

**GOLDFIELDS THREATENED FLORA RECOVERY
TEAM**

2004 ANNUAL REPORT

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for the Goldfields Threatened Flora Recovery Team

**Department of Conservation and Land Management
Kalgoorlie 6430**

SUMMARY

Updated Interim Recovery Plans (IRPs) were written for *Eremophila virens* and *Myriophyllum lapidicola* in 2004. A full Recovery Plan (RP) was written for *Pityrodia scabra* over ten years ago and is due for revision in 2005, although this species is no longer recognised within this region. A full Recovery Plan (RP) is currently being written for *Tetratheca paynterae* subsp. *paynterae* ms by Portman Iron Ore Ltd (with CALM, Western Botanical and the Goldfields Threatened Flora Recovery Team) as part of a Ministerial condition for the Koolyanobbing Expansion Project.

Recovery actions have been undertaken for *Eremophila virens*, *Pityrodia* sp. Yilgarn (formerly *scabra*) and *Tetratheca paynterae* subsp. *paynterae* ms in 2004. These actions included monitoring and survey (*E. virens* & *P. scabra*) and survey, population demographics, genetic studies, seed collection, trial translocation and propagation trials (*T. paynterae*).

2004 REPORT

The Goldfields Region has no listed TECs but does have the following threatened flora species:

	Species	EPBC Listing	IRP or RP
1	<i>Conospermum toddii</i>	Endangered	-
2	<i>Eremophila virens</i>	Endangered	IRP
3	<i>Eucalyptus articulata</i>	Vulnerable	-
4	<i>Gastrolobium graniticum</i>	Endangered	-
5	<i>Myriophyllum lapidicola</i>	Endangered	IRP
6	<i>Pityrodia scabra</i> **	Endangered	IRP
7	<i>Tetradlea aphylla</i>	Vulnerable	-
8	<i>Tetradlea harperi</i>	Vulnerable	-
9	<i>Tetradlea paynterae</i> subsp. <i>paynterae</i> ms	Endangered	RP in prep.
10	<i>Thryptomene wittweri</i>	Vulnerable	-

** *P. scabra* now recognised as *P. sp Yilgarn P3*

Goldfields Threatened Flora Recovery Team

The GTFRT was formed in 2004 with meetings in April and October 2004 and the next meeting scheduled for 12th March 2005. The group includes representation from WATSCU, CALM Science, the Botanic Gardens and Parks Authority (BGPA), local pastoralists, industry and special interest groups, consultants, and a member of the Wildflower Society. A sub-group has formed to coordinate writing of the *T. paynterae* subsp. *paynterae* ms Recovery Plan.

Additional members have been added to the recently formed (2004) GTFRT and the full list of members include:

Name	Representing
Brad Barton	CALM Goldfields Region (Chairperson)
Mark Cowan	CALM Goldfields Regional Ecologist
Vanessa Clarke	CALM Goldfields Region (Executive Officer)
Dr Colin Yates	CALM Science
Rebecca Dillon	Technical Assistant – CALM Science
Andrew Brown	WATSCU
Dr David Coates	CALM Science
Sue Patrick	CALM Science
Piers Goodman	Portman Iron Ore Ltd
Dr Penny Butcher	BGPA Research
Dr Sieggy Krauss	BGPA Research
Jim Williams	Kalgoorlie community
Brian Moyle	Wildflower Society
Steve Rusbridge	Mining/Industry
Geoff Cockerton	Special Interest/Consultant
Ray Paynter	Community
Vicki McQuie	Pastoralists- local community

A number of individuals have asked to attend the meetings (Dr Neil Burrows, Ken Atkins, Helena Mills (Dept. Heritage & Environment) or to be sent the meeting minutes (Goldfields Naturalists Club, Kalgoorlie-Boulder Urban Landcare Group)).

IMPLEMENTATION OF INTERIM RECOVERY PLANS JAN 2004 – JANUARY 2005

Eremophila virens

IRP written 2004

Searches were undertaken in Boorabbin National Park in spring 2004 to determine if this species was present within the Goldfields Region. No plants were found and it has been concluded that a misidentification was responsible for the record for this reserve with the only species being found being the similarly green flowered *Eremophila serrulata* and *E. gibbosa*. Therefore no further action is required at this stage.

Myriophyllum lapidicola

IRP written 2004

Goldfields Region has populations 2 and 3. No action undertaken to date but is proposed for August 2005 in the Regional Conservation Officer works program.

Recovery actions	Regional Response
1. Coordinate recovery actions	Recovery actions coordinated through Goldfields TFRT
2. Map critical habitat	
3. Monitor populations	Andrew Brown & Vanessa Clarke to monitor Goldfields Region populations (2 & 3) in August 2005 and to conduct further survey. Regional staff have been checking gnamma holes for this species in other granite outcrops opportunistically during reserve inspections.
4. Conduct further surveys	Further survey will be conducted during August 2005.
5. Collection of seed and cutting material	If any plants are relocated during the August 2005 monitoring/survey, seed and cutting material will be collected for propagation.
6. Research	
7. Removal of dam walls	Does not apply to Goldfields populations.
8. Weed Control if required	Does not apply to Goldfields populations.
9. Feral animal control if required	
10. Promote awareness	WATSCU has produced colour A4 posters to promote awareness of the species, regional staff will distribute where appropriate.
11. Liaise with land Managers	Goldfields populations occur in UCL.
12. Begin Translocation Process	
13. Write a full Recovery Plan	

Pityrodia scabra

RP written 1990

The RP for *P. scabra* is out of date (term of plan June 1995) and is due to be revised this year, but does not currently refer to the Goldfields populations which were unknown at the time of writing the plan.

Recently, differences between the Goldfields and Yilgarn populations and the Wheatbelt type specimen have been noted with the Goldfields populations now recognised as *Pityrodia* sp. Yilgarn and down-graded to P3.

Regional response

Monitoring of all Goldfields Region populations was undertaken during spring 2004 with opportunistic searches made within known habitat with additional small populations recorded. A flowering specimen was collected for all populations where a population was not represented at the WA Herbarium.

The collection of this new material has allowed the WA Herbarium to confirm that the Goldfields populations are not the true *P. scabra* and therefore this species has been attributed the name *P. sp* Yilgarn and is Priority 3.

Liaison with mining companies for annual monitoring is on-going with monitoring reports received for the past five years.

***Tetradthea paynterae* subsp. *paynterae* ms**

RP Writing in progress 2004-2005

The Goldfields Threatened Flora Recovery Team (GTFRT) is coordinating the writing of a full recovery plan for *T. paynterae* subsp. *paynterae* ms with Portman Iron Ore Pty Ltd, CALM and Western Botanical (consultants for Portman). A sub-group of the GTFRT has met with Portman and Western Botanical to progress the initial draft of the recovery plan (RP), which is expected to be finalised this year.

A number of recovery actions to be included in the RP have been approved by CALM and have taken place in 2004 and/or are on-going and include:

- Protection from mining under Ministerial Conditions (pending resolution of recovery plan outcomes);
- Population demographic studies;
- Seed characteristics;
- Genetic studies on all *Tetradthea* species;
- Seed collection;
- Trial translocation; and
- Collection of propagation material (cuttings).

Scientists from CALM and BGPA are working together on a number of research components which will be included into the RP.