



GOVERNMENT OF
WESTERN AUSTRALIA

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 4548/1

File Number: 2011/006788-1

Duration of Permit: From 7 November 2011 to 7 November 2013

PERMIT HOLDER

City of Cockburn

LAND ON WHICH CLEARING IS TO BE DONE

Lot 4719 on Plan 22707 (Reserve 46787), Bibra Lake 6163

Cockburn Sound Location 536 (Reserve 6208), Bibra Lake 6163

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 0.17 hectares of native vegetation within the area cross hatched yellow on attached Plan 4548/1.

CONDITIONS

1. Dieback and weed control

When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds* and *dieback*:

- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
- (b) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (c) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

DEFINITIONS

The following meanings are given to terms used in this Permit:

dieback means the effect of *Phytophthora* species on native vegetation;

dry conditions means when soils (not dust) do not freely adhere to rubber tyres, tracks, vehicle chassis or wheel arches;

fill means material used to increase the ground level, or fill a hollow;

mulch means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation;

weed/s means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the *Agriculture and Related Resources Protection Act 1976*.

Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

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

13 October 2011

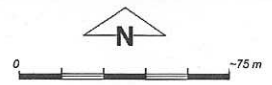
Plan 4548/1



LEGEND

- Clearing Instruments**
-  Areas Approved to Clear
 -  Road Centrelines
 -  Cadastre

Perth Metropolitan Area
Central 20cm Orthomosaic -
Landgate 2007

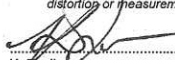


Scale 1:2619

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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

 Date 13/10/11

K. Faulkner
Officer with delegated authority under Section 20 of
the Environmental Protection Act 1986

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



Department of
Environment and Conservation

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1. Application details

1.1. Permit application details

Permit application No.: 4548/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: City of Cockburn

1.3. Property details

Property: LOT 4719 ON PLAN 22707 (Lot No. 4719 PROGRESS BIBRA LAKE 6163)
COCKBURN SOUND LOCATION 536 (BIBRA LAKE 6163)

Local Government Area: City of Cockburn

1.4. Application

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

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 13 October 2011

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
Mapped Beard vegetation association 126 is described as Bare areas; freshwater lakes (Shepherd, 2009)	The application is to clear 0.17ha of native vegetation within Lot 4179 on Plan 22707, and Cockburn Sound Location 536, Bibra Lake, for the purpose of constructing a bird hide and floating boardwalk.	Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994)	The condition of the vegetation was assessed during a Department of Environment and Conservation (2011) site visit.
Hedde vegetation complex Herdsman Complex : Sedgelands and fringing woodland of Eucalyptus rudis (Flooded Gum) - Melaleuca species (Havel et al, 1980).	The area under application consists of Melaleuca teretifolia and revegetation over introduced weed species.		

3. Assessment of application against clearing principles

Comments

The proposal is to clear up to 0.17 hectares of native vegetation within Lot 4179 on Plan 22707 and Cockburn Sound Location 536, Bibra Lake, for the purpose of constructing a boardwalk and bird hide. The boardwalk and bird hide will be used as part of the Cockburn Wetlands Education Centre which raises public awareness on conserving wetlands through activities such as school excursions and planting days.

The vegetation under application consists of revegetation from previous rehabilitation projects conducted by the Cockburn Wetlands Centre. The only native vegetation remaining in the application area is a small stand Melaleuca teretifolia and the understorey consists of introduced weed species.

The application is within Bibra Lake which is categorised as a Resource Enhancement Wetland and also mapped as an Environmental Protection Policy wetland. Bibra Lake wetland is a permanent water body and provides an important drought refuge for waterbirds when other wetlands dry out over summer months. The vegetation within the application area is growing in association with this wetland and is therefore at variance to principle (f).

Twenty threatened and priority fauna species have been recorded near the area under application. The Lined Skink (*Leista lineata*, Priority 3 Wildlife Conservation Act 1950), the Quenda (*Isodon obesulus* subsp. *fusciventer*, Priority 5 Wildlife Conservation Act 1950; Threatened, Environment Protection and Biodiversity Conservation Act 1999) and the Peregrine Falcon (*Falco peregrinus*, Specially Protected) have been recorded within 1km of the application area (DEC 2007-). The vegetation within the applied area is not likely to provide significant habitat for the abovementioned fauna.

The application area lies within Beeliar Regional Park, an area listed on the Register of National Estate and Bush Forever site 244. The disturbance caused by the proposed clearing will increase the likelihood of weeds and die back spreading into these reserves. Weed and dieback management practices will assist in mitigating this risk of weeds spreading into Beeliar Regional Park and Bush Forever site 244.

Given the application includes vegetation associated with a wetland, may contain significant habitat for fauna species, and may have an impact on a nearby conservation area, the application is therefore at variance to (f), may be at variance to (h) and is not likely at variance to the remaining clearing principles.

Methodology Reference:
DEC (2007-)
DEC (2011)

GIS Databases:
- Swan Coastal Plain Central 20cm Orthomosaic - Landgate 2009
- Pre-European Vegetation - DA
- SAC Biodatasets - Accessed September 2011

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

Comments

The application area lies within Bush Forever site 244, North Lake and Bibra Lake in Bibra Lake. The Department of Planning (DPI 2011) advised that the State Strategic Policy has no objections to the clearing of 0.17 hectares and recommends;

- an offset package is prepared and approved by DEC, prior to the clearing of native vegetation, in accordance with Environmental Protection Authority Position Statement Number 9: Environmental Offsets: and
- other than the 0.17 hectares proposed to be cleared, the development including construction of the boardwalk and bird hide, access, drainage and ongoing maintenance shall not result in further disturbance or clearing of native vegetation within Bush Forever site 244.

The assessment undertaken against the clearing principles has determined low environmental impacts and therefore offsets are not required.

Aboriginal Sites of Significance 'Bibra Lake' is located approximately 100m from the application area.

The application area is zoned as Parks and Recreation under the Metropolitan Region Scheme and is not mapped under the Town Planning Scheme.

Methodology References
DPI (2011)

GIS Databases:
- Cadastre
- Town Planning Scheme Zones
- RIWI Act, Surface water areas, Irrigation districts

4. References

- DEC (2007-) NatureMap: Mapping Western Australia's Biodiversity. Department of Environment and Conservation. URL: <http://naturemap.dec.wa.gov.au/> (Accessed 06/09/2011).
- DEC (2011) Site Inspection Report for Clearing Permit Application CPS 4548/1, Lot 4179 Bibra Lake drive, Bibra Lake. Site inspection undertaken 07/09/2011. Department of Environment and Conservation, Western Australia (DEC Ref. A437492).
- DPI (2011) RE: Application to clear native vegetation under the Environmental Protection Act 1986. Department of Planning. DEC ref: A436776
- Hedde, E. M., Loneragan, O. W., and Havel, J. J. (1980) Vegetation Complexes of the Darling System, Western Australia. Department of Conservation and Environment, Atlas of Natural Resources, Darling System, Western Australia.
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Shepherd, D.P. (2009) Adapted from: 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.

5. Glossary

Term	Meaning
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)