



## **CLEARING PERMIT**

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

### **PERMIT DETAILS**

Area Permit Number: 3860/1

File Number: 2010/005539-1

Duration of Permit: From 19 September 2010 to 19 September 2012

### **PERMIT HOLDER**

City of Wanneroo

### **LAND ON WHICH CLEARING IS TO BE DONE**

Hepburn Avenue road reserve, Alexander Heights (PIN 11569723)

### **AUTHORISED ACTIVITY**

The Permit Holder shall not clear more than 0.17 hectares of native vegetation within the area hatched yellow on attached Plan 3860/1.

### **CONDITIONS**

Nil.

A handwritten signature in black ink, appearing to read "Kelly Faulkner", written over a horizontal line.

Kelly Faulkner  
MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

19 August 2010

# Plan 3860/1



## LEGEND

- Road Centrelines
- Cadastre
- Local Government Authorities

- Clearing Instruments**
- Areas Approved to Clear
- Swan Coastal Plain North  
20cm Orthomosaic - Landgate  
2009



0 ————— 50 m

Scale 1:1714

(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 19/8/10  
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.: 3860/1  
Permit type: Area Permit

### 1.2. Proponent details

Proponent's name: City of Wanneroo

### 1.3. Property details

Property: ROAD RESERVE ( LANDSDALE 6065)  
Local Government Area: City of Wanneroo  
Colloquial name: Hepburn Avenue Drainage Basin

### 1.4. Application

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

## 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
Beard Vegetation Association: 6: Medium woodland; tuart and jarrah (Shepherd, 2009)	The vegetation under application is within the verge area between Hepburn Avenue and a suburban road in Alexander Heights. The site is adjacent to areas cleared and developed for residential infrastructure and is in a disturbed condition.	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery, 1994)	Vegetation condition was determined from aerial photography, photographs of the site, species list and other supporting documentation provided with the application (City of Wanneroo, 2010).
Hedde Vegetation Complex: 334; Bassendean Complex - Central and South (Hedde et al., 1980)	The vegetation under application has not been comprehensively surveyed for flora and vegetation, however a site visit conducted by the applicant identified the presence of five native species in low densities; <i>Acacia Cyclops</i> , <i>Acacia saligna</i> , <i>Hakea prostrate</i> , <i>Macrozamia riedlei</i> and <i>Xanthorrhoea presissii</i> (City of Wanneroo, 2010).  Other vegetation includes Australian species such as <i>Grevillea</i> , <i>Casuarina</i> , <i>Banksia</i> that were planted as part of a landscaping project (City of Wanneroo, 2010). Mid storey vegetation occurs in several patches, with the majority of the site open and comprising a ground cover of weeds.		

## 3. Assessment of application against clearing principles

### Comments

The City of Wanneroo proposes to clear up to 0.17ha of native vegetation from within the Hepburn Avenue road reserve in Alexander Heights, in order to construct a drainage basin and vehicle access to cater for the proposed extension of the Hepburn Avenue dual carriageway (City of Wanneroo, 2010). The applicant has advised that the final design for these works will seek to minimise impact on the surrounding natural environment wherever feasible (City of Wanneroo, 2010).

The vegetation under application is adjacent to existing road infrastructure and residential development and has been largely cleared of native vegetation previously. The applied area consists of several patchy areas of remnant vegetation and non native species that were planted as part of a landscaping project in 2005/2006, with large open areas consisting predominantly of weeds (City of Wanneroo, 2010). While a thorough flora and vegetation survey has not been conducted at the site, an inspection conducted by the applicant identified five indigenous species. A vegetation community type could not be adequately established from the species identified (City of Wanneroo, 2010).

The vegetation under application is in completely degraded (Keighery, 1994) condition and is no longer representative of the Beard vegetation association 6 (Shepherd, 2009) or Hedde vegetation complex 334 (Hedde et al., 1980) mapped as occurring within the applied area.

There are several records of conservation flora and fauna within the local area (5km radius). However, due to its small size (0.17ha) and completely degraded (Keighery, 1994) condition, the area under application is not considered to be significant habitat for conservation significant flora and fauna species, or to hold significant biodiversity values for the region.

There are 37 records of the threatened ecological community (TEC) Floristic Community Type 20a (Banksia attenuata woodland over species rich dense shrublands) mapped within the local area (5km radius). The closest is approximately 220m north of the applied area and the vegetation under application is within the buffer area for this TEC. However, considering the completely degraded (Keighery, 1994) condition of the vegetation under application, species list provided by the applicant and photographs of the application area, the vegetation under application is not likely to comprise Floristic Community Type 20a.

The proposal is unlikely to have any significant environmental impacts and is not likely to be at variance to the clearing principles.

#### Methodology

##### References:

City of Wanneroo, 2010

Heddle et al., 1980

Keighery, 1994

Shepherd, 2009

##### GIS Databases:

- ANCA, Wetlands - 26/03/99

- DEC Managed Lands & Waters - DEC 28/10/09

- Evapotranspiration, Area Actual - BOM 30/09/01

- Groundwater Salinity, statewide - DoW 13/07/06

- Heddle Vegetation Complexes - DEP 22/06/95

- Hydrogeographic Catchments, Catchments - DoW 01/06/07

- Hydrogeology, statewide - DoW 13/07/06

- Hydrography, linear DoW 13/7/06

- Matiske Vegetation Complexes - CALM 01/03/98

- Rainfall, Mean Annual - BOM 30/09/01

- Pre-European vegetation - DA 01/01

- RAMSAR, Wetlands - 15/10/09

- SAC Biodatasets - 5/08/10

- Soils, Statewide - 30/11/99

- Swan Coastal Plain North 20cm Orthomosaic - Landgate 2009

- Topographic Contours, Statewide - DOLA 12/09/02

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

##### Comments

No submissions from the public have been received.

The vegetation under application lies wholly within the road reserve, however the majority of this reserve is zoned as 'Rural development' under the City of Wanneroo Planning Scheme No 2 (District Scheme). The City of Wanneroo advised that drainage basins can be within subdivided land (City of Wanneroo, 2010).

The vegetation under application is within the Mirrabooka Groundwater Area proclaimed under the Rights in Water and Irrigation Act 1914 and is within a Priority 3 Public Drinking Water Source Area associated with the Gngangara Underground Water Pollution Control Area. Advice was sought from the Department of Water's Swan-Avon Region (DEC Ref: A323250). This request was returned with no comment (DEC Ref: A324017).

There are no Aboriginal Sites of Significance mapped as occurring within the area under application.

#### Methodology

##### References:

City of Wanneroo, 2010

##### GIS Databases:

- Aboriginal Sites of Significance - DIA 02/10

- Cadastre - Landgate 12/09

- Country Area Water Supply Act (Part IIA) Clearing Control Catchments - DoW 29/06/06

- Environmental Impact Assessments - EPA 08/03/05

- Native Title Claims - LA 2/5/07

- Public Drinking Water Source Areas (PDWSAs) - 07/02/06

- RIWI Act, Groundwater Areas - DoW 13/07/06

- RIWI Act, Irrigation Districts - DoW 13/07/06

- Town Planning Scheme Zones - MFP 31/08/98

#### 4. References

- City of Wanneroo (2010) Clearing permit application - supporting information. City of Wanneroo. DEC Ref: A320362, A324667
- Hedde, E. M., Loneragan, O. W., and Havel, J. J. (1980) Vegetation Complexes of the Darling System, Western Australia. In 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
CALM	Department of Conservation and Land Management (now DEC)
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
DEP	Department of Environmental Protection (now DEC)
DoE	Department of Environment (now DEC)
DoW	Department of Water
DMP	Department of Mines and Petroleum (ex DoIR)
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)