



## CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

### PERMIT DETAILS

Area Number: 1953/2  
File Number: DEC3728  
Duration of Permit: From 21 June 2009 to 21 June 2023

### PERMIT HOLDER

Hennderdin Pty Ltd

### LAND ON WHICH CLEARING IS TO BE DONE

Lot 800 on Deposited Plan 72839, Baldivis

### AUTHORISED ACTIVITY

The Permit Holder must not clear more than 11.6 hectares of native vegetation, within the area hatched yellow on attached Plan 1953/2.

### CONDITIONS

#### 1. Type of clearing authorised

The Permit Holder shall not clear native vegetation unless extraction activities are enacted within six months of the clearing being undertaken.

#### 2. Period in which clearing is authorised

The Permit Holder shall not clear any native vegetation after 21 June 2018.

#### 3. 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) shall not move soils in wet conditions;
- (c) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (d) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

#### 4. Fauna Management

- (a) Prior to clearing pursuant to this Permit during the months of September through to February the areas shall be inspected by a *fauna specialist* who shall identify the presence of *Merops ornatus* (Rainbow Bee-eater) and their nesting burrows.
- (b) The permit holder shall not clear during the months of September through to February if *Merops Ornatus* (Rainbow Bee-eater) or their nesting burrows are identified under condition 4(a).
- (c) Prior to undertaking any clearing authorised under this Permit, the area shall be inspected by a *fauna specialist* who shall identify habitat/*habitat tree(s)* suitable to be utilised by fauna species listed below:
  - (i) Carnaby's Black Cockatoo (*Calyptorhynchus latirostris*)
  - (ii) Baudin's Black Cockatoo (*Calyptorhynchus baudinii*)
  - (iii) Western False Pipistrelle (*Falsistrellus mackenziei*)
  - (iv) Honey Possum (*Tarsidpes rostratus*)
  - (v) Brush Tailed Possum (*Trichosurus vulpecula*)

- (d) Prior to clearing any habitat/*habitat tree(s)* identified by condition 4(c) shall be inspected by a *fauna clearing person* for the presence of fauna listed in condition 4(c).
- (e) Prior to clearing, the Permit Holder shall ensure that any fauna identified in condition 4(d) shall be removed and relocated by a *fauna clearing person*, in accordance with a licence issued by the Department.

## 5. Retain vegetative material and topsoil, revegetation and rehabilitation

The Permit Holder shall:

- (a) retain the vegetative material and topsoil removed by clearing authorised under this Permit and stockpile the vegetative material and topsoil in an area that has already been cleared.
- (b) within 3 months following the completion of extractive activities, *revegetate* and *rehabilitate* the area(s) that are no longer required for the purpose for which they were cleared under this Permit by:
  - (i) re-shaping the surface of the land so that it is consistent with the surrounding 5 metres of uncleared land; and
  - (ii) ripping the ground on the contour to remove soil compaction; and
  - (iii) ripping the pit floor and contour batters within the extraction site; and
  - (iv) laying the vegetative material and topsoil retained under condition 5(a) on the cleared area(s) that are no longer required for the purpose for which they were cleared under this Permit; and
- (c) within 24 months of undertaking *revegetation* and *rehabilitation* in accordance with condition 5(b) of this Permit:
  - (i) engage an *environmental specialist* to determine the species composition, structure and density of the area *revegetated* and *rehabilitated*; and
  - (ii) where, in the opinion of an *environmental specialist*, the composition structure and density determined under condition 5(c)(i) of this Permit will not result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, *revegetate* the area by deliberately *planting* and/or *direct seeding* native vegetation that will result in a similar species composition, structure and density of native vegetation to pre-clearing vegetation types in that area and ensuring only *local provenance* seeds and propagating material are used.
- (d) where additional *planting* or *direct seeding* of native vegetation is undertaken in accordance with condition 5(c)(ii) of this permit, the Permit Holder shall repeat condition 5(c)(i) and 5(c)(ii) within 24 months of undertaking the additional *planting* or *direct seeding* of native vegetation.
- (e) where a determination by an *environmental specialist* that the composition, structure and density within areas *revegetated* and *rehabilitated* will result in a similar species composition, structure and density to that of pre-clearing vegetation types in that area, as determined in condition 5(c)(i) and (ii) of this permit, that determination shall be submitted for the CEO's consideration. If the CEO does not agree with the determination made under condition 5(c)(ii), the CEO may require the Permit Holder to undertake additional *planting* and *direct seeding* in accordance with the requirements under condition 5(c)(ii).

## 6. Records must be kept

The Permit Holder must maintain the following records for activities done pursuant to this Permit:

- (a) In relation to the clearing of native vegetation authorised under this Permit:
  - (i) the species composition, structure and density of the cleared area;
  - (ii) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
  - (iii) the date that the area was cleared; and
  - (iv) the size of the area cleared (in hectares).

- (b) In relation to fauna management pursuant to condition 4 of this Permit:
  - (i) the number of species identified, and that have been observed utilising the area;
  - (ii) the species of fauna reasonably likely to utilise, or that have been observed utilising the habitat/*habitat tree(s)*;
  - (iii) the location and date where relocated fauna was released, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings.
- (c) In relation to the *revegetation* and *rehabilitation* of areas pursuant to condition 5 of this Permit:
  - (i) the location of any areas *revegetated* and *rehabilitated*, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings or decimal degrees;
  - (ii) a description of the *revegetation* and *rehabilitation* activities undertaken;
  - (iii) the size of the area *revegetated* and *rehabilitated* (in hectares);
  - (iv) the species composition, structure and density of *revegetation* and *rehabilitation*, and
  - (v) a copy of the environmental specialist's report.

## 7. Reporting

- (a) The Permit Holder must provide to the CEO on or before 30 June of each year, a written report:
  - (i) of records required under condition 6 of this Permit; and
  - (ii) concerning activities done by the Permit Holder under this Permit between 1 January to 31 December of the preceding year.
- (b) If no clearing authorised under this Permit was undertaken between 1 January to 31 December of the preceding year, a written report confirming that no clearing under this permit has been carried out, must be provided to the CEO on or before 30 June of each year.
- (c) Prior to 21 March 2023, the Permit Holder must provide to the CEO a written report of records required under condition 6 of this Permit where these records have not already been provided under condition 7(a) of this Permit.

## Definitions

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

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

***direct seeding*** means a method of re-establishing vegetation through the establishment of a seed bed and the introduction of seeds of the desired plant species;

***environmental specialist*** means a person who is engaged by the Permit Holder for the purpose of providing environmental advice, who holds a tertiary qualification in environmental science or equivalent, and has experience relevant to the type of environmental advice that an environmental specialist is required to provide under this Permit;

***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;

***fauna clearing person*** means a person who has obtained a licence from the Department, issued pursuant to the *Wildlife Conservation Regulations 1970* authorising them to take fauna;

***fauna specialist*** means a person with training and specific work experience in fauna identification or faunal assemblage surveys of Western Australian fauna;

**habitat tree(s)** means trees that have a diameter, at average adult human chest height, of greater than 70cm, healthy but with dead limbs and broken crowns that are likely to contain hollows and roosts suitable for native fauna, or where these are not present then healthy but with the potential to contain hollows and roosts;

**local provenance** means native vegetation seeds and propagating material from natural sources within 10-40 kilometres of the area cleared;

**planting** means the re-establishment of vegetation by creating favourable soil conditions and planting seedlings of the desired species;

**regenerate/ed/ion** means re-establishment of vegetation from in situ seed banks and propagating material (such as lignotubers, bulbs, rhizomes) contained either within the topsoil or seed-bearing mulch;

**rehabilitate/ed/ion** means actively managing an area containing native vegetation in order to improve the ecological function of that area;

**revegetate/ed/ion** means the re-establishment of a cover of *local provenance* native vegetation in an area using methods such as natural *regeneration*, *direct seeding* and/or *planting*, so that the species composition, structure and density is similar to pre-clearing vegetation types in that area.

**weed/s** means any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in the Department of Environment and Conservation Regional Weed Assessments, regardless of ranking; or
- (c) not indigenous to the area concerned.



M Warnock  
MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

23 May 2013

# Plan 1953/2



## LEGEND

- Road Controlines
- Coastline
- Local Government Authorities
- Clearing Instruments
- Areas Approved to Clear

Perth Metropolitan Central  
15cm Orthomosaic - Landgate  
2011



0 200 m

Scale 1:1104

(Approximate when reproduced at Letter)

Geocentric Datum Australia 1994

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

*M Warnock* Date *23/5/13*  
M Warnock

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.: 1953/2  
Permit type: Area Permit

### 1.2. Proponent details

Proponent's name: Hennderdin Pty Ltd

### 1.3. Property details

Property: LOT 800 ON PLAN 72839 (BALDIVIS 6171)  
Local Government Area: City of Rockingham

### 1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
11.6		Mechanical Removal	Extractive Industry

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 23 May 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
Beard Vegetation Association 998 is described as Medium woodland consisting of Tuart. (Shepherd et al, 2001)	The amended application is to clear 11.6 hectares for the purpose of sand and limestone extraction.	Good: Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery 1994)	The condition of the vegetation was determined via a site visit conducted by DEC officers (2009), a fauna survey undertaken by Western Wildlife (2007) and a Flora and Vegetation survey undertaken by Landform Research in November 2006.
Hedde Vegetation Cottesloe Complex - Central and South consists of mosaic of woodland of <i>E. gomphocephala</i> and open forest of <i>E. Gomphocephala</i> , <i>E. Marginata</i> , <i>C. Calophylla</i> with closed heath on Limestone outcrops (Hedde et al, 1980).	The vegetation under application ranges from <i>Dryandra sessilis</i> thicket and <i>Acacia rostelifera</i> thicket in the north-western portion of the application area to a Tuart and Marri mixed woodland in the south western portion (Landform Research, 2006).	To	
Hedde Vegetation Karrakatta Complex - Central and South consist of predominantly open forest of <i>E. gomphocephala</i> - <i>E. marginata</i> - <i>C. calophylla</i> and woodland of <i>E. marginata</i> - <i>Banksia</i> species (Hedde et al, 1980).	The eastern portion of the application area comprises Tuart woodland in the north with <i>Eucalyptus gomphocephala</i> , and scattered <i>Eucalyptus marginata</i> over an understorey of <i>Banksia attenuata</i> , <i>Acacia pulchella</i> , <i>Dryandra sessilis</i> , <i>Conostylis aculeate</i> and <i>Macrozamia riedlei</i> . The south eastern portion of the application area is largely comprised of Tuart and Marri mixed woodland, with occasional pockets of <i>Dryandra sessilis</i> thicket (Landform Research, 2006).	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	From viewing the aerial imagery it appears that the vegetation has retained the condition that was previously determined in the abovementioned flora survey, fauna survey and site inspection.

## 3. Assessment of application against clearing principles

### Comments

The proponent has applied to extend the permit duration until July 2018, and change the area of proposed clearing, reducing the total clearing size to 11.6 hectares. Given that area of clearing will be reduced by 7.7 hectares, no additional significant environmental impacts are likely to occur and the assessment against the clearing principles can be found in the Clearing Permit Decision Report CPS 1953/1.

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

### Comments

This amendment has been made to reduce the size of clearing to 11.6 hectares and extend the permit duration until July 2018. The reduction in size is due to the proposed Mundijong Road extension severing the northern portion of the area granted under CPS 1953/1. As a result of the proposed road extension the vesting of Lots 290 and 291 on Deposited Plan 202704 have changed. The clearing now falls within Lot 800 on Deposited Plan 72839.

The proposed clearing falls within the Stakehill groundwater area which is an area proclaimed under the Rights in Water and Irrigation Act 1914. The Department of Water (DoW) were notified of the proposed clearing and advised that any groundwater abstraction in this area is subject to licensing (DoW, 2013).

No submissions from the public have been received for the proposed amendment.

The proponent obtained Planning Approval from the City of Rockingham in December 2008. This Planning Approval is due to expire in December 2013 and the City has advised that further Planning Approval will be required if the proponent wishes to undertake clearing and excavation works beyond this expiry date (City of Rockingham, 2013).

The proponent holds an Extractive Industry Licence which is valid until June 2017 (City of Rockingham, 2013).

The proponent referred the initial proposed works to the Department of Sustainability, Environment, Water, Population and Communities (SEWPaC). Due to the proposed Mundijong Road extension and reduced area of proposed clearing, the proponent has since withdrawn this referral and submitted a new proposal to SEWPaC. A decision on the revised proposal is yet to be determined by SEWPaC (WA Limestone, 2013).

**Methodology**    **References:**  
-City of Rockingham (2013)  
-DoW (2013)  
-WA Limestone (2013)

#### 4. References

- City of Rockingham (2013) Additional Information for Clearing Application CPS 1953/2, Lot 800 on Deposited Plan 72839, Baldivis. DEC Ref: A621719
- DEC (2009) Site Inspection Report for Clearing Permit Application CPS 1953/1. Site inspection undertaken 10/09/2013. Department of Environment and Conservation, Western Australia (TRIM ref DOC36393).
- Department of Water (2013) Rights in Water and Irrigation Act 1914 advice for CPS 1953/2. DEC Ref: A623908
- 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.
- Landform Research (2006) Flora Vegetation Survey, Lots 290 and 291 Kerosene Lane, Baldivis. DEC TRIM ref. DOC33578.
- 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.
- WA Limestone (2013) Additional Information for Clearing Permit Application CPS 1953/2, Lot 800 on Deposited Plan 72839, Baldivis. DEC Ref: A631956
- Western Wildlife (2007) Fauna Assessment Report, Lots 290 and 291 Kerosene Lane, Baldivis. DEC TRIM ref. DOC28165.

#### 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)