



## CLEARING PERMIT

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

<b>Purpose Permit number:</b>	CPS 5465/1
<b>Permit Holder:</b>	Waste Stream Management Pty Ltd
<b>Duration of Permit:</b>	10 August 2013 – 10 August 2023

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

### PART I – CLEARING AUTHORISED

**1. Purpose for which clearing may be done**

Clearing for the purpose of constructing an access road and for quarrying sand and limestone.

**2. Land on which clearing is to be done**

Lot 304 on Diagram 72808, Kwinana Beach.

**3. Area of Clearing**

The Permit Holder must not clear more than 1 hectare of native vegetation within the area shaded yellow on attached Plan 5465/1.

**4. Period in which clearing is authorised**

The Permit Holder shall not clear any native vegetation after 10 August 2018.

**5. Application**

This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

**6. Compliance with Assessment Sequence and Management Procedures**

Prior to clearing any native vegetation under conditions 1, 2 and 3 of this Permit, the Permit Holder must comply with the Assessment Sequence and the Management Procedures set out in Part II of this Permit.

### PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES

**7. Retain topsoil, revegetation and rehabilitation**

The Permit Holder shall:

- (a) retain the topsoil removed by clearing authorised under this Permit and stockpile the topsoil in an area that has already been cleared.
- (b) within 12 months following completion of extractive activities, *revegetate* and *rehabilitate* the area shaded yellow on attached Plan 5465/1 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 topsoil retained under condition 7(a) on the cleared area; and
  - (v) 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
  - (vi) ensuring only *local provenance* seeds and propagating material are used to *revegetate* and *rehabilitate* the area.
- (c) within 24 months of undertaking *revegetation* and *rehabilitation* in accordance with condition 7(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 7(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, the Permit Holder must undertake additional *planting* or *direct seeding* of native vegetation in accordance with the requirements of condition 7(b)(v) and (vi) of this Permit.
- (d) Where additional *planting* or *direct seeding* of native vegetation is undertaken in accordance with condition 7(c)(ii) of this permit, the Permit Holder shall repeat condition 7(c)(i) and 7(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 7(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 7(c)(ii), the CEO may require the Permit Holder to undertake additional *planting* and *direct seeding* in accordance with the requirements under condition 7(c)(ii).

### **PART III - RECORD KEEPING AND REPORTING**

#### **8. Records to 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 the *revegetation* and *rehabilitation* of areas pursuant to condition 7 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.

#### **9. 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 8 of this Permit; and
  - (ii) concerning activities done by the Permit Holder under this Permit 1 January to 31 December of the preceding calendar year.

- (b) If no clearing authorised under this Permit was undertaken between 1 January to 31 December of the preceding calendar 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 10 May 2023, the Permit Holder must provide to the CEO a written report of records required under condition 8 of this Permit where these records have not already been provided under condition 9(a) of this Permit.

## DEFINITIONS

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

**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;

**local provenance** means native vegetation seeds and propagating material from natural sources within 50 kilometres of the area cleared.

**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;

**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.

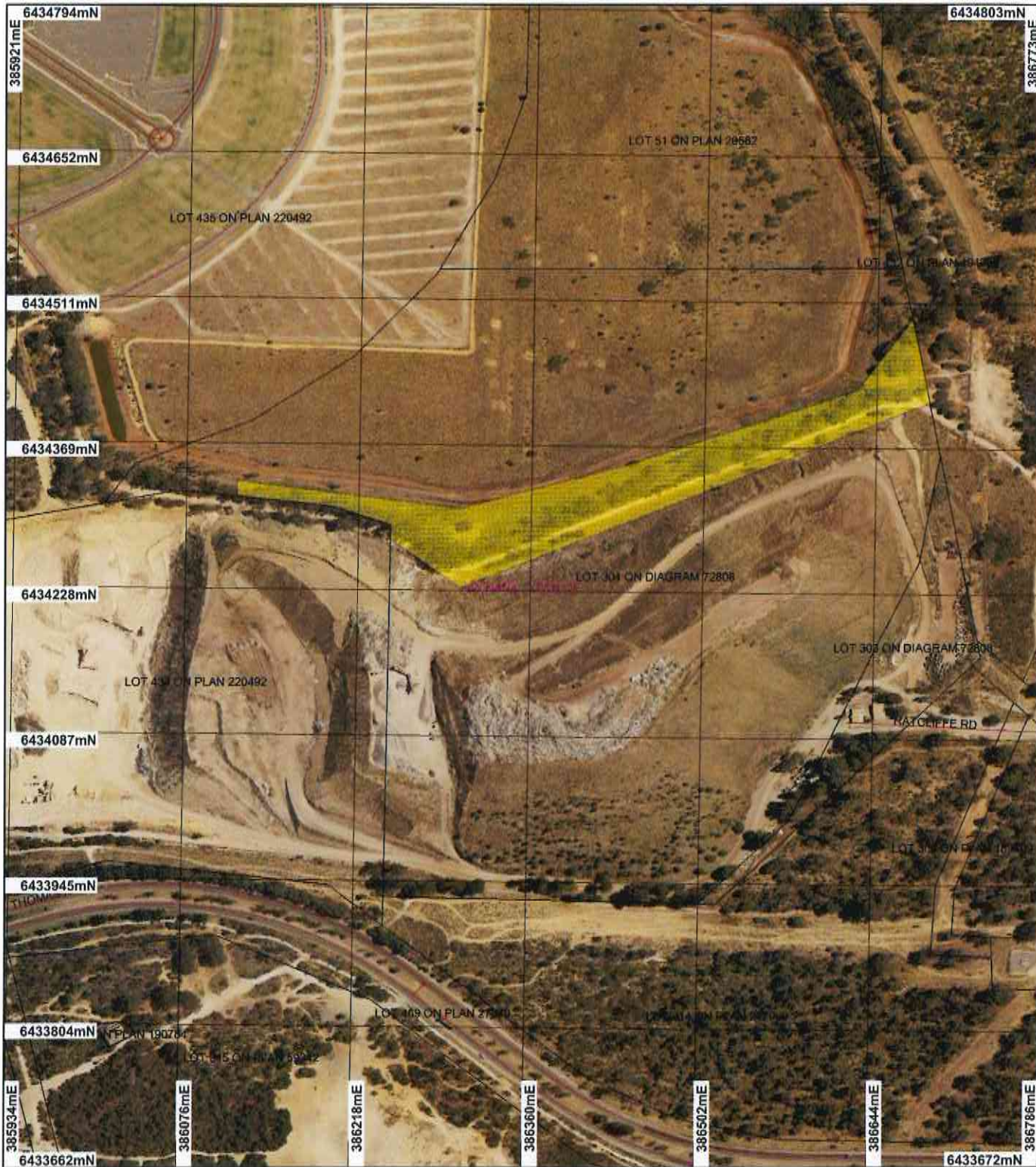
B. Walker

Belinda Walker  
A/MANAGER  
NATIVE VEGETATION CONSERVATION BRANCH

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

11 July 2013

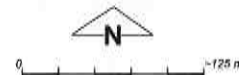
# Plan 5465/1



## LEGEND

-  Cadastre
-  Local Government Authorities
-  Road Centrolines
-  Clearing Instruments
-  Areas Approved in Clear

Perth Metropolitan Area  
Central 15cm Orthomosaic -  
Landgate 2012



Scale 1:5000  
(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.

*B. Walker* Date *11/2/13*  
B Walker

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.



Government of Western Australia  
Department of Environment Regulation

WA Crown Copyright 2002



# Clearing Permit Decision Report

Government of Western Australia  
Department of Environment Regulation

## 1. Application details

### 1.1. Permit application details

Permit application No.: 5465/1  
Permit type: Purpose Permit

### 1.2. Proponent details

Proponent's name: Waste Stream Management Pty Ltd

### 1.3. Property details

Property: LOT 304 ON DIAGRAM 72808 ( KWINANA BEACH 6167)  
Local Government Area: City of Rockingham  
Colloquial name:

### 1.4. Application

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

### 1.5. Decision on application

Decision on Permit Application: Grant  
Decision Date: 11 July 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 - Medium woodland; tuart (Shepherd et al. 2001).	The application is to clear up to one hectare of native vegetation on Lot 304 on Diagram 72808, Kwinana Beach, for the purpose of constructing an access road and for quarrying sand and limestone.	Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	Vegetation description and condition were determined through aerial imagery, supporting documentation provided by applicant (Mattiske Consulting Pty Ltd 2012) and site inspection (DEC 2013).
Hedde Vegetation Complex: Cottesloe Complex Central and South - Mosaic of woodland of Eucalyptus gomphocephala (Tuart) and open forest of Eucalyptus gomphocephala (Tuart) - Eucalyptus marginata (Jarrah) - Corymbia calophylla (marri); closed heath on the Limestone outcrops (Hedde et al. 1980).	The vegetation under application consists of a Eucalyptus camaldulensis var. camaldulensis (planted), Eucalyptus erythrocorys (planted) and Eucalyptus gomphocephala overstorey, a Spyridium globulosum and Acacia saligna understorey and a groundcover of introduced grasses (Mattiske Consulting Pty Ltd 2012).		

## 3. Assessment of application against clearing principles

### Comments

The application is to clear up to one hectare of native vegetation on Lot 304 on Diagram 72808, Kwinana Beach, for the purpose of constructing an access road and for quarrying sand and limestone.

The vegetation under application consists of a Eucalyptus camaldulensis var. camaldulensis (planted), Eucalyptus erythrocorys (planted) and Eucalyptus gomphocephala overstorey, a Spyridium globulosum and Acacia saligna understorey and a groundcover of introduced grasses (Mattiske Consulting Pty Ltd 2012).

The vegetation under application is in completely degraded (Keighery 1994) condition and has been disturbed through historical clearing, rubbish dumping and weed invasion (DEC 2013).

A flora and vegetation survey undertaken over the application area did not identify any rare or priority flora species or threatened ecological communities (Mattiske Consulting Pty Ltd 2012). The survey was undertaken in February, which is not an appropriate time to survey for the rare flora species mapped within the local area. However, given the condition of the vegetation under application, rare flora is unlikely to occur within the application area.

The application area is located approximately 400 metres north of Bush Forever site 349 - Leda and Adjacent

Bushland, Leda. Given the application area is separated from this site by a quarry and major road, the proposed clearing is not likely to impact on this conservation area.

Given the completely degraded condition of the vegetation, it is unlikely to be representative of the vegetation associations mapped over the application area and is unlikely to contain significant fauna habitat. No potential habitat trees were observed within the application area (Mattiske Consulting Pty Ltd 2012).

There are no watercourses or wetlands within the application area. Therefore, the proposed clearing is unlikely to cause or exacerbate flooding or impact on water quality. Given the size and linear shape of the proposed clearing, significant land degradation is unlikely to occur.

The assessment of the application identified that the proposed clearing is not likely to be at variance to any of the clearing principles.

**Methodology**    References:  
DEC 2013  
Keighery 1994  
Mattiske Consulting Pty Ltd 2012  
GIS Databases:  
- Bush Forever sites  
- Heddle Vegetation Complexes  
- Hydrography, Linear  
- Pre-European Vegetation  
- SAC Biodatasets

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

##### **Comments**

The application is to clear up to one hectare of native vegetation on Lot 304 on Diagram 72808, Kwinana Beach, for the purpose of constructing an access road and for quarrying sand and limestone.

The application area is located within the Cockburn Groundwater Area covered by the Rights in Water and Irrigation Act 1914. The Department of Water has advised there is an existing licence to take groundwater over the property, issued to the Town of Kwinana, to supply water for industrial purposes. If the applicant wishes to extract groundwater using this licence, an amendment to the licence may be required (DoW 2013). The applicant has been informed of this advice.

An Extractive Industry licence is required for the proposed clearing activities. An application for an Extractive Industry licence was lodged with the Town of Kwinana, who referred it to the Western Australia Planning Commission (WAPC). Development approval from WAPC has been obtained (WAPC 2013).

No submissions were received in relation to this clearing permit application.

**Methodology**    References:  
DoW 2013  
WAPC 2013  
GIS Databases:  
- RIWI Act areas

#### **4. References**

- DEC (2013) Site inspection report for Clearing Permit Application CPS 5465/1. Site inspection undertaken 11/03/2013. Department of Environment and Conservation, Western Australia. DEC REF: A618190.
- DoW (2013) Advice for Clearing Permit Application CPS 5465/1. Received 18/03/2013. Department of Water, Western Australia. DEC REF: A612013.
- Government of Western Australia. (2013). 2012 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of October 2012. WA Department of Environment and Conservation, Perth.
- Heddle, 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.
- Mattiske Consulting Pty Ltd (2012) Flora and Vegetation Survey for Waste Stream Management Tenements. Mattiske Consulting Pty Ltd, Western Australia. DEC REF: A595925.
- 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.
- WAPC (2013) Approval to Commence Development - Lot 304 on Diagram 72808, Kwinana Beach. Western Australian Planning Commission, Western Australia. DEC REF: A647028.

#### **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)