



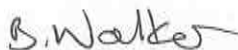
## CLEARING PERMIT

*Granted under section 51E of the Environmental Protection Act 1986*

<b>Purpose Permit number:</b>	CPS 5499/1
<b>Permit Holder:</b>	Shire of Collie
<b>Duration of Permit:</b>	14 March 2013 – 14 March 2018

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

- 1. Purpose for which clearing may be done**  
Clearing for the purpose of controlling Nardoo (*Marsilea mutica*).
- 2. Land on which clearing is to be done**  
Lot 5220 on Plan 240066 (Reserve 34343)  
Lot 5244 on Plan 91183 (Reserve 35105)  
Lot 5245 on Plan 240098 (Reserve 22407)  
Lot 5246 on Plan 240098 (Reserve 22407)  
Preston Road reserve (PIN 11485008)  
Collie River
- 3. Area of Clearing**  
The Permit Holder must not clear more than 4 hectares of native vegetation within the area hatched yellow on attached Plan 5499/1.
- 4. Type of clearing authorised**  
This Permit authorises the Permit Holder to clear native vegetation for the activities described in condition 1 of this Permit to the extent that the Permit Holder has the power to carry out works involving clearing for those activities under the *Local Government Act 1995* or any other written law.
- 5. Application**  
This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation authorised under this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.



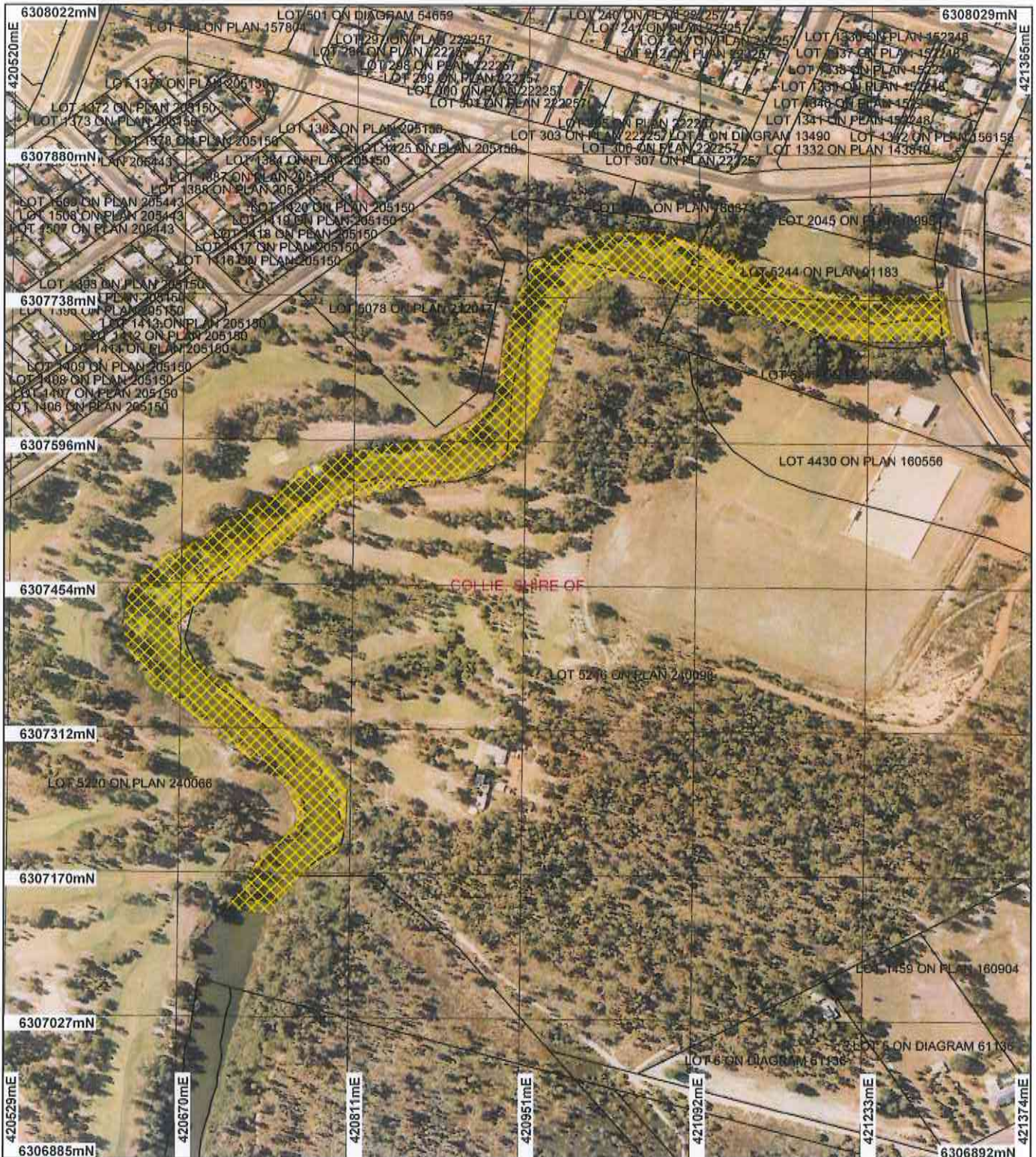
Belinda Walker  
A/MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

*Officer delegated under Section 20  
of the Environmental Protection Act 1986*

14 March 2013



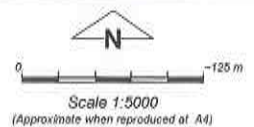
# Plan 5499/1



## LEGEND

- Cadastre
- Local Government Authorities
- Clearing Instruments
- Areas Approved to Clear

Collie 50cm Orthomosaic - Landgate 2006



Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

*B. Walker* Date 18/3/13

Belinda Walker  
Officer with delegated authority under Section 20 of the Environmental Protection Act 1985

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



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Our environment, our future  
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\* Project Data. This data has not been quality assured. Please contact map author for details.





## 1. Application details

### 1.1. Permit application details

Permit application No.: 5499/1  
Permit type: Purpose Permit

### 1.2. Proponent details

Proponent's name: Shire of Collie

### 1.3. Property details

Property: LOT 5220 ON PLAN 240066 (Lot No. 5220 MUNGALUP COLLIE 6225)  
LOT 5246 ON PLAN 240098 (Lot No. 5246 PRESTON COLLIE 6225)  
WATER FEATURE (COLLIE 6225)  
LOT 5244 ON PLAN 91183 (Lot No. 5244 CRAMPTON COLLIE 6225)  
ROAD RESERVE (COLLIE 6225)

Local Government Area: Shire of Collie  
Colloquial name:

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
4		Mechanical Removal	Restoration

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 14 March 2013

## 2. Site Information

### 2.1. Existing environment and information

#### 2.1.1. Description of the native vegetation under application

Vegetation Description	Clearing Description	Vegetation Condition	Comment
The vegetation under application is mapped as: Beard vegetation association 3: Medium jarrah-marri (Shepherd 2009).	The application is for the proposed clearing of 4 hectares within Lot 5A220 on Plan 240066 - Reserve 34343, Lot 5244 on Plan 91183 - Reserve 35105, Lots 5245 and 5246 on Plan 240098 - Reserve 22407, the Collie River and Preston Road reserve.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The vegetation condition was determined through aerial imagery, Collie 50cm Orthomosaic - Landgate 2006.
Hedde vegetation Muju complex: Open woodland of Melaleuca preissiana-Banksia littoralis-Banksia ilicifolia with some Eucalyptus patens on moister sites, s24 Banksia spp. on drier sites of valley floors in the subhumid zone (Hedde et al 1980).	The vegetation under application falls within the Collie River and consists of Marsilea mutica (Nardoo) which has proliferated in the river due to historical management alterations to the flow regime. The application is part of a larger management plan seeking to restore the River.		

## 3. Assessment of application against clearing principles

### Comments

The application is to clear up to 4 hectare of native vegetation for the purpose of restoring a 1.2 kilometre section of the Collie River by removing Marsilea mutica (Nardoo). The applicant has advised that although the application area covers four hectares, the area cleared will be less than this as clearing will only be undertaken in areas where the species is proliferating.

Nardoo is native to Western Australia but has been a problem in the Collie River since approximately 1969

after it was dredged and widened in 1965 due to a flood event in 1964. It is thought that the widening of the river and use of stop boards at Venn Street has created ideal conditions for the Nardoo to thrive.

A site inspection undertaken by the Department of Environment and Conservation (DEC) in 2011, for trials relating to removing Nardoo from the river, found that the species has now flourished in the Collie River around the Collie town site, to a point where control of the plant is required to restore the health and aesthetics of the river (DEC, 2011). Trials were conducted in 2011 to determine the most effective control measures and a management plan (Shire of Collie, 2013) was developed based on these results.

Short term sedimentation and degradation in water quality may occur during the removal of Nardoo, however significant impacts are unlikely and a management plan for the works has been written following extensive planning and consultation. The proposed clearing is not likely to significantly impact any biodiversity or environmental values, cause any appreciable land degradation within the local or regional area. Given the above, the proposed clearing is at variance to principle (f) and is not likely to be at variance to the remaining clearing principles.

#### Methodology

##### References

- DEC (2011)
- Keighery (1994)
- Shire of Collie (2013)

##### GIS databases:

- Hydrography, linear DOW 13/7/06
- Heddle Vegetation Complexes (01/03/1998)
- Pre-European vegetation
- SAC Biodatasets (Accessed March 2013)

### Planning instrument, Native Title, Previous EPA decision or other matter.

#### Comments

The application area is zoned as Parks and Recreation under the Local Town Planning Scheme.

The application area falls within the Wellington Dam Catchment, which is a Public Drinking Water Source Area that does not have an assigned priority classification. The application is also within Zone B of the Wellington Dam Catchment area covered by the Country Areas Water Supply Act (1947). As no deep rooted vegetation will be removed the application is not likely to impact on this catchment area.

The Department of Water (DOW) have advised that they are ready to endorse the proposal and that the Department of Health (DOH) may have concerns relating to the chemicals being used to undertake the clearing and are seeking more information from the Shire. The DOW is seeking to provide a coordinated Government response in conjunction with the DOH. The DOH requires additional information from the Shire before they can complete their assessment (DOW, 2013).

The application area falls within an Aboriginal Site of Significance, and the applicant is advised to contact the Department of Indigenous Affairs in relation to their responsibilities under the Aboriginal Heritage Act 1972.

#### Methodology

##### References

- DOW (2013)

##### GIS databases:

- Aboriginal sites of significance
- Local Town Planning Scheme
- Country Area Water Supply Act (Part IIA) - Clearing Control Catchments
- Public Drinking Water Source Areas

### 4. References

- DEC (2011) Site Inspection Report for Clearing Permit Application CPS 4135/1, Lot Numerous Land Parcels, Collie River, Collie. Site inspection undertaken 27 January 2011. Department of Environment and Conservation, Western Australia (DEC Ref. A367070).
- DOW (2013) Advice for Clearing Permit Application CPS 5499/1, Collie River, Collie. Received 13 March 2013. Department of Water, Western Australia (DEC Ref. A609821).
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Mattiske, E.M. and Havel, J.J. (1998) Vegetation Complexes of the South-west Forest Region of Western Australia. Maps and report prepared as part of the Regional Forest Agreement, Western Australia for the Department of Conservation and Land Management and Environment Australia.

Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.

Shire of Collie (2013) Shire of Collie, Collie River Revitalisation Plan: Weed Removal Management Plan. Shire of Collie 2013 (DEC Ref. A606395).

## 5. Glossary

Term	Meaning
BCS	Biodiversity Coordination Section of DEC
CALM	Department of Conservation and Land Management (now BCS)
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
DEP	Department of Environmental Protection (now DEC)
DoE	Department of Environment
DoIR	Department of Industry and Resources
DRF	Declared Rare Flora
EPP	Environmental Protection Policy
GIS	Geographical Information System
ha	Hectare (10,000 square metres)
TEC	Threatened Ecological Community
WRC	Water and Rivers Commission (now DEC)