



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 7337/1
Permit Holder:	Great Sand Supplies Pty Ltd
Duration of Permit:	4 March 2017 – 4 March 2022

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 road widening and safety.

2. Land on which clearing is to be done

Lot 2 on Diagram 42237, The Lakes

State Forest, The Lakes (PINs 11813453, 11152121, 11965818, 463217, 463219 and 463229)

Flynn Road reserve, The Lakes (PINs 11234521, 1123451, 11524897, 11429951, and 11429949)

Cobb Road reserve, The Lakes (PIN 11429950)

3. Area of Clearing

The Permit Holder must not clear more than 0.8 hectares of native vegetation within the area hatched yellow on attached Plan 7337/1.

4. 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.

PART II – MANAGEMENT CONDITIONS

5. Avoid, minimise etc clearing

In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:

- avoid the clearing of native vegetation;
- minimise the amount of native vegetation to be cleared; and
- reduce the impact of clearing on any environmental value.

6. 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:

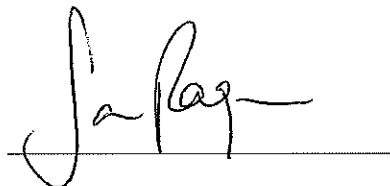
dieback means the effect of *Phytophthora* species on native vegetation;

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.



Samara Rogers
A/MANAGER
CLEARING REGULATION

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

2 February 2017

Plan 7337/1



Legend

-  Localities
-  Roads
-  Imagery
-  Clearing Instruments Activities
-  Local Government Authority



1:33,457
 (Approximate when reproduced at A4)
 GDA 94 (Lat/Long)
 Geocentric Datum of Australia 1994

Sa Rog Date *2/2/2017*
Samara Rogers

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



1. Application details

1.1. Permit application details

Permit application No.: 7337/1
Permit type: Purpose Permit

1.2. Applicant details

Applicant's name: Great Sand Supplies Pty Ltd

1.3. Property details

Property: Lot 2 on Diagram 42237, The Lakes State Forest, The Lakes (PINs 11813453, 11152121, 11965818, 463217, 463219 and 463229)
Flynn Road reserve, The Lakes (PINs 11234521, 1123451, 11524897, 11429951, and 11429949)
Cobb Road reserve, The Lakes (PIN 11429950)

Colloquial name:
Local Government Authority: MUNDARING, SHIRE OF
DER Region: Greater Swan
DPaW District: PERTH HILLS
LCDC:
Localities: THE LAKES and GORRIE

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
0.8		Mechanical Removal	Road widening and safety

1.5. Decision on application

Decision on Permit Application: Granted
Decision Date: 2 February 2017
Reasons for Decision: The clearing permit application was received on 31 October 2016 and has been assessed against the clearing principles, planning instruments and other matters in accordance with s51O of the Environmental Protection Act 1986, and it has been concluded that the proposed clearing may be at variance to clearing principles (f) and (h) and is not likely to be at variance to any of the remaining clearing principles.

The Delegated Officer has determined that the proposed clearing is not likely to result in any significant environmental impacts.

Implementing hygiene management practices will limit the risk of weeds and dieback spreading within conservation estate.

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
The application area is mapped as Beard vegetation association 3003, which is described as Medium forest; jarrah & marri on laterite with wandoo in valleys, sandy swamps with teatree and <i>Banksia</i> (Shepherd et al., 2001).	The application is to clear 0.8 hectares of native vegetation within Lot 2 on Diagram 42237, State Forest Flynn Road reserve and Cobb Road reserve, The Lakes, for the purpose of road widening and safety.	Good; Structure significantly altered by multiple disturbance; retains basic structure/ability to regenerate (Keighery, 1994).	The condition and structure of the vegetation in the application area was obtained via a flora and vegetation assessment undertaken by Landform Research (Landform Research, 2016). The vegetation within the application area consists of scattered Wandoo trees over an understorey dominated in places by a mixture of understorey species such as <i>Hibbertia hypericoides</i> , <i>Hibbertia huegelii</i> , <i>Daviesii preissii</i> , <i>Grevillea synaphea</i> , <i>Acacia pulchella</i> and <i>Leucopogon propinquus</i> (Landform Research, 2016).

3. Assessment of application against clearing principles

Comments

The application is to clear up to 0.8 hectares of native vegetation within Lot 2 on Diagram 42237, State Forest Flynn Road reserve and Cobb Road reserve, The Lakes, for the purpose of road widening and safety. The vegetation within the application area is in a good (Keighery, 1994) condition (Landform Research, 2016). The local area (10 kilometre radius) is extensively vegetated with approximately 80 per cent native vegetation cover.

According to available databases, five priority flora species have been mapped within the local area (10 kilometres). The species are *Cyanicula ixioides* subsp. *ixioides* (Priority 4), *Trithuria australis* (Priority 4), *Cyanicula ixioides* subsp. *candida* (Priority 2), *Adenanthos cygnorum* subsp. *chamaephyton* (Priority 3) and *Tetratheca pilifera* (Priority 3). All of the recorded priority 3 and 4 flora species have been mapped as occurring within the same soil and vegetation type as the application area. *Cyanicula ixioides* subsp. *candida* (Priority 2) has been mapped within a different vegetation and soil type associated to the application area.

Priority 3 flora species are species that are known from several locations, and the species do not appear to be under imminent threat, or from few but widespread locations with either large population size or significant remaining areas of apparently suitable habitat, much of it not under imminent threat (Jones, 2015). Priority 4 flora species are considered to have been adequately surveyed, or for which sufficient knowledge is available, and that are considered not currently threatened or in need of special protection, but could be if present circumstances change (Jones, 2015). Noting the size and the linear nature of the application area, the proposed clearing is not likely to impact on the conservation status of the mapped priority 3 and 4 flora species.

According to available databases, there has been no rare flora, threatened or priority ecological communities mapped within the local area.

Six 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). This includes but not limited to, Carnaby's cockatoo (*Calyptorhynchus latirostris*), Baudin's cockatoo (*Calyptorhynchus baudinii*), forest red-tailed black cockatoo (*Calyptorhynchus banksii* subsp. *naso*), numbat (*Myrmecobius fasciatus*), chuditch (*Dasyurus geoffroii*) and southern brush-tailed phascogale (*Phascogale tapoatafa* subsp. *tapoatafa*) (Department of Parks and Wildlife, 2007-).

A black cockatoo breeding survey of the application area identified six trees to be of an appropriate size for breeding purposes for black cockatoos (Landform Research, 2016). Of the identified trees, one wandoo tree had a hollow of the correct aspect and size to be used by black cockatoos however, no signs of chewing or wear were observed on the entrance to the hollow (Landform Research, 2016).

Given the linear nature of the application area and the local area having approximately 80 per cent native vegetation remaining, the application area is not likely to contain significant foraging habitat for black cockatoos or contain significant habitat fauna indigenous to Western Australia.

The application area is located within the Jarrah Forest Interim Biogeographic Regionalisation of Australia (IBRA) bioregion and the Shire of Mundaring which retain approximately 54 and 67 per cent of their pre-European vegetation extents respectively (Government of Western Australia, 2015). The national objectives and targets for biodiversity conservation includes a target that prevents the clearance of ecological communities with an extent below 30 per cent of that present pre-European settlement (Commonwealth of Australia, 2001). Given the application area is not likely to contain significant habitat for flora and fauna of conservation significance and the extensively vegetated local area, the application area is not considered a significant remnant.

The application area is located within the Mundaring State Forest. The proposed clearing may impact on the state forest by increasing the risk of weeds and dieback being introduced into adjacent areas of remnant vegetation and therefore the proposed clearing may be at variance to principle (h). Weed and dieback mitigation measures will assist in minimising this risk.

One watercourse is mapped in the application area; the Wariin Brook intersects with the eastern section of the application area. No other wetlands or watercourses are mapped within the application area. Given the presence of Wariin Brook the application area may contain vegetation associated with a wetland and therefore the proposed clearing may be at variance to principle (f). Noting the size and linear nature of the application area, impacts are not likely to be significant. The proposed clearing is not likely to deteriorate the quality of groundwater or surface water, cause or exacerbate flooding or cause appreciable land degradation.

Given the above, the proposed clearing may be at variance to Principle (f) and (h) and is not likely to be at variance to any of the remaining clearing Principles.

Methodology

References:

Commonwealth of Australia (2001)
Department of Parks and Wildlife (2007-)
Government of Western Australia (2015)
Jones (2015)
Keighery (1994)
Landform Research (2016)

- GIS datasets:
- Hydrography linear
 - Parks and Wildlife Tenure
 - SAC Bio datasets accessed January 2017

Planning instruments and other relevant matters.

Comments Department of Parks and Wildlife (Parks and Wildlife) at an officer level, advised that they have "previously assessed the sections of road that this clearing permit sits over and have made recommendations that resulted in some significant wandoo trees remaining by a slight boundary adjustment, consequently Parks and Wildlife, Perth Hills District have no issue with the proposed clearing works" (Parks and Wildlife, 2016).

The Shire of Mundaring advised they support the proposed widening and lowering of crests on Flynn Road (Landform Research, 2016).

Parks and Wildlife's District Manager provided permission for the proposed clearing to be undertaken within the state forest (Landform Research, 2016). The approval is conditional on the applicant receiving a clearing permit and that the clearing will predominately be within the road reserve with only small amounts of clearing within state forest for the purpose of safety and site lines (Landform Research, 2016).

The application lies with Zone A, a very high salinity risk part of the Mundaring Weir Catchment Area. Department of Water (DoW) policies and guidelines allows for clearing in Zone A, subject to an equivalent area being reforested within the same or higher salinity risk zone. DoW has discussed the project with Landform Research and Great Sand Supplies and is satisfied that the proposed clearing will be limited to 0.84 hectares and as such, the previous *Country Areas Water Supply Act 1947* (CAWS Act) advice provided to the applicant should be adhered to (Landform Research, 2016). The approval under the CAWS Act is to clear up to 0.84 hectares under the conditional that a salinity mitigation offset of 1.68 hectares be established in the agreed area (Research Landforms, 2016).

No registered Aboriginal Sites of Significance occur within the application area.

The application was advertised in The West Australian newspaper on 12 December 2016 for a 7 day submission period. No public submissions have been received.

Methodology References:
Parks and Wildlife (2016)
Landform Research (2016)

GIS datasets:
Aboriginal Sites of Significance

4. References

- Commonwealth of Australia (2001) National Objectives and Targets for Biodiversity Conservation 2001-2005, Canberra.
- Department of Parks and Wildlife (Parks and Wildlife) (2016) Regional advice received in relation to Clearing Permit Application CPS 7337/1- Great Sand Supplies Pty Ltd (DER Ref:A1363819).
- Department of Parks and Wildlife (Parks and Wildlife) (2007-) NatureMap: Mapping Western Australia's Biodiversity. Department of Parks and Wildlife. URL: <http://naturemap.dpaw.wa.gov.au/>. Accessed December 2016
- Government of Western Australia (2015). 2015 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of June 2015. WA Department of Parks and Wildlife, Perth.
- Jones, A. (2015) Threatened and Priority Flora List, 11 November 2015. Department of Parks and Wildlife: Kensington, WA.
- 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 (2016) Management Plan for Clearing. Proposed Upgrade to Flynn Road, The Lakes – Great Sand Supplies (DER Ref:A1188027)
- Shepherd, D.P., Beeston, G.R. and Hopkins, A.J.M. (2001) Native Vegetation in Western Australia, Extent, Type and Status. Resource Management Technical Report 249. Department of Agriculture, Western Australia.

