

Guichenotia asteriskos (P2) Targeted Flora Surveys Cascade North Spring 2023

Report by:

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Introduction

As a commitment to CPS 9524/1 and to provide further evidence to assess the impacts of CPS 10158/1 the Shire of Esperance undertook targeted flora surveys in the north eastern parts of the Shire in Spring 2023.

Background

Guichenotia asteriskos was described in 2003 and was first found in the Esperance Shire by Shire of Esperance staff in 2020. The species has a large distribution range of 110km north-south and 200km east-west. Little work has been done on the species by DBCA, most likely due to the species occurring across their district boundaries. Prior to the work done recently by Shire of Esperance there were 21 Herbarium records and 4 TPFL records, many of these are duplicates from the same location and there was 14 unique recorded locations.

The Esperance populations are at the south eastern part of the species' range and this survey was to clarify its regional extent.

Site Description	Tenure	Population Count	Date	Sheet no. / Specimen no.
Gravel pit 7 km E from Lake King on the Lake King to Norseman Road	Road reserve	1 plant.	29/08/2016	8934843
Located <1 km (exact distance not recorded) W of Newdegate on the NE and SE corner of crossroads of Lake Grace - Newdegate Road and a gravel road	Road reserve	10-12 plants seen.	2/09/2007	8151849
Pingaring - Varley Road North, just W of intersection with Hollands Track	Road reserve		30/09/2004	6996604
Disused gravel pit off Floater Road 22 km N from Highway 1, Ravensthorpe	Road reserve	occasional.	2/09/2004	7113587
S Buniche Reserve	Nature Reserve		15/10/2003	7701713
W of Lake King, S of the Newdegate - Lake King Road	Road reserve	occasional.	20/09/1999	5593808 / TPFL Pop 3
Dunn Rock Nature Reserve, 26.2 km W along Old Newdegate Road from Ravensthorpe - Newdegate Road	Nature Reserve		26/09/1997	6018750

Table 1. Compiled population data of Priority 2 Guichenotia asteriskos from DBCA data

Dragon Rocks Nature Reserve, 31.5 km E from	Nature			
Pingaring - Pederah Road along Pingaring -	reserve			
Varley Road, S side of road			20/09/1997	5912423
Hyden to Norseman Road, 7.6 km W of Flying	Road reserve			
Fox Mine Road			13/09/1997	7897111
SE corner Loc 2621, Biddy Camm Road Reserve	Road reserve			5362792/
		common.	18/09/1996	TPFL Pop 4
2 km W of Newdegate	Road reserve			4413970/
		frequent.	19/10/1995	TPFL Pop 1
1.7 km W of Newdegate	Road reserve		17/09/1995	6114563
1.7 km W of Newdegate	Road reserve		17/09/1995	6230962
1.7 km W of Newdegate, gravel track crossroad	Road reserve			
on both sides of the road			9/09/1994	6018696
1.7 km W of Newdegate, gravel track crossroad	Road reserve			5912350
on both side of the road,			9/09/1994	
1.7 km W of Newdegate - gravel track crossroads	Road reserve		9/09/1994	7972172
Western edge of township of Newdegate	Road reserve		28/09/1993	5912431
Dunn Rock Nature Reserve No. 36445. Internal	Nature			1078534/
firebreak No. 5.	Reserve		7/10/1984	TPFL Pop 2
At intersection of Lake King and Lake Varley	Road reserve		1	2696835
roads, 270 miles from Perth			11/10/1965	
2 miles W of Newdegate	Road reserve		12/10/1963	2696827
2 miles W of Newdegate	Road reserve		12/09/1963	3250253



Figure 1. Flower and leaves of P2, *Guichenotia asteriskos* found within 'CPS 9524 Site A – Cascade Road and Gravel Pits', taken by Katherine Walkerden on 28/09/2021.

Results and Discussion

A targeted survey aiming to identify additional population of *Guichenotia asteriskos* was performed by Shire of Esperance botanists, Julie Waters and Katherine Walkerden on the 26/09/2023. A total of 107 plants were found over 5 new populations. 4 of these populations have now had Herbarium lodgment and TPRF forms (sent 03/10/2023) prepared. A fifth population consisting of a single very small plant could not be collected and has only had a TPRF form prepared.

In addition, several populations of *Grevillea aneura* were also collected while searching for additional populations of *Guichenotia asteriskos*, population counts were not performed on these new populations, but at each site the plant was common.

Populations were present in diverse myrtaceous and proteaceous heath with scattered mallee on gravelly soil. All populations were within chained vegetation or rehabilitated gravel pits.

A high search intensity was required to locate *Guichenotia asteriskos*, 4 of the 5 populations had finished flowering and were actively fruiting which increased the difficulty in locating the plants. This was despite the survey occurring at optimal time, based on when it was flowering in 2020 -2022.

A total of 14 locations were searched for *Guichenotia asteriskos* (Figure 1).

Five of the areas searched contained no new priority flora:

- West Point Road SLK 6.74
- West Point Road SLK 4.89
- West Point Road SLK 2.61

Targeted Flora Survey Report 2023 *Guichenotia asteriskos* (P2)

- Cascade Road SLK 82.41
- Rollond Road at SLK 71.77

At nine of the search locations priority flora was found. Results are in Table 2.

Table 2. New priority flora populations, with location and population counts.

Site	Taxon	Collector number	Constat	Total Plants
UCL, near Rollond Road at SLK 81.04	Guichenotia asteriskos	KSW03423	P2	16
Cascade Road Reserve at SLK 89.53	Grevillea aneura	KSW03523	P4	Locally common
Cascade Road Reserve at SLK 87.3 - 88.42. *Note this population occurred over several search areas.	Grevillea aneura	KSW03623	P4	Locally common
Cascade Road Reserve at SLK 87.90	Guichenotia asteriskos	Single plant was too small to sustainably collect material	P2	1
West Point Road Reserve at SLK 1.14	Grevillea aneura	KSW03723	P4	Locally common
West Point Road Reserve at SLK 1.14	Guichenotia asteriskos	KSW03823	P2	13
West Point Road Reserve at SLK 1.87	Guichenotia asteriskos	KSW03923	P2	4
West Point Road Reserve at SLK 4.28	Grevillea aneura	KSW04023	P4	Locally common
West Point Road Reserve at SLK 4.28	Guichenotia asteriskos	KSW04123	P2	73



Figure 2. Locations of new priority flora populations, new *Guichenotia asteriskos* populations in green, new *Grevillea aneura* populations in blue.

Conclusion

Guichenotia asteriskos has a Priority 2 listing due to it being reasonably rare, but found in three nature reserves. The lack of data on this species is due to DBCA not prioritizing surveys for the species and contributed by its difficultly to locate when not flowering. It is highly likely that Ecoscape overlooked the species during their State Barrier Fence Biological surveys (Ecoscape, 2015), as the Shire of Esperance located a new plant along the new fence alignment which follows chained strategic firebreak for much of its existence. The species could easily be down listed with additional targeted survey work carried out by DBCA in suitable habitat.

TPRF forms Guichenotia asteriskos

Conservation and Attractions Threatened and Priority			
Flora Report Form	Ve	ersion 1.4 Ma	rch 2021
please complete as much of the form as possible, with emphasis on those sections bordered in			
the form please refer to the Threatened & Priority Flora Report Form (TPRF) manual on the DBCA website at <u>www.doamwa.ocv.au/ola</u> communities/threatened-clarits	192022010	SAULOS ISLO \$40	0000000000
TAXON: Guichenotia asteriskos	TPFL	Pop. No:	
OBSERVATION DATE: 26/09/2023 CONSERVATION STATUS: P2	- N	lew populat	tion 🛛
OBSERVER/S: Katherine Walkerden, Julie Waters P	HONE	0416558774	4
ROLE: Environmental Officer, Coordinator ORGANISATION: Shire of Esperance	ce		
EMAIL: Katherine.Walkerden@esperance.wa.gov.au			
DESCRIPTION OF LOCATION (Provide at least nearest town/named locality, and the distance and direction to that place);			
Cascade Road reserve at SLK 87.90.			
Growing in rehabilitated gravel pit.			
	Reserve		
	manager pr	esent: 📓	
DATUM: COORDINATES: (If UTM coords provided, Zone is also required) METHOD USED: DecDegrees DegMinSec UTMs GPS D	: Differential (GPS 🗖 🛛 🔊	Map 🔲
GDA94 / MGA94 K Lat / Northing: 6317049 No. satellites:		Map used:	
AGD84 / AMG84	n	· =	
Unknown		Map scale:	
ZONE: 51			
LAND TENURE: Nature reserve Timber reserve Private property Rail reserve		Chira cood	d reserve 📓
National park State forest Pastoral lease MRWA road reserve			n reserve
Conservation park Water reserve UCL SLK/Pole to	Spe	cify other:	
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Please return completed form to Species And Communities Program DBCA,

Department of I Conservation	iodiversity, and Attractions	Threatened a	2		
accommence or anteriors accordance.		Flora Repo	ort Form	Versi	on 1.4 March 2021
HABITAT INFORMATI	ON:				
LANDFORM: Crest III Hill Ridge II Outcrop II Slope II Flat II Drainage line II	ROCK TYPE: Granite C Dolerite C Laterite C Ironstone C Limestone C Quartz C Specify other:	LOOSE ROCK: (on soil surface; eg gravel, quartz fields) 0-10% 10-30% 30-50% 50-100%	SOIL TYPE: Sand I Sandy Ioam I Loam I Clay Ioam I Light clay I Peat I Specify other:	SOIL COLOUR: Red Brawn Brawn Vellow White Brawn Black Specify other:	DRAINAGE: Well drained Seasonally inundated Permanently inundated Tidal
Closed depression	Specific Landfor	m Element:			
Wetland	(Refer to field manual for	additional values)		_	
CONDITION OF BOIL:	Dry 📓	Moist 🗖	Waterlogged 🗖	inundated 🗖	
VEGETATION CLASSIFICATION*: Egr.1. Barksia woodand (B. afteruata, B. licitolia); 2. Open shrubland (Hibbertia sp., Acadia spp.); 3. Isolated clumps of sedges (Mitetragona)	1. Eucaryptus pieuro 2. 3. 4.	ocarpa and Hakea laur	ina over mixed sfru	orantu.	
A \$ SOCIATED SPECIE S:		Synaphea sp., Isopogi tospermum spinosum,			
	_	Present 🗖 Replac		gh Medium Low Required Long	pietely degraded
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hen no authorisation/licence is	required. For further information	61000787, FT61000788 fon on authorisation and Leening s should be recorded above in th	a requirements see the Threa	ng plants (i.e. no specimens or itened Flora and Wildlife Licens ion.	
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Bloor	o roturo comoloti	d form to Encoios	And Communi	tics Drogram DP	C.A.

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORDS: Please forward to Flora Administrative Officer, Species and Communities Program.
Record entered by:_________ Sheet No.:______ Record Entered in Database □

communities/threatened-clants			e DBCA website at www.dbaw.wa			
	otia asteriskos				Pop. No:	Ŀ.,
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_	Katherine Walkerd				0416558774	
	ntal Officer, Coordi		ANISATION: Shire of I	Esperance		
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POP'N COUNT ACCUR	RACY: Actual	Extrapolation		unt method: manual for list)		
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Summary Quad. Totals: / REPRODUCTIVE STATE: CONDITION OF PLANTS: COMMENT: THREATS - type, agen Eg dearing, too frequent fire, w Rate current and potential	Immature fruit Healthy t and supporting in weed, disease. Refer to field (threat impact N=NII, L=L4	formation:	ents. Specify agent where releva	Current	Potential Po Impaot T (L-E) C	hreat
Summary Quad. Totals: / REPRODUCTIVE STATE: CONDITION OF PLANTS: COMMENT: THREATS - type, agen Eg dearing, too frequent fire, w Rate current and potential Estmate time to potential	Immature fruit Healthy t and supporting in weed, disease. Refer to field (threat impact N=NII, L=L4	formation: I manual for list of threats & ag w, M=Medium, H=High, E=Exc	ents. Specify agent where releva	Current Impaot	Potential Po Impaot T (L-E) C	hreat Inset
Summary Quad. Totals: / REPRODUCTIVE STATE: CONDITION OF PLANTS: COMMENT: THREATS - type, agen Eg dearing, too frequent fire, w Rate current and potential Estimate time to potential	Immature fruit Healthy t and supporting in weed, disease. Refer to field (threat impact N=NII, L=L4	formation: I manual for list of threats & ag w, M=Medium, H=High, E=Exc	ents. Specify agent where releva	Current Impaot	Potential Po Impaot T (L-E) C	hreat Inset
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Summary Quad. Totals: / REPRODUCTIVE STATE: CONDITION OF PLANTS: COMMENT: THREATS - type, agen Eg dearing, too frequent fire, w Fate current and potential Estimate time to potential	Immature fruit Healthy t and supporting in weed, disease. Refer to field (threat impact N=NII, L=L4	formation: I manual for list of threats & ag w, M=Medium, H=High, E=Exc	ents. Specify agent where releva	Current Impaot	Potential Po Impsot T (L-E) C	Inset

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORDS: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:_______ Sheet No.:_____ Record Entered In Database □

Conservation	Biodiversity, and Attractions	Threatened ar	nd Priority		
ACCOMMENT OF		Flora Repo	rt Form	Versi	on 1.4 March 2021
HABITAT INFORMATI	ON:	-			
HABITAT INFORMATI LANDFORM: Crest I Hill Ridge I Outcrop I Slope I Flat I Open depression I Drainage line I Closed depression I	ROCK TYPE: Granite Dolerite Laterite Ironstone Limestone Quartz Specify other:	LOOSE ROCK: (on soil surface; eg gravel, quartz fields) 0-10% 10-30% 30-50% 50-100% D	SOIL TYPE: Sand II Sandy Ioam II Loam II Clay Ioam II Light clay II Peat II Specify other:	SOIL COLOUR: Red Brawn C Yellow White C Grey Black C Specify other:	DRAINAGE: Well drained Sessonally inundated C Permanently inundated C Tidal C
Wetland CONDITION OF SOIL:	(Refer to field manual for Dry		Waterlogged	inundated 🔲	
VEGETATION CLASSIFICATION*: Eg: 1. Barksia woodand (B. afenuata, B. licitola); 2 Open shrubland (Hibbertia sp., Acadia sp.); 3. Isolated clumps of sedges		alyptus sp. over mixed		_	
 isolated clumps of sedges (Mitetragona) 	4.				
	Acacia gonophylla, C Grevilea nudiflora. most representative vegetation	eria sulcata, Lepidospe Cryptandra sp., Greville Layers (with up to three domina for further information and struct	ea anethifolia, Platys nt species in each layer). Str	sace effusa, Comespe	erma spinosum,
CONDITION OF HABITA COMMENT:	T: Pristine 🗖	Excellent 📓 Very goo	od 🗖 🛛 Good 🗖	Degraded 🗖 Com	pletely degraded 🔲
	ast Fire: Season/Month:	Year:	Fire intensity: Hig	n 🗖 Medium 🗖 🛛 Low 🗖	No signs of fire
FENCING:	Not required 📓		e / repair 🗖		th reg'd:
ROAD SIDE MARKER 8:	Not required	Present 🗖 Replace	e / reposition		atty regid:
		ended management acti lata available, and how to		ed actions -	
then no authorisation/licence is	s required. For further informati	81000787, FT61000788- on on authorisation and licening	requirements see the Threa		
website. Any actions carried o	ut under authorisations/licences	should be recorded above in the	e OTHER COMMENTS sect	ian.	
KSW03823	WA He	erb. 🔟 Regional Herb.	District Herb.	Other:	
Man	ement No: Mudmap Photo		-		
	gional Office	_	her:	Other:	
Submitter of Record: Ka		Role: Environmental Offi		Date: 03	40/2022

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORD\$: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:________ Sheet No.:______ Record Entered in Database D

Call Department of Bio	diversity,	Threatened	and Priority	r		
Conservation and	d Attractions		-			
Please complete as muc	h of the form as n		port Form	hordered in black	Version 1.4 M	
the form please refer to the Threat communities/threatened-clarits	tened & Priority Flora Rep	ort Form (TPRF) manual on t	he DBCA website at <u>www.doc</u>	www.cov.au/ciants-an	tanimais/threatened-s	wild complete accessionds
	tia asteriskos				DEL Den Nov	
OBSERVATION DATE		CON	SERVATION STATU		PFL Pop. No: New popul	ation 🖂
	atherine Walkerd		SERVATION STAT	73. <u>F2</u> PHO		_
	al Officer, Coordin		ANISATION: Shire	of Esperance	L 04103307	7
	alkerden@espera					
DESCRIPTION OF LOCA	ATION (Provide at leas	nearest towninamed locality	and the distance and directio	o to that place)".		
West Point Road Rese	7					
Chained firebreak.						
					serve No:	
	rance	LGA: Espera			ger present: 📓	
DATUM:	DecDegrees	fUTM coords provided, Zone DegMinSec		HODUSED: PS Differe	ential GPS 🔲	Map 🗖
GDA94 / MGA94 📓	· ·	300486.3	_	satellites:	Map used:	map 🖬
AGD84 / AMG84	-			ndary polygon		
WGS84	Long / Easting: -	0308187.4		ured: 🔲	Map scale:	
_	ZONE:	51				
LAND TENURE: Nature reserve	Timber reserve	Private prop		Rail reserve	Chira an	d reserve
National park	State forest	- · · · · · · · · · · · ·	· _	road reserve		in reserve
Conservation park	Water reserve		JCL 🔲 SLK/Pole 🔜	10	Specify other:	
AREA ASSESSMENT:			/_	observed (m ²):		
EFFORT: TA POP'N COUNT ACCURA	ime spent surveying ACY: Actual	Extrapolation	No. of minute	s spent / 100 m ² : Count method:	_	
POP N COUNT ACCURA	ACT. Accuai	Extrapolation		field manual for list)		
WHAT COUNTED:	Plants	Clumps 🔲	Clonal stems			
TOTAL POP'N STRUCTUR	E: Mature:	Juveniles:	Seedlings:	Totals:		
Alive	4				Area of pop (m	2):
Dead					Note: Pis record or (not percentages) f	
QUADRATS PRESENT:	No.	Size	Data attached	Total area	a of quadrats (m ²	
Summary Quad. Totals: Al	Ive]	
REPRODUCTIVE STATE:	Cional 🗖	Vegetative 🗖	Flowerbud		lower 🗖	
In	nmature fruit 📓	Fruit 🗖	Dehisced fruit 🔲	Percenta	ge in flower:	%
CONDITION OF PLANT8:	Healthy 📓	Moderate 🗖	Poor 🗖	Sene	scent	
COMMENT:						
THREATS - type, agent	and supporting in	formation:			rrent Potential	Potential
Eg clearing, too frequent fire, we			,	ana an taona	paot Impaot I-E) (L-E)	Threat Onset
		w, M=Medium, H=High, E=E)), M=Medium (<syrs), l="Long</td"><td></td><td>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</td><td>(L-E)</td><td>(8-L)</td></syrs),>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(L-E)	(8-L)
Low population size			4-4-2-4			1
				!	<u>m h</u>	<u>m</u>
•						
•						

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORD S: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:_________ Sheet No.:______ Record Entered In Database D

Conservation a		Flora Repo	rt Form	1.0	ion 4.4 House 200
		гюга керо	it roini	Ven	sion 1.4 March 202
LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
Crest	Granite	(on soil surface; eg	Sand 🗖	Red D	Well drained
Hill 🗖	Dolerite	gravel, quartz fields)	Sandy loam	Brown	Seasonally
Ridge 🗖	Laterite		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	
Open depression 🔲	Specify other:	50-100% 🔲	Specify other:	Specify other:	
Drainage line					
Closed depression 🔲	Specific Landfor	m Element:			
Wetland	(Refer to field manual for		_		
CONDITION OF SOIL:	Dry 🗖	Moist 🗖	Waterlogged 🗖	inundated 🗖	
EGETATION	1.				
CLASSIFICATION*:		arpa over mixed heath.			
iteruata, B. Ilicitolia);	2.				
Den shrubland Hibbertia sp., Acadia spp.);	3.				
 Isolated clumps of sedges Mitetragona) 	4.				
SOCIATED				Assois seessbulls	
		Evenness continue			
SPECIES:		, Exocarpos sparteus, hiolata, Beveria sulcat			erculata Chorize
SPECIES: Other (non-dominant) spp Nease record up to four of the nd Survey Field Handbook gu CONDITION OF HABITAT	Coopernookia strop aciculare, Grevillea most representative vegetatio delines – refer to field manual	b. Exocarpos sparteus, hiolata, Beyeria sulcat nudiflora, Lepidospern n layers feth up to three domina for further information and struc Excellent Very go	a, Micromyrtus imbr na sp., Persoonia h int species in each layer). Si tural formation table.	ricata, Melaleuca tube elix, Cryptandra sp. tructural Formations should fo	low 2009 Australian So
SPECIES: Zher (non-dominant) spp Tease record up to four of the nd Survey: Field Handbook gu CONDITION OF HABITAT COMMENT:	Coopernookia strop aciculare, Grevillea most representative vegetatio delines – refer to tield manual	hiolata, Beyeria sulcat nudiflora, Lepidospern n layes (eth up to three domina for further information and since Excellent Very go	a, Micromyrtus imbr na sp., Persoonia h int species in each layer). Si tural formation table.	ricata, Melaleuca tube elix, Cryptandra sp. Indural Formations should fo Degraded Cor	low 2009 Australian So
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RECORD S: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:_______ Sheet No.:_____ Record Entered in Database D

Department of Biodiversi Conservation and Attrac	ty. Th	reatened a	and Priority			
CONTRACTOR AND TAKIN		Flora Rep	ort Form		Version 1.4 Ma	mh 2021
please complete as much of t				ordered in black.		
the form please refer to the Threatened & communities/threatened-clarits	Priority Flora Report Form	(TPRF) manual on the I	DBCA website at www.doom	wa.gov.au/olants-and-a	nimals/threatened-sce	cles-and-
TAXON: Guichenotia as	torickos			тр	FL Pop. No:	
OBSERVATION DATE:	26/09/2023	CONSE	RVATION STATU		New populat	ion M
			RVATION STATU	PHONE		_
ROLE: Environmental Of	rine Walkerden, Jul		NISATION: Shire o		0410008/74	+
	den@esperance.w		alaktion. Shire o	f Esperance		
	<u> </u>	·				
DESCRIPTION OF LOCATION	1					
West Point Road Reserve.4	2km West of Casc	ade and west Po	bint Road Intersection	on.		
				Rese	erve No:	
DBCA DISTRICT: Esperance	1	LGA: Esperand	e	Land manage		
DATUM: COO	RDINATES: (If UTM or	cords provided, Zone is a	aiso required) METH	OD USED:		
	Degrees 🔲 🛛 Deg	MinSec 🔲 UT	Ms 🖬 🛛 GP	S 📓 Different	ial GPS 🔲 🛛 N	tap 🗖
GDA94 / MGA94 Magazan Lat	/Northing: 63077	04.5	No. s	atellites:	Map used:	
	/Easting: 29820	18.2		dary polygon	Map scale:	
Unknown			captu	red:		
LAND TENURE:	ZONE: 51					
	Timber reserve	Private propert	D R	all reserve	Shire road	reserve
National park	State forest	Pastoral lease		ad reserve	Other Grown	
Conservation park	Water reserve	UCI	SLK/Pole	10	Specify other:	
POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N &TRUCTURE: Alive Dead QUADRAT & PRE SENT: &ummary Quad. Totals: Alive REPRODUCTIVE &TATE:	Plants M Mature: 73 No. S	tes):	Estimate C(Refer to for C) Clonal stems	Flow	Area of pop (m²) Note: Pis record cour (not percentages) for of quadrats (m²): ver	it as numbers database.
	iealthy 📓	Moderate 🗖	Poor 🗖	Seneso	ent 🗖	
COMMENT:						
THREAT\$ - type, agent and a				Curre Impa		Potential Threat
Eg clearing, too frequent fire, weed, dise Rate current and potential threat in				want. (N-E		Onset
Estimate time to potential impact:						(8-L)
•						
•						
•						_
					-	

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORDS: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:________ Sheet No.:______ Record Entered in Database D

ADVICEMENT OF		Attractions	Threatened a	na Priority		
			Flora Repo	ort Form	Vers	ion 1.4 March 202
ABITAT INFO	RMATION	u-				
LANDFOR		ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:
	est 🔲	Granite	(on soil surface; eg	Sand	Red	Well drained
	Hill 🔲	Dolerite	gravel, quartz fields)	Sandy loam	Brown	Seasonally
	ge 🔲	Laterite		Loam	Yellow	inundated
	op 🗖	Ironstone	0-10% 🔲	Clay loam	White	Permanently
	pe 🗖	Limestone	10-30% 🛛	Light clay	Grey	inundated
	lat 🛛	Quartz 🔲	30-50% 🔲	Peat	Black	Tidal
Open depress	_	Specify other:	50-100% 🔲	Specify other:	Specify other:	
Drainage I						
Closed depress						
Wetla	nd 🗖	Specific Landfor				
ONDITION OF 8	OIL:	(Refer to field manual for Dry	Moist	Waterlogged	inundated	
		, _	_			
EGETATION	DN*: _1	1. Eucalyptus pleur	ocarpa over mixed hea	ath.		
g: 1. Banksia wood		2.				
tteruata, B. Ilicitolia Open shrubland		3.				
Hibbertia sp., Acada I isolated clumps of	sedges -					
Mitetragona)	4	i .				
SPECIES:	_		ata, Styphelia lissanth			
Ther (non-dominant)			ata, Leucopogon sp. N ocarpos sparteus, Bey			Cryptandra sp.,
IRE HISTORY:	Las	t Fire: Season/Month	Year:	Fire intensity; H	oh 🗖 Medium 🗖 🛛 Low 🖡	No signs of fire
ENCING: ROAD SIDE MARP	ER8:	t Fire: Season/Month Not required M Not required M	Present 🔲 Repla Present 🖬 Repla	Fire Intensity: H ce / repair D ce / reposition D	Required Leng Required Qua	No signs of fire of h req'd:
ENCING: ROAD SIDE MARP	ER 8:	Not required M Not required M ease include recomm	Present 🗖 Repla	oe / repair 🛄 oe / reposition 🛄 tions and/or implemen	Required Leng Required Qua	gth req'd:
ENCING: ROAD SIDE MARP THER COMME helude date. Als LORA AUTHO ENCINE AUTHO PECIMEN:	KER 8: INT \$: (PI o include	Not required Not required ease include recomm details of additional	Present Repla Present Repla nended management ac	ce / repair ce / reposition ce / reposition co / repos	Required Len; Required Qua ted actions -	th req'd:
ENCING: ROAD BIDE MARP THER COMME Include date. Als Include date. Als Include date.	RISATIO Collecto WA Her	Not required Not required ease include recomm details of additional	Present Repla Present Repla nended management ac data available, and how <u>Re1000787, FT61000781</u> fon on authorisation and loenin s should be recorded above in	ce / repair ce / reposition ce / reposition co / repos	Required Len; Required Qua ted actions -	th req'd:
ENCING: ROAD SIDE MARP THER COMME holude date. Als clude date.	RISATIO Collecto WA Her	Not required Not required ease include recomm details of additional	Present Repla Present Repla nended management ac data available, and how <u>Replayers</u> for on autorsation and loaving schould be recorded above in the recorded above in the recorded above in the recor	ce / repair ce / reposition co / repo	Required Len; Required Qua ted actions -	th req'd:
ENCING: ROAD SIDE MARP OTHER COMME Include date. Als Include date.	RISATIO Collecto WA Her Lodger Map	Not required Not required ease include recommiderable of additional Not required recomminant details of additional Not recomminant squared. For turther informat inder authorisational one of the square of the square WA Here the square of the square Mudmap Photo and Office	Present Repla Present Repla nended management ac data available, and how <u>Replayson</u> 61000787, FT81000781 fon an adhorsation and Icenir is should be recorded above in 1 erb. Regional Heri GIS data Fie	ce / repair ce / reposition co / repo	Required Leng Required Cua ted actions -	r plant matieral is taken



Threatened and Priority

Flora Report Form Version 1.4 March 2021 Please complete as much of the form as possible, with emphasis on those sections bordered in black. For information on her to be the form please refer to the Threatened & Priority Flora Report Form (TPRF) manual on the DBCA website at <u>www.doan.wa.ovy.au/clarts-and-animals/threatened-species-and-</u>

TAXON: Guichenotia	asteriskos			TP	FL Pop. No:	
OBSERVATION DATE:	26/09/2023	CONS	ERVATION STAT	US: P2	New popula	tion 🛛
OBSERVER/S: Kati	herine Walkerden	, Julie Waters		PHON	E 041655877	4
ROLE: Environmental	Officer, Coordinat	tor ORGA	NISATION: Shire	of Esperance		
EMAIL: Katherine.Walk	erden@esperand	e.wa.gov.au				
DESCRIPTION OF LOCAT	ION (Provide at least ne	arest town/named locality, a	nd the distance and direction	on to that place):		
UCL. 150m NNW of Rolla	and Road at slk 8	1.04, 2.37km NE of	Rollond and Casca	ade Road intersect	ion.	
Chained firebreak.						_
					erve No:	
DBCA DISTRICT: Esperar DATUM: CC		LGA: Esperan		Land manag	er present: 🗖	
	ecDegrees		<u> </u>		tial GPS 🔲 🛛 🕅	/ap 🔲
GDA94 / MGA94	at / Northing: 63	09455.69		satellites:	Map used:	
_	ong / Easting: 30	4604.4		indary polygon	Map scale:	
Unknown	ZONE: 51		cap	tured:		
LAND TENURE:	2011. 01	1				
Nature reserve	Timber reserve	Private proper	ty 🗖	Rail reserve	Shire road	i reserve 🗖
National park	State forest 🗖			road reserve	Other Crown	n reserve
Conservation park	Water reserve	l uc	L 📓 SLK/Pole 🔤	to	Specify other:	
POP'N COUNT ACCURAC WHAT COUNTED:	e spent surveying (r Y: Actual Plants	ninutes): Extrapolation	No. of minut Estimate (Refer to Clonal stems	a observed (m²): es spent / 100 m²: Count method: a field manual for list)		
TOTAL POP'N STRUCTURE:	Mature:	Juveniles:	Seedlings:	Totals:		
Alive	16				Area of pop (m ² Note: Pis record cou	
Dead					(not percentages) for	
QUADRATS PRESENT:	No.	Size	Data attached	Total area	of quadrats (m ²):	
Summary Quad. Totals: Alve						
REPRODUCTIVE STATE:	Cional 🛄 ature fruit 🖾	Vegetative Fruit	Flowerbud Dehisced fruit		wer 🔤 e in flower: <u>20</u> %	
CONDITION OF PLANTS: COMMENT:	Healthy 🗖	Moderate	Poor	-	cent 🗖	
THREAT \$ - type, agent an Eg dearing, too frequent fire, weed, Faite current and potential threa Estimate time to potential impar	disease. Refer to field m at impact: N=Nil, L=Low,	anuai for list of threats & age M=Medium, H=High, E=Extr	eme	Curre relevant. Impa (N-8	ot Impaot	Potential Threat Onset (8-L)
•						
•						
•						

Please return completed form to Species And Communities Program DBCA,

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORD S: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:_________ Sheet No.:______ Record Entered In Database D

Conservation	Biodiversity, and Attractions	Threatened a	nd Priority		
ACCOUNTS AND A		Flora Repo	rt Form	Versi	on 1.4 March 2021
HABITAT INFORMATI	ION:				
LANDFORM: Crest	ROCK TYPE:	LOO SE ROCK: (on soil surface; eg	SOIL TYPE: Sand 🗖	SOIL COLOUR: Red	DRAINAGE: Well drained
Hill 🖬 Ridge 🔲	Dolerite	gravel, quartz fields) 0-10% 🔲	Sandy loam 🖬 Loam 🔲	Brown	Seasonally inundated
Outcrop 🗖 Slope 🗖 Flat 🗙	Limestone	10-30% X 30-50%	Clay loam 🔲 Light clay 🔲 Peat 🗖	White Grey Grey Grey	Permanently inundated D Tidal D
Open depression		50-100% 🔲	Specify other:	Specify other:	
Drainage line					
Closed depression	Specific Landforn	m Element:			
Wetland	(Refer to field manual for	additional values)		_	
CONDITION OF SOIL:	Dry 🗖	Moist 🗖	Waterlogged 🔲	inundated 🗖	
VEGETATION CLASSIFICATION*: Eg: 1. Banksia woodland (B.	1. Mixed Myrtaceous	and Proteaceous hea	ith.		
attenuata, B. Ilicitolia); 2. Open shrubland	3.				
(Hibbertia sp., Acada spp.); 3. isolated clumps of sedges					
(Mitetragona)	4.				
ASSOCIATED SPECIES:		omyrtus imbricata, Da orizema aciculare, Hal			
Other (non-dominant) spp			at a second second second second second		
Land Survey Field Handbook g	e most representative vegetation uidelines – refer to field manual			uctural Pormations should fold	W 2009 Australian Soli and
CONDITION OF HABITA COMMENT:	T: Pristine 🗖	Excellent 🖬 Very go	od 🔲 🛛 Good 🗖	Degraded 🔲 Com	pletely degraded
FIRE HISTORY: L	ast Fire: Season/Month:	Year:	Fire intensity: Hig	jh 🗖 Medium 📮 Low 🕻	No signs of fire 🗖
FENCING:	Not required 📓	Present 🗖 🛛 Replac	e / repair 🗖	Required 🔲 🛛 Leng	th reg'd:
ROAD SIDE MARKER 8:	Not required 📓	Present 🗖 🛛 Replac	e / reposition 🗖	Required 🔲 Quar	ntity req'd:
	(Please include recomm de details of additional o			ed actions -	
then no authorisation/licence is	ION / LICENCE No: FT s required. For further informati ut under authorisations/Toences	on on authorisation and licening	requirements see the Threa		
SPECIMEN: Collect KSW03423	ctors No: WA He	erb. 🛛 Regional Herb	District Herb.	Other:	
J 3	ement No:				
ATTACHED: Map	Mudmap Photo	GIS data 📓 Field	i notes 🔲 🛛 🤇	Other:	
COPY SENT TO:	gional Office Distric	t Office 📓 🛛 O	ther:		
Submitter of Record: Ka	atherine Walkerden	Role: Environmental Off	icer Signed:	Date: 03	/10/2023

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORDS: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:________ Sheet No.:______ Record Entered in Database D

Grevillea aneura

Department of Biodi	versity, Attractions	hreatened	and Priority			
CONTRACTOR AND TAKEN		Flora Reg	oort Form		Version 1.4	March 2021
Please complete as much	of the form as possi	ble, with emphasi	s on those sections t	ordered in black	C. For information or	how to complete
the form please refer to the Threater communities/threatened-clarits	ed & Priority Flora Report Fo	orm (TPRF) manual on th	e DBCA website at <u>www.dba</u>	e waldow au/olants-and	Sanimals/threatened	species and
TAXON: Grevillea a	neura			т	PFL Pop. No:	
OBSERVATION DATE:	26/09/2023	CON	SERVATION STATU	S: P4	New popu	ulation 🛛
OBSERVER/S: Ka	therine Walkerden,	Julie Waters		PHON	VE 0416558	774
ROLE: Environemntal	l Officer, Coordinato	r ORG	ANISATION: Shire	of Esperance		
EMAIL: Katherine.Wa	kerden@esperance	.wa.gov.au				
DESCRIPTION OF LOCAT	FION (Provide at least near	est town/named locality.	and the distance and direction	to that place C		
Cascade Road reserve.						
Rehabilitated gravel pit.					_	_
					serve No:	
DBCA DISTRICT: Espera		LGA: Espera			ger present: 📓	
	OORDINATES: (If UTI) DecDegrees 🔲 D		-	HOD U SED: PS 🖬 Differe	ential GPS 🔲	Map 🗖
GDA94 / MGA94 📓		7010	_	satellites:	Map used:	
AGD84 / AMG84	·			idary polygon		
	ong / Easting: 294	366		ured:	Map scale	
Unknown 🔲	ZONE: 51					
LAND TENURE:						_
Nature reserve	Timber reserve	Private prope		Rail reserve		road reserve
National park	State forest	Pastoral les		oad reserve 🔲 88.35 to 87.28	Specify other:	own reserve
					apacity amer.	
AREA ASSESSMENT: E	· · -			observed (m2):		
	ne spent surveying (mi			s spent / 100 m ² :		
POP'N COUNT ACCURAC	CY: Actual 🔲	Extrapolation	Estimate	Count method: field manual for list)		
WHAT COUNTED:	Plants	Clumps	Clonal stems			
TOTAL POP'N STRUCTURE	_	Juveniles:	Seedlings:	Totals:	1	
Alive					Area of pop	m ²):
						count as numbers
Dead				-	(not percentages	
QUADRATS PRESENT:	No	Size	Data attached	Total area	a of quadrats (r	n²):
Summary Quad. Totals: Aliv						
REPRODUCTIVE STATE:	Cional 🔲 nature fruit 🔲	Vegetative 🔲 Fruit 🗖	Flowerbud 🔲 Dehisced fruit 🔲		lower 📓 ge in flower: <u>90</u> %	•
CONDITION OF PLANT 8:	Healthy 📓	Moderate 🗖	Poor 🗖	Sene	scent 🗖	
COMMENT: Plant was k	cally common					
THREATS - type, agent a	nd supporting inform	ation:		Cur	rent Potenti	al Potential
Eg clearing, too frequent fire, week			ents. Specify agent where re	ievant. Imp	paot Impao	t Threat
Rate current and potential thr	sat impact: N=NII, L=Low, M	=Medium, H=High, E=Ed	berne		-E) (L-E)	Onset (8-L)
Estimate time to potential imp	act: S=Short (<12mths), M=1	Medium (<syrs), l="Long</td"><td>(Syrs+)</td><td></td><td></td><td>[0-L]</td></syrs),>	(Syrs+)			[0-L]
•						
•						

Please return completed form to Species And Communities Program DBCA,

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORDS: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:_________ Sheet No.:______ Record Entered In Database D

Conservatio		-				
GOODERSENT OF RECEIPTING ALETHALIA		1	Flora Rep	ort Form	Ve	rsion 1.4 March 202
ABITAT INFORMA						
LANDFORM: Crest		nite 🔲 🛛	IOOSE ROCK: on soil surface; eg ravel, quartz fields)	SOIL TYPE: Sand	SOIL COLOUR: Red	
Hill		erite 🖬	,	Sandy loam	Brown	inundated
Ridge		erite	0-10% 🔲	Loam	Yellow	Bermanenthu
Outcrop		one 🔲	10-30% 🛛	Clay loam	White	inundated
Slope		one 🔲	30-50% 🛛	Light clay	Grey 🗖	i idai
Flat		artz 🔲	50-100% 🔲	Peat 🗖	Black	
Open depression		other:		Specify other:	Specify other:	
Drainage line						_
Closed depression	Specific	Landform El	ement:			
Wetland	 (Heller to hell 	d manual for additio	<u> </u>		_	
ONDITION OF SOIL:	Dry		Moist 🗖	Waterlogged 🔲	inundated 🗖	
EGETATION	1. Eucalypt	us pleurocarp	oa and Hakea lau	ırina over mixed shru	ıbland.	
ig: 1. Banksia woodland (E fieruata, B. ilicifolia);	2.					
Open shrubland	3.					
Hibbertia sp., Acadia spp.) Isolated clumps of sedge (Metragona)						
SOCIATED		anapies inclu	dae: Uakaa mul	tilineata, Synaphea s	n Isonogon sn Pe	etrophile fastigiata
PECIES: ther (non-dominant) spp lease record up to four of i nd Survey Field Handbook	Callitris roe sp., Lysiner most representati guidelines – refer to	i, Banksia sp ma sp. ve vegetation lave field manual for fu	s, Verticordia sp.	, Leptospermum spin	iosum, Eucalyptus f	toliow 2009 Australian Sc
PECIES: ther (non-dominant) spp lease record up to four of 1 d Survey Field Handbook CONDITION OF HABIT	Callitris roe sp., Lysiner most representati guidelines – refer to AT: Pristine	i, Banksia sp ma sp. ve vegetation laye field manual for fu E E Exce	s (with up to three dominister information and str elient Very (, Leptospermum spin	inosum, Eucalyptus f Inuctural Formations should 1 Degraded 🛄 Co	orrestiana, Damp Iolow 2009 Australian So ompletely degraded
SPECIES: Sther (non-dominant) spp lease record up to four of 1 ad Survey Field Handbook CONDITION OF HABIT COMMENT: FIRE HISTORY:	Callitris roe sp., Lysiner most representat guidelines – refer to AT: Pristin Last Fire: Seas	i, Banksia sp ma sp. ve vegetation lave field manual for fu e E Exce con/Month:	s (with up to three dominister information and str elient Very g Year:	, Leptospermum spin nart species in each layer). Si uctural formation table. good G Good G Fire Intensity: H	inosum, Eucalyptus f Inuctural Formations should 1 Degraded C Igh Medium Lov	orrestiana, Damp tolow 2009 Australian So ompletely degraded w 🔲 No signs of fire
SPECIE S: Ster (non-dominant) spp lease record up to four of i ad Survey Field Handbook CONDITION OF HABIT COMMENT: SOMMENT: EIRE HISTORY: EIRCING: ROAD BIDE MARKER B	Callitris roe sp., Lysiner under representati guidelines – refer to AT: Pristine Last Fire: Seas Not requir Not requir	i, Banksia sp ma sp. ve vegetation lave field manual for fu e Exce con/Month: ed Pr ed Pr	s (with up to three dom ther information and str altent Very (Year: esent Repl esent Repl	, Leptospermum spin	Inosum, Eucalyptus f Inuctural Formations should t Degraded C G Igh C Medium C Low Required C La Required C Q	orrestiana, Damp Iolow 2009 Australian So ompletely degraded
SPECIE S: Ster (non-dominant) spp lease record up to four of i ad Survey Field Handbook CONDITION OF HABIT COMMENT: SOMMENT: EIRE HISTORY: EIRCING: ROAD BIDE MARKER B	Callitris roe sp., Lysiner guidelnes - refer to AT: Pristine Last Fire: Seas Not requir : Not requir : Not requir	i, Banksia sp ma sp. teid manual for fu e Exco con/Month: ed Pr ed Pr e recommende	s (effi up to three dom ther information and str ellent Very (Year: esent Repl esent Repl ed management a	, Leptospermum spin	Inosum, Eucalyptus f Inuctural Formations should t Degraded C G Igh C Medium C Low Required C La Required C Q	orrestiana, Damp tolow 2009 Australian So ompletely degraded v No signs of fire ength req'd:
SPECIES: ther (non-dominant) spp lease record up to four of in d Survey Field Handbook CONDITION OF HABIT COMMENT: STRE HISTORY: FIRE HISTORY: FIRE HISTORY: FIRE HISTORY: FIRE COMMENTS INCLUDE date. Also include date. Also include Also include date. Also include date. Also include date. Also include date. Also include date. Also include date. Also include date. Also include date.	Callitris roe sp., Lysiner ust representat guidelines – refer to AT: Pristin Last Fire: Seas Not requir Not requir Not requir (Please includ lude details of a	i, Banksia sp ma sp. ve vegetation layer feld manual for fur e E Exce con/Month: Pr e d Pr e recommended dditional data	., Verticordia sp. s (eth us to three dom ther information and str elient Very (Year:	Leptospermum spin nant species in each layer). Si uctural formation table good G Good G Fire Intensity: H ace / repair G ace / reposition G ctions and/or implement v to locate it.)	r plant matieral is taken) the	orrestiana, Damp tolow 2009 Australian So ompletely degraded v No signs of fire ength req'd: uantity req'd:
SPECIES: ther (non-dominant) spp lease record up to four of in d Survey Field Handbook CONDITION OF HABIT COMMENT: STRE HISTORY: FIRE HISTORY: FIRE HISTORY: FIRE HISTORY: FIRE COMMENTS INCLUDE date. Also include date. Also include Also include date. Also include date. Also include date. Also include date. Also include date. Also include date. Also include date. Also include date.	Callitris roe sp., Lysiner guidelnes – refer to AT: Pristine Last Fire: Seas Not requir Not requir Not requir (Please includ lude details of a	i, Banksia sp ma sp. ve vegetation layer feld manual for fur e E Exce con/Month: Pr e d Pr e recommended dditional data	., Verticordia sp; Verticordia sp; (et in up to three dom ther information and str ther information and str elent Vear: Vear: Vear: Vear: Vear: Perent Repi esent Repi ed management a available, and how Note if only observe rements see the Threat ER COMNENTS seeds	Leptospermum spin nant species in each layer). Si uctural formation table good G Good G Fire Intensity: H ace / repair G ace / reposition G ctions and/or implement v to locate it.)	r plant matieral is taken) the	orrestiana, Damp tolow 2009 Australian So ompletely degraded v No signs of fire ength req'd: uantity req'd:
SPECIE S: ther (non-dominant) spp lease record up to four of in d Survey Field Handbook condition of HABIT comment: EIRE HISTORY: EIRE HISTORY: EIRE COMMENTS include date. Also include date authorsations/locate EIRE COMMENTS include date. Also include date authorsations/locate EIRE COMMENTS include date. Coll EIRE COMMENTS COLLER COLLER EIRE COLLER COLLER EIRE COLLER COLLER EIRE COLLER COLLER EIRE COLLER COLLER EIRE COLLER EIRE C	Callitris roe sp., Lysiner permost representat guidelines – refer to AT: Pristine Not requir Not requir Not requir (Please includ lude details of a TION / LICENC film on authorisatio s should be recorder ectors No: Herb gement No:	i, Banksia sp ma sp. ve vegetation lave field manual for fu e Exce con/Month: ed Pr erecommende dditional data E NO: E N	., Verticordia sp, Verticordia sp, Verticordia sp	Leptospermum spin nant species in each layer). So uctural formation table. good Fire intensity: H ace / reposition to locate it.) g plants (Le. no specimens or end Flora and Wild ife Licens n.	r plant matieral is taken) the	orrestiana, Damp tolow 2009 Australian So ompletely degraded v No signs of fire ength req'd:
EPECIE S: ther (non-dominant) spp lease record up to four of in d Survey Field Handbook cONDITION OF HABIT COMMENT: IRE HISTORY: ENCING: NOAD SIDE MARKER S THER COMMENTS include date. Also include date adhotalons/locator PECIMEN: Col SW03623 ODGEMENT: W/	Callitris roe sp., Lysiner permost representat guidelines – refer to AT: Pristine Not requir Not requir Not requir (Please includ lude details of a TION / LICENC film on authorisatio s should be recorder ectors No: Herb gement No:	i, Banksia sp ma sp. ve vegetation lave field manual for fu e Exce con/Month: ed Pr ed Pr e recommende dditional data E NO: and icening regu- tabove in the OTP WA Herb. Market <u>FT61000788</u> <u>FT61000788</u> Photo		Leptospermum spin Inart species in each layer). Succural formation table. good Fire Intensity: H ace / repair ace / repair ctions and/or implement to locate it.) glants (Le. no specimens or ened Flora and Wild ife Licens District Herb.	r plant matieral is taken) the	orrestiana, Damp tolow 2009 Australian So ompletely degraded v No signs of fire ength req'd: uantity req'd:
EPECIES: ther (non-dominant) spp lease record up to four of in d Survey Field Handbook condition of HABIT comment: EIRE HISTORY: EIRE HISTORY: EIRE HISTORY: EIRE HISTORY: EIRE COMMENTS Intel Comm	Callitris roe sp., Lysines guidelnes – refer to AT: Pristine Last Fire: Seas Not requir Not requir Not requir Not requir (Please includ lude details of a Citer on authorisation s should be recorder ectors No: Herb gement No: Mudmap	i, Banksia sp ma sp. ve vegetation lave field manual for fu e Exce con/Month: ed Pr ed Pr e recommende dditional data E NO: hand loening regul tabove in the OTH WA Herb. <u>FT61000788</u> <u>Photo</u> cus	., Verticordia sp. s (with up to three dom ther information and str elent Veny g esent Pepi esent Repl esent Repl ed management a available, and how Note if only observi Informatics see the Threat ReplomMENTS seetic Regional Herb. 3, 5 data Kara Field	Leptospermum spin Inart species in each layer). Succural formation table. good Fire Intensity: H ace / repair ace / repair ctions and/or implement to locate it.) glants (Le. no specimens or ened Flora and Wild ife Licens District Herb.	rosum, Eucalyptus fructural Formations should the Degraded Control of the Control	orrestiana, Damp tolow 2009 Australian So ompletely degraded v No signs of fire angth req'd: uantity req'd:

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORDS: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:________ Sheet No.:______ Record Entered in Database D

mmunites/hreatened-slants TAXON: Grevillea anei	ura			Т	PFL Pop. No:	
OBSERVATION DATE:	26/09/2023	CON	SERVATION STATU		New populat	ion 🛛
OBSERVER/S: Kathe	rine Walkerden	, Julie Waters		PHON	IE 0416558774	4
ROLE: Environemntal O	fficer, Coordinat	tor ORG	ANISATION: Shire of	of Esperance		
EMAIL: Katherine.Walke	rden@esperanc	e.wa.gov.au				
DESCRIPTION OF LOCATIO	1					
Cascade Road reserve. 13 Chained firebreak	.32km NNW of	Cascade and Wes	t Point Road Intersect	lion.		
Shalled mebleak				Rea	serve No:	
DBCA DISTRICT:		LGA:		Land manag	ger present:	
		TM coords provided, Zone	<u> </u>	IOD USED:		_
GDA94 / MGA94	-	· _		_		tap 🗖
AGD84 / AMG84	t / Northing: 63	51/940		atellites:	Map used:	
	g/Easting: 29	93082	captu	dary polygon red:	Map scale:	
Unknown	ZONE: 51	1				
AND TENURE:				-		
Nature reserve	Timber reserve			tail reserve 🗖	Shire road	
National park	State forest	Pastoral les	ose 🔲 🛛 🛛 MRWA m	ad reserve 🗖	Other Crown	reserve
EFFORT: Time	spent surveying (r	l L	UCL SLK/Pole	bbserved (m ²): spent / 100 m ² : Count method:	Other Crown Specify other:	reserve
Conservation park	Water reserve	artial survey F minutes):	UCL SLK/Pole UII survey Area of No. of minutes Estimate ((Refer to fi Clonal stems (to observed (m ²): spent / 100 m ² :		reserve
Conservation park	Water reserve	artial survey F minutes): Extrapolation Clumps	UCL SLK/Pole UII survey Area of No. of minutes Estimate ((Refer to fi Clonal stems (to observed (m ²): a spent / 100 m ² : Count method: eld manual for list)	Specify other:	
Conservation park	Water reserve	artial survey F minutes): Extrapolation Clumps	UCL SLK/Pole UII survey Area of No. of minutes Estimate ((Refer to fi Clonal stems (to observed (m ²): a spent / 100 m ² : Count method: eld manual for list)	Area of pop (m²)	:
Conservation park	Water reserve e survey P spent surveying (r Actual Plants Mature:	Artial survey F minutes): F Extrapolation Clumps Cl	JCL SLK/Pole UII survey Area of No. of minutes Estimate () (Refer to fi Clonal stems () Seedlings:	to abserved (m²): a spent / 100 m²: Count method: eld manual for list) Totala:	Area of pop (m²) Note: Pis record cour (not percentages) for	:t as numbe database.
Conservation park AREA ASSESSMENT: Edg EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive Dead QUADRAT \$ PRE SENT:	Water reserve	artial survey F minutes): Extrapolation Clumps	UCL SLK/Pole UII survey Area of No. of minutes Estimate ((Refer to fi Clonal stems (to abserved (m²): a spent / 100 m²: Count method: eld manual for list) Totala:	Area of pop (m²)	:t as numbe database.
Conservation park	Vater reserve	Artial survey F minutes): Extrapolation Clumps Juveniles:	JUL SLK/Pole	to to to the second sec	Area of pop (m²) Note: Pis record cour (not percentages) for	:t as numbe database.
Conservation park	Water reserve	Clumps I Juventles: Size	JCL SLK/Pole Ull survey Area of No. of minutes Estimate ((Refer to fi Clonal stems) Seedlings: Data attached [to	Area of pop (m ²) Note: Pis record cour (not percentages) for of quadrats (m ²):	:t as numbe database.
Conservation park	Water reserve	Clumps Clumps Size	JUL SLK/Pole	to interved (m²): spent / 100 m²: Count method: eld manual for list) Totals: Total area Fit Percentag	Area of pop (m²) Note: Pis record cour (not percentages) for a of quadrats (m²):	: t as numbo database.
Conservation park	Water reserve	Clumps Clumps Size Vegetative Fruit	JCL SLK/Pole	to spent / 100 m²: count method: eld manual for list) Totals: Total area Fili Percentag Senes	Area of pop (m ²) Note: Pis record court (not percentages) for or of quadratis (m ²): ge in flower: <u>90%</u> scent	: t as numb database
Conservation park	Water reserve	Aartial survey Fminutes): Extrapolation Clumps Juvenlles: Size Vegetative Fnuit Moderate	JCL SLK/Pole	to	Area of pop (m²) Note: Pis record cour (not percentages) for of quadrats (m²): ge in flower: <u>90%</u> scent C	: ti as numb database. Potenti
Conservation park	Water reserve	Aartial survey Fminutes): Extrapolation Clumps Juvenlles: Size Size Vegetative Fruit Moderate mation: aruai for list of freeats & ag	JCL SLK/Pole	to	Area of pop (m ²) Note: Pis record court (not percentages) for of quadrats (m ²): ge in flower: <u>90%</u> scent rent Potential mpaot	: database. Potenti Threa Onse
Conservation park	Water reserve	Aartial survey F minutes): Extrapolation Clumps Juventles: Juventles: Size Vegetative Fruit Moderate mation: anal for ist of threats & ag M=Medum, H=Hgh, E=Ext	JCL SLK/Pole	to tabserved (m²): spent / 100 m²: Count method: eid manual for list) Totals: Total area Fit Percentag Senes want.	Area of pop (m ²) Note: Pis record court (not percentages) for of quadrats (m ²): ge in flower: <u>90%</u> scent rent Potential mpaot	: database. Potenti Threa Onset
Conservation park	Water reserve	Aartial survey F minutes): Extrapolation Clumps Juventles: Juventles: Size Vegetative Fruit Moderate mation: anal for ist of threats & ag M=Medum, H=Hgh, E=Ext	JCL SLK/Pole	to tabserved (m²): spent / 100 m²: Count method: eid manual for list) Totals: Total area Fit Percentag Senes want.	Area of pop (m ²) Note: Pis record court (not percentages) for of quadrats (m ²): ge in flower: <u>90%</u> scent rent Potential mpaot	: database. Potenti Threat Onset
Conservation park	Water reserve	Aartial survey F minutes): Extrapolation Clumps Juventles: Juventles: Size Vegetative Fruit Moderate mation: anal for ist of threats & ag M=Medum, H=Hgh, E=Ext	JCL SLK/Pole	to tabserved (m²): spent / 100 m²: Count method: eid manual for list) Totals: Total area Fit Percentag Senes want.	Area of pop (m ²) Note: Pis record court (not percentages) for of quadrats (m ²): ge in flower: <u>90%</u> scent rent Potential mpaot	: database. Potenti Threa Onse
Conservation park AREA ASSESSMENT: Edg EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N 8TRUCTURE: Alive Dead QUADRAT S PRE SENT: 8ummary Quad. Totals: Alive REPRODUCTIVE 8TATE: Immate CONDITION OF PLANT8: COMMENT: Plant was local THREATS - type, agent and Eg dearing, too frequent fire, weed, de Rate current and potential thread	Water reserve	Aartial survey F minutes): Extrapolation Clumps Juventles: Juventles: Size Vegetative Fruit Moderate mation: anal for ist of threats & ag M=Medum, H=Hgh, E=Ext	JCL SLK/Pole	to tabserved (m²): spent / 100 m²: Count method: eid manual for list) Totals: Total area Fit Percentag Senes want.	Area of pop (m ²) Note: Pis record court (not percentages) for of quadrats (m ²): ge in flower: <u>90%</u> scent rent Potential mpaot	:t as numbe database.

	nt of Biodiversity, tion and Attractions	Threatened a	nd Priority				
CONTRACTOR ANTINALA		Flora Repo	rt Form	Versi	on 1.4 March 2021		
HABITAT INFORM	ATION:						
LANDFORM:	ROCK TYPE:	LOOSE ROCK:	SOIL TYPE:	SOIL COLOUR:	DRAINAGE:		
Crest		(on soil surface; eg gravel, quartz fields)	Sand 🔲	Red 🔲	Well drained 🔲		
Hill	Dolerite		Sandy loam 🔲	Brown 🔲	Seasonally inundated		
Ridge		0-10%	Loam 🔲	Yellow 🗖	inundated Permanently		
Outcrop		10-30%	Clay loam	White 🗖	inundated		
Slope		30-50%	Light clay 🔲	Grey 🗖	Tidal 🔲		
Flat		50-100%	Peat 🗖	Black			
Open depression			Specify other:	Specify other:			
Drainage line		_					
Closed depression	Specific Landf	orm Element:					
Wetland	 (Keter to held manual) 	<u>~</u>		_			
CONDITION OF 801	.: Dry 🗖	Moist 🗖	Waterlogged 🗖	inundated 🗖			
VEGETATION CLASSIFICATION	·	rocarpa over mixed shru	ıbland.				
Eg: 1. Banksia woodland attenuata, B. Ilicitolia);	(B. 2.						
 Open shrubland (Hibbertia sp., Acadia sp.) 	3.						
 Isolated clumps of sed (Mitetragona) 	ges 4.						
A\$SOCIATED	Associated specie	sncludes:Verticordia sp	., Melaleuca tubercu	ilata, Leptospermum	sp.		
SPECIES: Other (non-dominant) sp	Micromyrtus imbri	cata, Lysinema sp., Aca	cia sp., Dampiera sp).			
		tion layers (with up to three domina		uctural Formations should folio	w 2009 Australian Soli and		
CONDITION OF HAB	· _	ual for further information and struc Excellent Market Very go		Degraded 🗖 Com	pletely degraded 🔲		
COMMENT:				beginnes and	prenely organized 🔤		
FIRE HISTORY:	Last Fire: Season/Mon	th: Year:	Fire intensity: Hig	ph 🗖 Medium 🗖 🛛 Low 🗖	No signs of fire 🗖		
FENCING:	Not required 🔤	Present 🗖 🛛 Replac	e / repair 🗖	Required 🔲 🛛 Leng	th regid:		
ROAD SIDE MARKER	8: Not required 📓	Present 🗖 🛛 Replac	e / reposition 🗖	Required 🔲 Quar	dity req'd:		
		mended management acti		ed actions -			
include date. Also i	nclude details of additiona	al data available, and how t	o locate it.)	_			
FLORA AUTHORISATION / LICENCE No: FT61000788, FT61000787 Note if only observing plants (i.e. no specimens or plant material is taken) then no authorisation/licence is required. For further information on authorisation and licening requirements see the Threatened Flora and Wildlife Licensing pages on DBCA's website. Any actions carried out under authorisations/licences should be recorded above in the CTHER COMMENTS section.							
	ollectors No:	erb. 🛛 Regional Herb. 🕻		Other:			
LODGEMENT.	/A Herb odgement No:						
ATTACHED:	ap Mudmap Photo	GIS data 📓 🛛 Field r	otes 🔲 🛛 Ot	her:			
COPY SENT TO:	Regional Office Distric	at Office 🖬 🛛 Othe	er:				
Submitter of Record	Katherine Walkerden	Role: Environmental Off	icer Signed:	Date: 03	/10/2023		

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORD\$: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:_______ Sheet No.:______ Record Entered in Database D

Department of Bloc Conservation and	liversity, Attractions	Threatened	3	/		
Please complete as much the form please refer to the Threate communities/Threatened-clarits		ssible, with emphasi				to complete
TAXON: Grevillea a	ineura			Т	PFL Pop. No:	
OBSERVATION DATE	26/09/2023	CON	SERVATION STATU	JS: P4	New populat	tion 🛛
OBSERVER/S: Ka	therine Walkerde	n, Julie Waters		PHO	NE 0416558774	4
ROLE: Environemnta	I Officer, Coordina	ator ORG.	ANISATION: Shire	of Esperance		
EMAIL: Katherine.Wa	lkerden@esperan	ce.wa.gov.au		·		
DESCRIPTION OF LOCA	TION (Provide at least r	warment trauminarment invasity	and the distance and direction	o to that place?"		
West Point Road Reser	· ·	p.				
	ve. i i i okini webi o					
				Re	serve No:	
DBCA DISTRICT: Esper	ance	LGA: Espera	nce	Land mana	ger present:	_
DATUM: C	COORDINATES: (If	UTM coords provided, Zone	is also required) MET	THOD USED:		
_	DecDegrees 🔲			PS 🖬 Differe	ential GPS 🔲 🛛 🛛	tap 🔲
GDA94 / MGA94	Lat / Northing: 6	308200	No.	satellites:	Map used:	
AGD84 / AMG84		01209	Bou	ndary polygon		
Unknown	Long / Easting: 3	01208	cap	tured: 🔲	Map scale:	
	ZONE: 5	i1				
LAND TENURE:		-	-	-		_
Nature reserve	Timber reserve State forest			Rail reserve	Shire road Other Crown	reserve
National park	Water reserve		CL CL SLK/Pole	road reserve	Specify other:	reserve 🖬
AREA ASSESSMENT: 1 EFFORT: TH POP'N COUNT ACCURA WHAT COUNTED:	ne spent surveying		No. of minute Estimate	observed (m ²): es spent / 100 m ² : Count method: field manual for list)		
TOTAL POP'N STRUCTURE	_	Juveniles:	Seedlings:	Totals:	1	
	: Mature.	Juvennes.	seedings.	Totals.		_
Alive					Area of pop (m ²)	
Dead					Note: Pis record count (not percentages) for	
QUADRATS PRESENT:	No.	Size	Data attached	Total area	a of quadrats (m ²):	
Summary Quad. Totals: All	AB.				7	
REPRODUCTIVE STATE:	Cional 🗖	Vegetative 🗖	Flowerbud	F	lower	
Im	mature fruit 🗖	Fruit 🗖	Dehisced fruit 🔲	Percenta	ige in flower: 90%	
CONDITION OF PLANT 8: COMMENT: Plant was I	Healthy 📓 ocally common	Moderate 🗖	Poor 🗖	Sene	escent	
THREAT \$ - type, agent a				line	rrent Potential paot Impaot	Potential Threat
Eg clearing, too frequent fire, wee				elevant.	I-E) (L-E)	Onset
· · · ·		r, M≓Medium, H=High, E=Ext M≓Medium (<9yrs), L=Long i		,	, (,	(8-L)
		A short of the state of the				
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•	рана (стр. р. стр. стр. стр. стр. стр. стр. ст					
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						-

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORD\$: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:_______ Sheet No.:______ Record Entered in Database D

Department of Conservation	Biodiversity, and Attractions	Threatened ar	nd Priority		
CONTRACTOR AND TAKEN		Flora Repo	rt Form	Versi	ion 1.4 March 2021
HABITAT INFORMAT	ION:	-			
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	0-10%	Loam 🔲	Yellow 🗖	inundated
Outcrop	Ironstone	10-30%	Clay loam	White 🗖	Permanently inundated
Slope 🗖	Limestone	30-50%	Light clay 🔲	Grey 🗖	Tidal 🔲
Flat 🗖	Quartz 🗖	50-100%	Peat 🗖	Black	
Open depression	Specify other:	00-100 je 🖬	Specify other:	Specify other:	
Drainage line					
Closed depression	Specific Landfor	m Element:			
Wetland	(Refer to field manual for				
CONDITION OF SOIL:	Dry 🗖	Moist 🗖	Waterlogged 🗖	inundated 🗖	
VEGETATION	1. Eucalyptus sp. ov	ver mixed heath.			
CLASSIFICATION*: Ex: 1. Banksia woodland (B.	2.				
attenuata, B. Ilcitolia); 2. Open shrubland					
(Hibbertia sp., Acadia spp.);	3.				
 Isolated clumps of sedges (M.tetragona) 	4.				
A\$SOCIATED	Verticordia sp., Bey	eria sulcata, Lepidospe	erma sp., Cooperno	okia strophiolata, Mela	aleuca tuberculata,
SPECIES:		Cryptandra sp., Greville			
Other (non-dominant) spp	Grevilea nudiflora.				
		n layers (with up to three domina i for further information and struct		ructural Formations should folio	w 2009 Australian Soli and
CONDITION OF HABITA	T: Pristine	Excellent M Very go	d 🗖 Good 🗖	Degraded 🔲 Com	pietely degraded
COMMENT:	_	_ /0		•	
FIRE HISTORY: L	ast Fire: Season/Month	: Year:	Fire intensity: Hig	gh 🗖 Medium 🗖 🛛 Low 🖬	No signs of fire 🗖
FENCING:	Not required 🔤	Present 🗖 🛛 Replac	e / repair 🗖	Required 🔲 🛛 Leng	th reg'd:
ROAD SIDE MARKER 8:	Not required 📓	Present 🗖 🛛 Replac	e / reposition 🗖	Required 🔲 Quar	ntity req'd:
OTHER COMMENTS:	(Please include recomr	nended management acti	ons and/or implement	ed actions -	
include date. Also inclu	ude details of additional	data available, and how t	o locate it.)		
FLORA AUTHORISAT	ION / LICENCE No: F	F61000787, FT61000788	Note if only observing p	iants (i.e. no specimens or plar	nt matienal is taken) then
		in authorisation and licening requi be recorded above in the OTHEF		d Flora and Wildlife Licensing;	ages on DBCA's website.
	ctors No: WA Her			Other:	
LODGEMENT: WA	Herb FT610 gement No: FT610				
ATTACHED: Map		_	otes 🔲 🛛 Ot	her:	
_	unional Office	Office 🖬 Othe	er:		
Submitter of Record: Ki	atherine Walkerden	Role: Environmental Offi	icer Signed:	Date: 02	3/10/2023
		and a second sec		0.	
Plea	se return complet	ed form to Species	And Communi	ties Program DB	CA,

Conservation and Attra	sity, actions	nreatened	and Priority				
Internation of the second seco		Flora Rep	port Form		Ve	rsion 1.4 Ma	rch 2021
Vease complete as much of e form please refer to the Threatened comunities/Incatened-clarits							
TAXON: Grevillea anei	ura				TPFL F	Pop. No:	
OBSERVATION DATE:	26/09/2023	CON	SERVATION STATU	S: P4	N	ew populat	tion 🛛
OBSERVER/S: Kathe	rine Walkerden,	Julie Waters		F	HONE	0416558774	4
ROLE: Environemntal O	fficer, Coordinat	or ORG	ANISATION: Shire	of Esperan	ce		
EMAIL: Katherine.Walke	rden@esperanc	e.wa.gov.au					
DESCRIPTION OF LOCATIO	1	1.		1 1			
West Point Road Reserve.	4.2km West of G	ascade and west	Point Road Intersect	ion.			
					Reserve	No:	
DBCA DISTRICT: Esperance	e	LGA: Espera			manager pre	esent:	
		Moords provided, Zone DegMinSec 🔲 🛛		HODUSED: PS 🖬 D	: Differential G		tap 🔲
GDA94 / MGA94 📓	t/Northing: 63	· -		satellites:		Aap used:	iap 🖬
AGD84 / AMG84				atendes:	n	· =	
Unknown	g / Easting: 29	8188.3				fap scale:	
_	ZONE: 51						
LAND TENURE: Nature reserve	Timber reserve	Private propr	erty 🗖	Rail reserve		Shire road	reserve
National park	State forest	Pastoral les		oad reserve		Other Crown	
Conservation park	Water reserve	U	JCL 🔲 SLK/Pole	to	Spec	ify other:	
EFFORT: Time	spent surveying (n	ninutes):	No. of minute) m ² :		
AREA ASSESSMENT: Edg EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE:	spent surveying (n		No. of minute Estimate		0 m ² :		
EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED:	spent surveying (n Actual	ninutes): Extrapolation	No. of minute Estimate (Refer to) Clonal stems	s spent / 100 Count metho field manual for	o m²:	a of pop (m²)	12
EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N 8TRUCTURE:	spent surveying (n Actual	ninutes): Extrapolation	No. of minute Estimate (Refer to) Clonal stems	s spent / 100 Count metho field manual for	D m ² : dd: list) Are Note	: Pls record cour	nt as numbe
EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N 8TRUCTURE: Alive	spent surveying (n Actual	ninutes): Extrapolation	No. of minute Estimate (Retertor (Retertor Clonal stems) Seedlings:	s spent / 100 Count metho field manual for Totals:	D m ² : dd: list) Are Note (not		nt as numbe database.
EFFORT: Time of POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive Dead	spent surveying (n Actual Plants Mature:	Clumps Juveniles:	No. of minute Estimate (Retertor (Retertor Clonal stems) Seedlings:	s spent / 100 Count metho field manual for Totals:	D m ² : dd: list) Are Note (not	: Pls record cour percentages) for	nt as numbe database.
EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive Dead QUADRAT S PRE SENT: Summary Quad. Totals: Alive REPRODUCTIVE STATE:	spent surveying (n Actual Plants Mature: No.	Clumps Clumps Clumps Size	No. of minute Estimate (Retertor (Retertor Seedilings: Data attached	s spent / 100 Count metho field manual for Totals:	D m ² : ad: Ist) Are Note (not al area of qu Flower	:: Pis record cour percentages) for aditats (m²):	nt as numbe database.
EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive Dead QUADRAT \$ PRE SENT: Summary Quad. Totals: Alive REPRODUCTIVE STATE: Immate	spent surveying (n Actual Plants Mature: No. Clonal ure fuit	Clumps Clumps Juveniles: Size Vegetative Fruit	No. of minute Estimate (Reter to Clonal stems Seedlings: Data attached Flowerbud Dehisced fruit	s spent / 100 Count metho field manual for Totals:	D m ² : bd: ist) Are Note (not al area of qu Flower roentage in fl	:: Pis record cour percentages) for addrats (m ²):	nt as numbe database.
EFFORT: Time s POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive Dead QUADRAT \$ PRE SENT: Summary Quad. Totals: Alive REPRODUCTIVE STATE: Immate	spent surveying (n Actual Plants Mature: No. Clonal Clonal Heathy Heathy	Clumps Clumps Clumps Size	No. of minute Estimate (Retertor (Retertor Seedilings: Data attached	s spent / 100 Count metho field manual for Totals:	D m ² : ad: Ist) Are Note (not al area of qu Flower	:: Pis record cour percentages) for addrats (m ²):	nt as numbe database.
EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive Dead QUADRAT \$ PRE SENT: Summary Quad. Totals: Alive REPRODUCTIVE STATE: Immab CONDITION OF PLANTS:	spent surveying (m Actual Plants Mature: No. Clonal ure fuit Healthy Ity common	Clumps Clumps	No. of minute Estimate (Reter to Clonal stems Seedlings: Data attached Flowerbud Dehisced fruit	s spent / 100 Count metho field manual for Totals:	D m ² : bd: ist) Are Note (not al area of qu Flower Flower Senescent Current	Pis record cour percentages) for addrats (m²): ower: <u>90%</u> Potential	t as numbe database.
EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive Dead QUADRAT \$ PRE SENT: Summary Quad. Totals: Alive REPRODUCTIVE STATE: Immati CONDITION OF PLANT 8: COMMENT: Plant was local THREAT \$ - type, agent and Eg dearing, too frequent fire, weed, de	spent surveying (m Actual Plants Mature: No. Clonal Healthy Healthy supporting inform sease. Refer to field ma	Animutes):	No. of minute Estimate (Refer to 1 Clonal stems) Seedlings: Data attached Elowerbud) Dehisced fruit Poor]	s spent / 100 Count metho field manual for Totals:	D m ² : ad: ist) Are Note (not al area of qu Flower Flower Senescent Current impaot	2: Pis record cour percentages) for addrats (m²): cover: <u>90%</u>	t as numbe database. Potenti Threat
EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive Dead QUADRAT \$ PRE SENT: Summary Quad. Totals: Alive REPRODUCTIVE STATE: Immab CONDITION OF PLANTS: COMMENT: Plant was local THREAT \$ - type, agent and	spent surveying (m Actual Plants Mature: No. Clonal Unation Heathy Heathy supporting Inform sease. Refer to field ma impact. N=NII, L=Low, N	Animutes):	No. of minute Estimate (Reter to Clonal stems Seedlings: Data attached Flowerbud Dehisced fruit Foor ents. Specify agent where ret	s spent / 100 Count metho field manual for Totals:	D m ² : bd: ist) Are Note (not al area of qu Flower Flower Senescent Current	Pis record cour percentages) for addrats (m²): ower: <u>90%</u> Potential	t as numbe database. Potenti Threat
EFFORT: Time : POP'N COUNT ACCURACY: WHAT COUNTED: TOTAL POP'N STRUCTURE: Alive Dead QUADRAT \$ PRE SENT: Summary Quad. Totals: Alive REPRODUCTIVE STATE: Immati CONDITION OF PLANTS: COMMENT: Plant was local THREAT \$ - type, agent and Eg dearing, too frequent fire, weed, de Rate current and potential threat i	spent surveying (m Actual Plants Mature: No. Clonal Unation Heathy Heathy supporting Inform sease. Refer to field ma impact. N=NII, L=Low, N	Animutes):	No. of minute Estimate (Reter to Clonal stems Seedlings: Data attached Flowerbud Dehisced fruit Foor ents. Specify agent where ret	s spent / 100 Count metho field manual for Totals:	D m ² : ad: ist) Are Note (not al area of qu Flower Flower Senescent Current impaot	2: Pis record cour percentages) for addrats (m²): cover: <u>90%</u>	t as numbe database Potenti Threat Onset
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Noise Laternice 0-10% Clan Ventors Permanently Outrop Innestone 0-30% Light clay Grey Innestone 0-10% Slope Linestone 0-30% Light clay Grey Tidal Press Quartz 50-100% Peat Black Tidal Open depression Specific Landform Element: Peat Black Tidal Vest Water depression Specific Landform Element: Peat Innudated Tidal VESTATION 1 Eucolyptus pleurocarpa over mixed heath. Innudated Innudated <td< td=""><td>Hill E</td><td>Dolerite</td><td>gravel, quartz helds)</td><td>Sandy loam 🔲</td><td>Brown 🗖</td><td></td></td<>	Hill E	Dolerite	gravel, quartz helds)	Sandy loam 🔲	Brown 🗖	
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VEGETATION LASSIFICATION LASSIFICATION LASSIFICATION L L L L L L L L L L L L L	CONDITION OF SOIL:		<u> </u>	Waterlogged 🗖	inundated 🔲	
CLASSIFICATION::						
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SPECIES: Styphelia IIssanthoides, Beaufortia schauerii, Leptospermum, Beyeria sulcata, Verticordia sp., Other (non-dominant) specifies Micromyrtus imbricata, Leucopogon sp. Newdegate, Stylidium sp., Lomandra sp., Cryptandra sp., Present coord up to four of the most representative vegatation layers (with up to three dominant species in each layer). Structural Formations should blow 2009 Austretion Set and Law 1999 Mediato Set and Law 1999 Mediators (Law 1999 Mediators). CONDITION OF HABITAT: Frist Interest Terms Season/Month: Year: File Intensity: High Medium Law 1990 Medium 1990 Medium Law 1990 Medium 1990 Medium Law 1990 Medium Law 1990 Medium 1990 M	(M.tetragona)	4.				
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Land Survey Reld Handbook guidelines refer to field manual for further information and structural formation table. COOMTENT: FIRE HISTORY: Last Fire: Season/Month: Year: Fire Intensity: High Medium Low No signs of fire FENCING: Not required Present Replace / repair Replace / repair Quantity 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.) FLORA AUTHORI SATION / LICENCE NO: FT61000787, FT61000788_ Note f only observing plants ().e. no specimens or plant material is taken) then reathorisation/leanes is required. For further information and log integration and log integrations are differentiated locates and Wildle Licensing pages on DBCA's website. Ary actors carefold under autorisation/leanes should be recorded above in the CTHER COMMENTS section. SPECIMEN: Collectors No: WA Herb. Regional Herb. District Herb. Other: COPY SENT Regional Office District Office Other: COPY SENT Regional Office District Office Rote Other: COPY SENT Regional Office District Office Rote: Environmental Officer Signed: Date: 03/10/2023	There are a second as the form of the			at an action in a such laws of 174	and and Property and the difference	
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OTHER COMMENT S: (Please include recommended management actions and/or implemented actions - include date. Also include details of additional data available, and how to locate it.) FLORA AUTHORISATION / LICENCE NO:						

Locked Bag 104, BENTLEY DELIVERY CENTRE WA 6983 OR email to: flora.data@dbca.wa.gov.au RECORDS: Please forward to Flora Administrative Officer, Species and Communities Program. Record entered by:_________ Sheet No.:______ Record Entered In Database D

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