



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

PERMIT DETAILS

Area Permit Number: 5702/1
File Number: DER2013/000131-1
Duration of Permit: From 23 August 2014 to 23 August 2016

PERMIT HOLDER

Terra Spei Pty Ltd

LAND ON WHICH CLEARING IS TO BE DONE

Lot 1 on Diagram 62944, Forrestfield
Lot 20 on Diagram 71079, Forrestfield
Lot 21 on Diagram 71079, Forrestfield

AUTHORISED ACTIVITY

The Permit Holder shall not clear more than 2.2 hectares of native vegetation within the area hatched yellow on attached Plan 5702/1.

CONDITIONS

1. Dieback and weed control

- (a) 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*:
- (i) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
 - (ii) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared;
 - (iii) restrict the movement of machines and other vehicles to the limits of the areas to be cleared;
- (b) At least once in each 12 month period for the term of this Permit, the Permit Holder must remove or kill any *weeds* growing within areas cleared under this Permit.

DEFINITIONS

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

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

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 any plant -

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



Jane Clarkson
A/SENIOR MANAGER
CLEARING REGULATION

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

24 July 2014

Plan 5702/1



LEGEND

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

Perth Metropolitan Area
Central 15cm Orthomosaic -
Landgate 2012



Scale 1:3000
(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 24.7.14

J Clarkson
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.: 5702/1
Permit type: Area Permit

1.2. Proponent details

Proponent's name: Terra Spei Pty Ltd

1.3. Property details

Property: LOT 20 ON DIAGRAM 71079 (House No. 259 BERKSHIRE FORRESTFIELD 6058)
LOT 1 ON DIAGRAM 62944 (House No. 251 BERKSHIRE FORRESTFIELD 6058)
LOT 21 ON DIAGRAM 71079 (House No. 257 BERKSHIRE FORRESTFIELD 6058)
Local Government Area: Shire of Kalamunda

Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
2.2		Mechanical Removal	Building or Structure

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 24 July 2014

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 1001:Medium very sparse woodland; jarrah, with low woodland; banksia & casuarina (Shepherd et al 2001). Hedde vegetation complex 'Southern River Complex': Open woodland of <i>Corymbia calophylla</i> (Marri) - <i>Eucalyptus marginata</i> (Jarrah) - Banksia species with fringing woodland of <i>Eucalyptus rudis</i> (Flooded Gum) - <i>Melaleuca raphiophylla</i> (Swamp Paperbark) along creek beds (Hedde 1980).	The application proposes to clear 2.2 hectares of native vegetation within Lot 1 on Diagram 62944, Lots 20 and 21 on Diagram 71079, Forrestfield, for the purpose of constructing storage and laydown area.	Degraded; Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994). To Completely Degraded: No longer intact; completely/almost completely without native species (Keighery 1994)	The vegetation condition and description was determined from aerial imagery and a flora and vegetation survey undertaken by VDM Consulting (2008).

3. Assessment of application against clearing principles

Comments

The application proposes to clear up to 2.2 hectares of native vegetation within Lot 1 on Diagram 62944, Lots 20 and 21 on Diagram 71079, Forrestfield, for the purpose of constructing a storage and laydown area.

Although 2.2 hectares have been proposed to be cleared the footprint area contains a number of buildings, cleared areas and non-native species, therefore the actual extent of clearing is expected to be less than 2.2 hectares.

Numerous priority and rare flora have been recorded within the local area (five kilometre radius), the closest being a rare flora species located approximately 30 metres north of the application area. This species is found on sand and sandy clay soils often over laterite on flat or gently sloping sites the foothills of the Darling scarp (Brown et al 1998). Suitable habitat for this species may be located within the application area, however, a flora survey undertaken within the area under application did not identify any rare or priority flora (VDM Consulting 2008). The proposed clearing may indirectly impact this community of rare flora through the introduction or spread of weeds and dieback. Weed and dieback management practices will help mitigate this risk.

Numerous fauna species listed as rare or likely to become extinct under the Wildlife Conservation Act 1950 have been recorded within the local area (five kilometre radius). The application area is in a completely degraded to degraded (Keighery 1994) condition therefore it is unlikely the vegetation proposed to be cleared is significant habitat for ground dwelling fauna. The vegetation may provide habitat for avifauna including *Calyptorhynchus banksia* subsp. *naso* (forest Red-tailed Black Cockatoo), *Calyptorhynchus baudinii* (Baudin's Cockatoo) and *Calyptorhynchus latirostris* (Carnaby's Cockatoo), however, suitable habitat in a better condition is located within Bush Forever Site 123 located approximately 25 metres north east of the application area.

A threatened ecological community (TEC) 'Banksia attenuata woodland over species rich dense shrublands (SCP20a)' is located within Bush Forever Site 123, approximately 25 metres north east of the application area. The applicant has advised that a buffer consisting of a firebreak and a physical barrier (masonry wall) will be constructed between the proposed storage and laydown area and the TEC and Bush Forever site. Therefore, it is unlikely the proposed clearing will impact on the environmental values of this TEC and conservation area.

The application area is mapped within a multiple use wetland. The Water and Rivers Commission (2001) considers multiple use category wetlands as having few important attributes and functions remaining. Given the completely degraded to degraded (Keighery 1994) condition of the vegetation proposed to be removed, its clearing is not likely to have a significant impact upon the environmental values of this wetland.

Given the vegetation proposed to be cleared is in a completely degraded to degraded (Keighery 1994) condition it is unlikely for the proposed clearing to cause or exacerbate land degradation or flooding, impact on water quality or contain a high level of biodiversity.

The area under application is located within the Swan Coastal Plain Interim Biogeographic Regionalisation of Australia (IBRA) bioregion and is mapped as Beard Association 1001 and Heddle Vegetation complex 'Southern River Complex' which have 39, 25 and 20 per cent, respectively, of their pre-European vegetation extent remaining (Government of Western Australia 2013 and Heddle 1980). The Environmental Protection Authority (EPA) recognises the Perth Metropolitan Region as a constrained area, which provides for the reduction of vegetation complexes to a minimum of 10 per cent of the pre-European extent (EPA 2006). Given that the IBRA bioregion and vegetation associations retain more than 10 per cent, the vegetation proposed to be cleared is not considered to be a significant remnant in an extensively cleared landscape.

The assessment of the application identified that the clearing is at variance to Principle (f) and is not likely to be at variance to the remaining clearing principles.

Methodology

References:

- Brown et al (1998)
- EPA (2006)
- Government of Western Australia (2013)
- Heddle 1980- Keighery (1994)
- VDM Consulting (2008)
- Water and Rivers Commission (2001)

GIS Databases:

- Bush Forever
- Geomorphic Wetlands (Mgt Categories), Swan Coastal Plain
- Pre-European vegetation
- SAC Bio datasets (Accessed August 2013)

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

Comments

Phase 1 of the project includes the establishment of layout/storage area for holding inert materials that will be recycled as part of the Phase 2 proposal. The proposed end use of the area under application (Phase 2) is the establishment of an inert recycling facility which will process construction and demolition waste, predominantly consisting of inert materials such as bricks, concrete, paving slabs, tiles, sand and gravel to generate a range of recycled building products including sand, roadbases and aggregates.

A works approval has been granted by the Department of Environment Regulation, Industry Regulation Branch.

Development Approval has been obtained from the Shire of Kalamunda.

The application area is mapped within Aboriginal Sites of Significance 'Poison Gully Creek'. The applicant will be notified of their obligations under the Aboriginal Heritage Act 1972.

The application area is zoned as 'Industrial Development' under the local Town Planning Scheme Zones.

Methodology

GIS Databases:

- Aboriginal Sites of Significance

4. References

- Brown A., Thomson-Dans C. and Marchant N.(1998). Western Australia's Threatened Flora, Department of Conservation and Land Management, Western Australia.
- DEC (2007 -) NatureMap: Mapping Western Australia's Biodiversity. Department of Environment and Conservation. URL: <http://naturemap.dec.wa.gov.au/>. Accessed August 2013
- EPA (2006) Guidance for the Assessment of Environmental Factors - Level of Assessment for Proposals Affecting Natural Areas Within the System 6 Region and Swan Coastal Plain Portion of the System 1 Region. Guidance Statement No 10. Environmental Protection Authority, Western Australia.
- 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.
- 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., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.
- VDS Consulting (2008) Flora and Vegetation Survey - All lots Bounded By Berkshire Road, Roe Highway, Milner road and Sultana Road West (excluding lots 1, 2, 211, 212, 213, 214, 217, 218, 219 and 220)
- Water and Rivers Commission (2001) Position Statement: Wetlands, Water and Rivers Commission, Perth.