

Hitachi Zosen
INOVA



**CONSERVATION SIGNIFICANT
FLORA SEARCHES**

APPENDIX

12

APPENDIX 12: Conservation Significant Flora Searches



Department of
Environment and Conservation

Our environment, our future



Your Ref: **NEC2011-002**
Our Ref: **09-0212FL**
Enquiries: Jessica Donaldson
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Aurora Environmental
2A Nakina Street
Albany WA 6330

Attention: Melanie Price

Dear Melanie Price,

REQUEST FOR RARE FLORA INFORMATION

I refer to your request of 02 February 2012 for Threatened Flora information in the East Rockingham area. The search was conducted within the area of the coordinates you submitted with an additional 10km buffer area.

A search was undertaken for this area of **(1)** the Department's *Threatened (Declared Rare) Flora* database (for results, *if any*, see "DEFL" – coordinates are GDA94), **(2)** the *Western Australian Herbarium Specimen* database for priority species opportunistically collected in the area of interest (for results, *if any*, see "WAHERB"- coordinates are GDA94 – see condition number 9 in the attached 'Conditions in Respect of Supply' and **(3)**, the Department's *Declared Rare and Priority Flora List* [this list is searched using 'place names'. This list, which may also be used as a species target list, contains species that are declared rare (Conservation Code R or X for those presumed to be extinct), poorly known (Conservation Codes 1, 2 or 3), or require monitoring (Conservation Code 4) – for results, *if any*, see "DP List"]. The results are attached electronically to this email.

Attached also are the conditions under which this information has been supplied. Your attention is specifically drawn to the seventh point, which refers to the requirement to undertake field investigations for the accurate determination of rare flora occurrence at a site. *The information supplied should be regarded as an indication only of the rare flora that may be present and may be used as a target list in any surveys undertaken.*

The information provided does not preclude you from obtaining and complying with, where necessary, land clearing approvals from other agencies.

An invoice for \$300 (plus GST) to supply this information will be forwarded.

It would be appreciated if any populations of rare flora you encounter in the area could be reported to this Department to ensure their ongoing management.

If you require any further details, or wish to discuss rare flora management, please contact Dr Ken Atkins, Manager, Species and Communities Branch, on (08) 9334 0455.

Yours faithfully

Jessica Donaldson

.....
for Keiran McNamara
DIRECTOR GENERAL

7 February 2012

Species and Communities Branch

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DEPARTMENT OF ENVIRONMENT AND CONSERVATION

RARE FLORA INFORMATION

CONDITIONS IN RESPECT OF SUPPLY OF INFORMATION

1. All requests for data to be made in writing to the Director General, Department of Environment and Conservation, Attention: Threatened Flora Database Officer, Species and Communities Branch.
2. The data supplied may not be supplied to other organisations, nor be used for any purpose other than for the project for which they have been provided, without the prior written consent of the Director General, Department of Environment and Conservation.
3. Specific locality information for Declared Rare Flora is regarded as confidential, and should be treated as such by receiving organisations. Specific locality information for DRF may not be used in public reports without the written permission of the Director General, Department of Environment and Conservation. Publicly available reports may only show generalised locations or, where necessary, show specific locations without identifying species. The Department is to be contacted for guidance on the presentation of rare flora information.
4. Note that the Department of Environment and Conservation respects the privacy of private landowners who may have rare flora on their property. Rare flora locations identified in the data as being on private property should be treated in confidence, and contact with property owners made through the Department of Environment and Conservation.
5. Receiving organisations should note that while every effort has been made to prevent errors and omissions in the data provided, they may be present. The Department of Environment and Conservation accepts no responsibility for this.
6. Receiving organisations must also recognise that the database is subject to continual updating and amendment, and such considerations should be taken into account by the user.
7. **It should be noted that the supplied data do not necessarily represent a comprehensive listing of the rare flora of the area in question. Its comprehensiveness is dependant on the amount of survey carried out within the specified area. The receiving organisation should employ a botanist, if required, to undertake a survey of the area under consideration.**
8. Acknowledgment of the Department of Environment and Conservation as source of the data is to be made in any published material. The unique reference number that is given upon the request for information should be quoted. Copies of all such publications are to be forwarded to the Department of Environment and Conservation, Attention: The Manager, Species and Communities Branch.
9. The development of the PERTH Herbarium database was not originally intended for electronic mapping (eg. GIS ArcView). The latitude and longitude coordinates for each entry are not verified prior to being databased. It is only in recent times that collections have been submitted to PERTH with GPS recorded in latitude and longitude coordinates. Therefore, be aware when using this data in ArcView that some records may not plot to the locality description given with each collection.

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DECLARED RARE AND PRIORITY FLORA LIST

CONSERVATION CODES

for Western Australian taxa

T: **Threatened Flora** (Declared Rare Flora - Extant)
Schedule 1 under the *Wildlife Conservation Act 1950* Rare Flora
Notice

Taxa which have been adequately searched for and are deemed to be in the wild either rare, in danger of extinction, or otherwise in need of special protection, and have been gazetted as such.

X: **Presumed Extinct Flora** (Declared Rare Flora – Extinct)
Schedule 2 under the *Wildlife Conservation Act 1950* Rare Flora
Notice

Taxa which have been adequately searched for and there is no reasonable doubt that the last individual has died, and have been gazetted as such.

Threatened Flora (Schedule 1) are further ranked by the Department according to their level of threat using IUCN Red List criteria:

CR: **Critically Endangered** - considered to be facing an extremely high risk of extinction in the wild.

EN: **Endangered** –considered to be facing a very high risk of extinction in the wild.

VU: **Vulnerable** - considered to be facing a high risk of extinction in the wild.

A list of the current rankings can be downloaded from DEC's [Listing of species and ecological communities](http://www.dec.wa.gov.au/content/view/full/852/2010/) webpage at <http://www.dec.wa.gov.au/content/view/852/2010/>

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Possibly threatened species that have not been adequately surveyed to be listed as Threatened are added to the Priority Flora List under Priorities 1, 2 or 3. These three categories are ranked in order of priority for survey and evaluation of conservation status so that consideration can be given to their declaration as threatened flora. Species that are adequately known, are rare but not threatened, or meet criteria for Near Threatened, or that have been recently removed from the threatened list for other than taxonomic reasons, are placed in Priority 4. These species require regular monitoring. Conservation Dependent species are placed in Priority 5.

1: Priority One: Poorly-known species

Species that are known from one or a few collections or sight records (generally less than five), all on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, Shire, Westrail and Main Roads WA road, gravel and soil reserves, and active mineral leases and under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes.

2: Priority Two: Poorly-known species

Species that are known from one or a few collections or sight records, some of which are on lands not under imminent threat of habitat destruction or degradation, e.g. national parks, conservation parks, nature reserves, State forest, vacant Crown land, water reserves, etc. Species may be included if they are comparatively well known from one or more localities but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes.

3: Priority Three: Poorly-known species

Species that are known from collections or sight records from several localities not under imminent threat, or from few but widespread localities with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat. Species may be included if they are comparatively well known from several localities but do not meet adequacy of survey requirements and known threatening processes exist that could affect them.

4: Priority Four: Rare, Near Threatened and other species in need of monitoring

(a) Rare. Species that are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change. These species are usually represented on conservation lands.

(b) Near Threatened. Species that are considered to have been adequately surveyed and that do not qualify for Conservation Dependent, but that are close to qualifying for Vulnerable.

(c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

5: Priority Five: Conservation Dependent species

Species that are not threatened but are subject to a specific conservation program, the cessation of which would result in the species becoming threatened within five years.

Recommendations for additions, deletions or changes to the Declared Rare and Priority Flora List should be forwarded to the Flora Administration Officer or Senior Botanist Species and Communities Branch, DEC.

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ABBREVIATIONS USED IN THREATENED FLORA DATABASE PRINTOUTS

VESTING

AAP Aboriginal Planning Authority
 AGR Chief Executive, Dep. of Agriculture
 ALT Aboriginal Land Trust
 APB Agricultural Protection Board of WA
 BGP Botanical Gardens & Parks Authority
 BSA Boy Scouts Association
 CC Conservation Commission – NPNCA - LFC
 CGT Crown Grant in Trust
 COM Commonwealth of Australia
 CRO Crown Freehold-Govt Ownership
 CRW Crown
 DAG Dep. of Agriculture
 DOW Dep. of Water
 DPI Dep. of Planning & Infrastructure
 EXD Exec Direc CALM
 FES Fire and Emergency Services Aust.
 HOW Dep. of Housing/State Housing Commission
 ILD Industrial Lands Develop. Auth
 LAC LandCorp
 MAG Minister for Agriculture
 MBC Metropolitan Cemeteries Board
 MED Ministry of Education
 MHE Minister for Health
 MIN Minister for Mines
 MPL Ministry for Planning
 MPR Minister for Prisons
 MRD Main Roads WA
 MTR Minister for Transport
 MWA Minister for Water Resources
 MWO Minister for Works
 NAT Natural Trust of Australia WA
 NON Not Vested
 PLB Pastoral Lands Board
 PRI Private/Freehold
 RAI Public Transport Authority
 REL Religious Organisation
 SEC Synergy (ex Western Power)
 SHI Shire
 SPC State Planning Commission
 SWA State of Western Australia
 TEL Telstra
 UNK Unknown
 WAT Water Corporation
 WEL Minister Community Welfare
 WRC Water & Rivers Commission
 XPL Ex-Pastoral Lease

PURPOSES

ABR Aboriginal Reserve
 ACC Access Track
 AER Aerodrome
 AIR Airport
 ARS Agricultural Research Station
 BAP Baptist Union of WA
 CAM Camping
 CAR Caravan park
 CEM Cemetery
 CFA Conservation of Fauna
 CFF Conservation Of Flora & Fauna
 CFL Conservation of Flora
 CHU Church
 CPK Car Park
 CMN Communications
 COM Common

CON Conservation Park
 DEF Defence
 DRA Drain
 EDE Educational Endowment
 EDU Educational purposes UWA
 ENE Enjoyment of Natural Environ.
 EXC Excepted from sale
 EXL Exploration Lease
 EXP Experimental Farm
 FIR Firing Range
 FOR State Forest
 GE General Lease
 GHA Grain Handling
 GOL Golf
 GRA Gravel Pit
 GVT Government Requirements
 HAR Harbour Purposes
 HEP Heritage Purposes
 HER Heritage trail
 HOS Hospital
 KEN Kennels
 LPR Landscape Protection
 MIN Mining lease
 MUN Municipal Purposes
 NPK National Park
 NRE Nature Reserve
 OTH Other
 PAR Parkland (& Recreation)
 PAS Pastoral lease
 PFF Protection of Flora & Fauna
 PFL Protection of Flora
 PIC Picnic ground
 PLA Plantation
 POS Public Open Space
 PRS Prison site
 PUR Purchase Lease
 PUT Public Utility
 QUA Quarry
 RAD Radio Station
 RAC Racecourse
 REC Recreation
 REH Rehabilitation/Re-establish Native Plants
 RRE Railway Reserve
 RUB Rubbish
 SAN Sand
 SCH School-site
 SET Settlers requirements
 SHI Shire Requirements
 SHO Showgrounds
 SNN Sanitary
 SOI Soil Conservation
 STO Stopping place
 TIM Timber
 TOU Tourism
 TOW Town-site
 TRA Training Ground
 TRI Trig station
 UCL Unallocated Crown Land
 UNK Unknown
 VER Road Verge
 VPF Vermin Proof Fence
 WAT Water
 WLS Wildlife Sanctuary
 WOO Firewood

**DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DECLARED RARE AND PRIORITY FLORA LIST
16 September 2010**

SPECIES / TAXON	CONS CODE	DEC REGION	DISTRIBUTION	FLOWER PERIOD
Boronia juncea subsp. juncea	1	SR,SW	Myalup, Wellard	Apr
Cyathochaeta teretifolia	3	SW,WA	Whiteman Park, Lake Gnangara, Ellenbrook, Muchea, Denbarker, Yelverton, Wellard, Mundijong	Dec
Diuris micrantha	T	SW,SR	Medina, Yarloop, Yunderup, Manjimup, Bowelling, Meelon, Bertram	Aug-Oct
Dodonaea hackettiana	4	SW	Wattleup, Thompson Lake, Kings Park, Jandakot, Bibra Lake-The Spectacles, Gingin, Peron, Baldivis, Beeliar, Baldivis, Harry Waring Marsupial Reserve	Jul-Oct
Schoenus capillifolius	3	SR,SW,WB	Upper Swan, Kenwick, Waterloo, Beauford River, Beverley, Goomalling, Carousel Swamp, Pearce, Waroona, Karnup, Baldivis	Sep-Nov
Sphaerolobium calcicola	3	SW,SC	Yalgorup, Yanchep, Safety Bay, Myalup, Denmark	Jun/Sep- Nov
Stylidium ireneae	4	SW,SR	Waroona, Lane Poole, Serpentine Dam, North Dandalup, Augusta, Kwinana	Oct-Nov
Thelymitra variegata	3	SW,WB,SC, SR,WA	Baldivis, Capel, Albany, Hyden, Mt Lindesay	Aug-Sep

SPECIES	CONSCODE	SITE	VEGETATION	LOCALITY
<i>Cyathochaeta teretifolia</i>	3	Black peat.	<i>Melaleuca preissiana</i> , <i>Eucalyptus rudis</i> subsp. <i>rudis</i> , <i>Pteridium esculentum</i>	Lot 100, Treeby Rd, Anketell
<i>Diuris micrantha</i>	T			Medina
<i>Diuris micrantha</i>	T	Swamp. Black peaty soil.	<i>Miscellaneous rushes and sedges.</i>	Mandogolup, Johnsons Road, Darling District
<i>hackettiana</i>	4	Level, but disturbed sand.		The Spectacles, near Medina
<i>Dodonaea hackettiana</i>	4	Dune, grey sand.	<i>Acacia rostelifera</i> tall shrubland over <i>Melaleuca systema</i> .	Woodman Point Nature Reserve, Coogee
<i>Dodonaea hackettiana</i>	4	Plain. Reserve. Lake upland. Beeliar Regional Park. Grey dry sand. Soil disturbed 20 years ago.	<i>Tall trees with Eucalyptus rudis and paperbarks.</i>	About 40 m S of Osprey Drive and just E of the drain going under Osprey Drive (which is W of Parkes Road); Yangebup
<i>Jacksonia sericea</i>	4			Bushland area in pasture N of Madora Road. c. 1 km E of Fremantle Road
<i>Sphaerolobium calcicola</i>	3	Tall dunes, grey-white sand over white sand.	<i>Low open heath of Jacksonia/Olearia axillaris and Acacia lasiocarpa.</i>	Lake Walyunup, Rockingham
<i>Stylidium ireneae</i>	4			Kwinana
<i>Verticordia plumosa</i> var. <i>ananeotes</i>	T			Cockburn Sound, Serpentine District