria sp. Chandala (G.J. Keighery 17055)		P2		X	X		Slender erect sedge. Flowers brown. Mound spring, edge of swamp, black peaty sand.	Highly Unlikely – The survey area does not contain optimal habitat for this species.	Highly Unlikely -



## Threatened and Priority Flora Report Form

Version 1.3 August 2017

Please complete as much of the form as possible, with emphasis on those sections bordered in black. For information on how to complete the form please refer to the Threatened & Priority Flora Report Form (TPRF) manual on the DBCA website at <a href="http://dpaw.wa.gov.au/">http://dpaw.wa.gov.au/</a> under Standard Report Forms

TAXON: Melaleuca sp. Wanneroo TPFL Pop. No:									
OBSERVATION DATE:	5/11/2018	CONSE	RVATION STATE	JS: En	New populat	ion 🛚			
OBSERVER/S: Angela	a Benkovic and Er	in Lynch		PHON	E: 62228361				
ROLE: Botanist		ORGANIS	SATION: GHD						
DESCRIPTION OF LOCATIO	N (Provide at least neare	st town/named locality, and	the distance and direction	on to that place):					
Neerabup National Park be	tween Hester Ave	to Romeo Rd							
				Res	erve No: R275	75			
DBCA DISTRICT: Swan Co	astal	LGA: City of W	/anneroo	Land manag	er present:				
		coords provided, <b>Zone</b> is a		THOD USED: PS ⊠ Differen	tial GPS   M	lan □			
GDA94 / MGA94 🕅	/ Northing: See			satellites:	Map used:				
	g / Easting:			ndary polygon :ured:	Map scale:				
Unknown 🗌	ZONE:								
LAND TENURE:						10 No.			
Nature reserve	Timber reserve	Private property	<i>,</i> 🗆	Rail reserve	Shire road	reserve $\square$			
National park 🛚	State forest	Pastoral lease	MRWA	road reserve	Other Crown	reserve			
Conservation park Water reserve UCL SLK/Pole to Specify other:									
AREA ASSESSMENT: Edge survey ☐ Partial survey ☐ Full survey ☑ Area observed (m²): 1046 ha									
EFFORT: Time spent surveying (minutes): 28 days No. of minutes spent / 100 m <sup>2</sup> :									
POP'N COUNT ACCURACY: Actual ⊠ Extrapolation □ Estimate ⊠ Count method:									
		_		field manual for list)					
WHAT COUNTED:	Plants 🛛	Clumps	Clonal stems						
TOTAL POP'N STRUCTURE:	Mature:	Juveniles:	Seedlings:	Totals:					
Alive	3				Area of pop (m²)	: 490			
Dead					Note: Pls record cour (not percentages) for				
QUADRATS PRESENT:	No	Size	Data attached	☐ Total area	of quadrats (m²):				
Summary Quad. Totals: Alive									
REPRODUCTIVE STATE:	Clonal	Vegetative	Flowerbud 🛛	Flo	ower 🛛				
Immat	ure fruit	Fruit 🗌	Dehisced fruit	Percentag	ge in flower: 100%				
CONDITION OF PLANTS:	Healthy 🛛	Moderate	Poor 🗌	Senes	cent				
COMMENT:									
THREATS - type, agent and	supporting inform	ation:		Curr	Activities and the second control of the sec	Potential			
Eg clearing, too frequent fire, weed, dis	sease. Refer to field manu	al for list of threats & agen	ts. Specify agent where			Threat Onset			
Rate current and potential threat				(N-	E) (L-E)	(S-L)			
Estimate time to potential impact	. 3–311011 (<12mtns), M=N	rediditi ( <byts), (5)<="" l="Long" td=""><td>/I&gt;T)</td><td></td><td></td><td></td></byts),>	/I>T)						
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### **Threatened and Priority** Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION	ON:				
LANDFORM: Crest ☐ Hill ☐	ROCK TYPE:  Granite   Dolerite	LOOSE ROCK: (on soil surface; eg gravel, quartz fields)	SOIL TYPE: Sand ⊠ Sandy loam □	SOIL COLOUR:  Red  Brown	DRAINAGE: Well drained ⊠ Seasonally
Ridge ☐ Outcrop ☒ Slope ☐ Flat ☐	Laterite ☐  Ironstone ☐  Limestone ☑  Quartz ☐	0-10% ⊠ 10-30% ⊠ 30-50% □	Loam ☐ Clay loam ☐ Light clay ☐ Peat ☐	Yellow ☐ White ☐ Grey ☒ Black ☐	inundated □ Permanently inundated □ Tidal □
Open depression   Drainage line   Closed depression	Specify other:	50-100%	Specify other:	Specify other:	
Wetland	Specific Landform (Refer to field manual for a	dditional values)			
CONDITION OF SOIL: VEGETATION	Dry ☐  1. Tall closed shrubla	Moist □ and Melaleuca systen	Waterlogged □ a and Banksia sessil	Inundated ☐	
CLASSIFICATION*:  Eg: 1. Banksia woodland (B. attenuata, B. ilicifolia);  2. Open shrubland (Hibbertia sp., Acacia spp.);  3. Isolated clumps of sedges (Mesomelaena tetragona)	<ul><li>2. sparse herbland D</li><li>3.</li><li>4.</li></ul>				
ASSOCIATED SPECIES:					
Other (non-dominant) spp	most representative vegetation	lavora (with up to three domin	ant anasias in each laws). Ctu	ustinal Competitions about 45-11	
Land Survey Field Handbook gu	idelines – refer to field manual fo	or further information and struc	etural formation table.	uctural Formations should foli	ow 2009 Australian Soli and
CONDITION OF HABITAT	Γ: Pristine ☐ E	Excellent 🛛 Very go	od Good G	Degraded	npletely degraded
FIRE HISTORY: La	ast Fire: Season/Month:	Year: 5<10yrs	Fire Intensity: Hig	gh ☐ Medium ☐ Low [	No signs of fire □
FENCING:	Not required	Present Replac	ce / repair	Required Leng	gth req'd:
ROADSIDE MARKERS:	Not required	Present Replace	ce / reposition	Required  Qua	ntity req'd:
OTHER COMMENTS: (date. Also include detail	(Please include recomme ils of additional data avai	ended management ac lable, and how to locate	tions and/or implement e it.)	ted actions - include	,
				ζ	
should be recorded above in the	nd licening requirements see the ne OTHER COMMENTS section	l.	no specimens or plant matice Licensing pages on DBCA's Lal Herb. District	s website. Any actions carried	cence is required. For out under licence/permit
ATTACHED:					
COPY SENT TO: Re	☐ Mudmap ☐ egional Office ☐	Photo GIS data District Office	Field notes [	Other:	
Submitter of Record:	Angela Benkovic	Role: Botanist	Signed: Benk	oute Date: 05/03/	2019



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Version 1.3 August 2017

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TAXON: Baeckea sp. Li	mestone			Т	PFL Pop. No	):		
OBSERVATION DATE:	15/10/18 & 11/12	2/18 CONSE	RVATION STATU			oulation 🛛		
	Benkovic and Er		INVALION OTATO	PHON				
ROLE: Botanist	Definovic and En	ORGANIS	SATION: GHD		022200	01		
DESCRIPTION OF LOCATION					100			
Neerabup National Park and	d railway line. Witl	nin the proposed M	litchell Fwy extens	sion corridor fror	n Hester Ave	to Romeo Rd		
					serve No:	R 27575		
DBCA DISTRICT: Swan Coa		LGA: City of W			ger present:			
		coords provided, <b>Zone</b> is a gMinSec UT		HOD USED:	ntial CDS □	Mon 🖂		
GDA94 / MGA94 🕅					ential GPS			
AGD84 / AMG84	/ Northing: See			satellites:	wap used	d:		
	g / Easting:			ndary polygon ured:	Map scal	e:		
Unknown 🗌	ZONE:							
LAND TENURE:								
	Timber reserve	Private property		Rail reserve	Shire	road reserve		
National park	State forest	Pastoral lease		road reserve	Other (	Crown reserve		
Conservation park	Water reserve	UCL	SLK/Pole	to	Specify other:			
			<b>5</b> 7 .	1 ( 2)	10101			
AREA ASSESSMENT: Edge				observed (m²):	1046 ha			
EFFORT: Time s	pent surveying (mir	nutes): 28 days	No. of minute	es spent / 100 m <sup>2</sup> :				
POP'N COUNT ACCURACY:	Actual ⊠ I	Extrapolation	Estimate	Count method:				
(Refer to field manual for list)								
WHAT COUNTED:	Plants	Clumps	Clonal stems	l <b>-</b>				
TOTAL POP'N STRUCTURE:	Mature:	Juveniles:	Seedlings:	Totals:				
Alive	437				Area of pop	o (m²):		
Dead						rd count as numbers es) for database.		
QUADRATS PRESENT:	No	Size	Data attached	☐ Total are	ea of quadrats	(m²):		
Summary Quad. Totals: Alive				436				
	Cl! □	\/t-ti \\\\						
REPRODUCTIVE STATE:	Clonal □ ure fruit □	Vegetative ☐ Fruit ☐	Flowerbud   Dehisced fruit		Flower ⊠ age in flower: 1	00%		
CONDITION OF PLANTS: 1	Healthy ⊠	Moderate	Poor	Sene	escent			
COMMENT:								
THREATS - type, agent and	supporting inform	ation:			rrent Poten			
Eg clearing, too frequent fire, weed, dis				elevani.	pact Impa N-E) (L-E	Onact		
Rate current and potential threat i  Estimate time to potential impact:				(.	(	(S-L)		
Clearing by MRWA				meo Rd				
within Road reserv		,			L L	M		
•								
				_				
•	N. 6-2-2			11.				
	1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					_		



## **Threatened and Priority** Flora Report Form

Version 1.3 August 2017

HABITAT INFORMATION	ON:				
LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg	Sand 🗵	Red □	Well drained ⊠
Hill 🗆	Dolerite	gravel, quartz fields)	Sandy loam	Brown	Seasonally
Ridge	Laterite	0.400/	Loam	Yellow	inundated
Outcrop 🗵	Ironstone	0-10%	Clay loam	White	Permanently inundated □
Slope	Limestone 🛛	10-30%	Light clay ☐	Grey ⊠	Tidal
Flat	Quartz 🗌	30-50%	Peat □	Black □	ridai 📋
Open depression	Specify other:	50-100%	Specify other:	Specify other:	
Drainage line					
Closed depression	Specific Landfor	n Flement:			
Wetland	(Refer to field manual for additional values)				
CONDITION OF SOIL:	Dry 🖂	Moist	Waterlogged	Inundated	
VEGETATION CLASSIFICATION*:	1. Low heath of mixed species dominated by Melaleuca systena, Calothamnus quadrifidus subsp. quadrifidus, Acacia lasiocarpa var. lasiocarpa				
Eg: 1. Banksia woodland (B. attenuata, B. ilicifolia);	2. mixed dense understorey (dominated by Desmocladus flexuosus, Mesomelaena pseudostygia and				
2. Open shrubland (Hibbertia sp., Acacia spp.);	Lomandra maritima				
3. Isolated clumps of sedges	3.				
(Mesomelaena tetragona)	4.				
ASSOCIATED SPECIES:					
Other (non-dominant) spp					
Please record up to four of the	most representative vegetation	layers (with up to three domina	ant species in each layer). Str	ructural Formations should fol	low 2009 Australian Soil and
and Survey Field Handbook gu	idelines – refer to field manual t	for further information and struc	ctural formation table.		
CONDITION OF HABITAT	: Pristine	Excellent 🛛 Very go	ood 🛛 Good 🗌	Degraded	npletely degraded
FIRE HISTORY: Last Fire: Season/Month: Year: 5>10yrs Fire Intensity: High ☐ Medium ☐ Low ☒ No signs of fire ☐					
FENCING:	Not required ⊠	Present Replac	ce / repair 🔲	Required  Len	gth req'd:
ROADSIDE MARKERS:	Not required ⊠	Present Replac	ce / reposition		antity req'd:
OTHER COMMENTS: (Please include recommended management actions and/or implemented actions - include date. Also include details of additional data available, and how to locate it.)					
DRF PERMIT/ LICENC further information on permit as should be recorded above in the	nd licening requirements see th	ote if only observing plants (i.e e Threatened Flora and Wildlife n.	. no specimens or plant matie e Licensing pages on DBCA's	eral is taken) then no permit/liss website. Any actions carried	cence is required. For out under licence/permit
SPECIMEN: Collecte	ors No:	WA Herb. Region	nal Herb. District	Herb. Other: _	
ATTACHED: Map Mudmap Photo GIS data Field notes Other:					
	egional Office	District Office	Other:		
Submitter of Record:	Angela Benkovic_	Role:Botanist	Signed:	Date: 05/	/03/2019