



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 6260/1
Permit Holder:	City of Swan
Duration of Permit:	3 January 2015 – 3 January 2020

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.

2. Land on which clearing is to be done

Lot 1 on Diagram 34033, Cullacabardee
Lot 5 on Diagram 38241, Cullacabardee
Lot 59 on Diagram 44210, Cullacabardee
Lot 8 on Diagram 47092, Landsdale
Lot 551 on Deposited Plan 402046, Lexia
Lot 552 on Deposited Plan 402046, Lexia
Gnangara Road reserve (PIN 11543276), Cullacabardee
Gnangara Road reserve (PIN 11543277), Lexia
Gnangara Road reserve (PIN 11560495), Gnangara

3. Area of Clearing

The Permit Holder must not clear more than 6.41 hectares of native vegetation within the combined areas hatched yellow on attached Plan 6260/1a, Plan 6260/1b, Plan 6260/1c, Plan 6260/1d, Plan 6260/1e and Plan 6260/1f.

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.



M Warnock
SENIOR MANAGER
CLEARING REGULATION

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

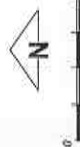
4 December 2014

Plan 6260/1 a



LEGEND

- Government Authorities
- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Perth Metropolitan Central 15cm Orthomosaic - Lanagate 2011



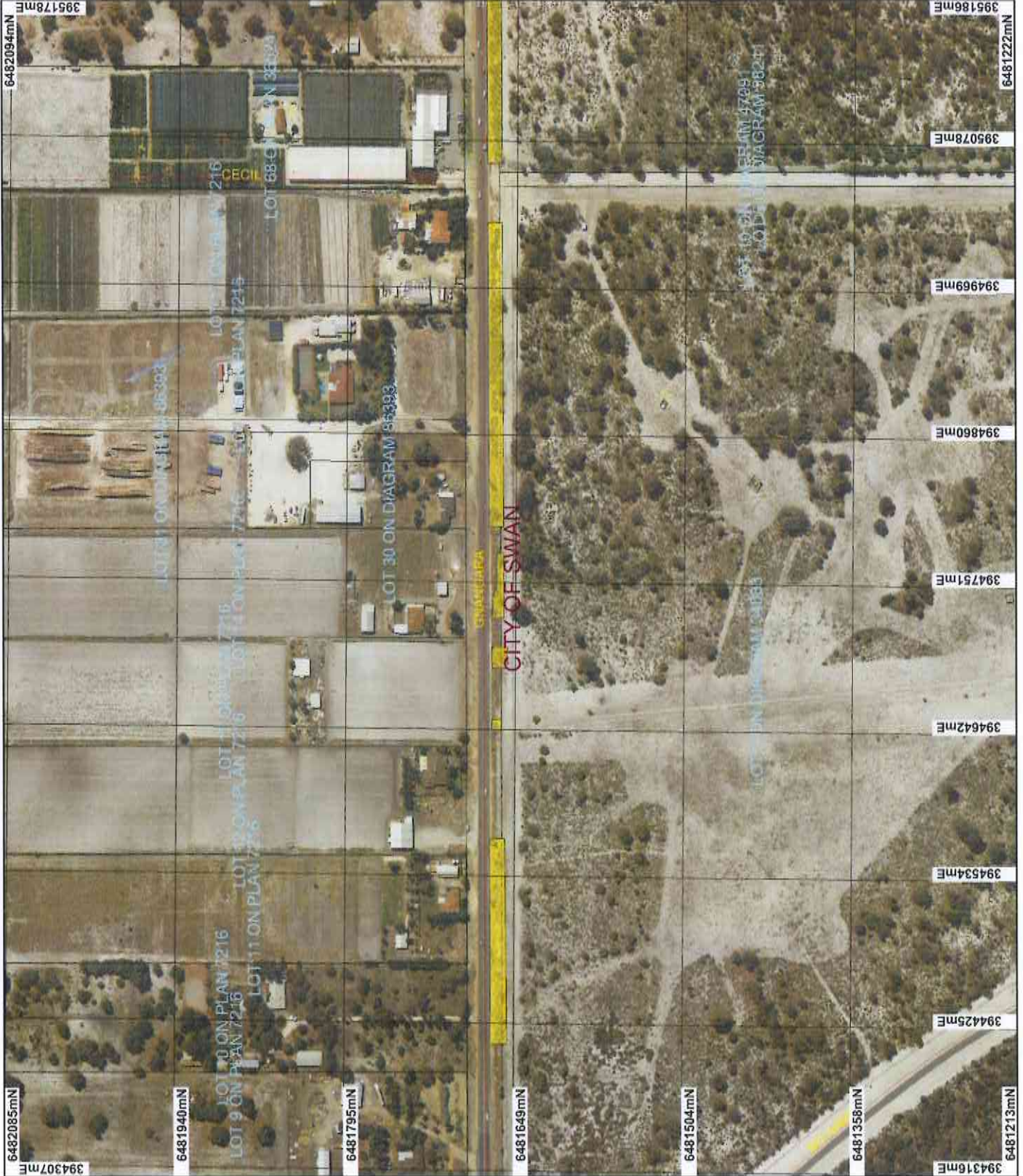
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 (Approximate when reproduced at A4)
 Geocentric Datum Australia 1994
 Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

M. Wierock Date **4/12/14**

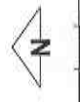
Officer with delegated authority under Section 20 of the Environmental Protection Act 1986
 Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.



Plan 6260/1 b



- LEGEND**
- Government Authorities
 - Road Centrelines
 - Clearing Instruments
 - Areas Approved to Clear
 - Perth Metropolitan Central 15cm Orthomosaic - Lanigate 2011



Scale 1:4200
 (Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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

M. Wameck Date 4/12/14

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Plan 6260/1 d



LEGEND

- Existing Government Authorities
- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear

Perth Metropolitan Central 15cm
Orthomosaic - Landgate 2011

N
 0 to 250 m
 Scale 1:10000
 (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.

M Wameck
 Date 4/12/14
 Officer with delegated authority under Section 20 of
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Plan 6260/1 e



LEGEND

- Existing Government Authorities
 - Road Centrelines
 - Clearing Instruments
 - Areas Approved to Clear
- Perth Metropolitan Central 15cm
Orthomosaic - Landgate 2011



0 125 m

Scale 1:4200

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

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checked. This may result in geometric
distortion or measurement inaccuracies.

M. Waincock Date: 4/12/16

M Waincock

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Plan 6260/1 f



LEGEND

- Local Government Authorities
- Road Centrelines
- Clearing Instruments
- Areas Approved to Clear
- Perth Metropolitan Central 15cm Orthomosaic - Landgate 2011



0 75m

Scale 1:4200
(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.

Completed Date 4/12/14

M. Wierrock

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Department of Environment Regulation
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Clearing Permit Decision Report

Government of Western Australia
Department of Environment Regulation

1. Application details

1.1. Permit application details

Permit application No.: 6260/1
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: City of Swan

1.3. Property details

Property: ROAD RESERVE (GNANGARA 6077)
ROAD RESERVE (LEXIA 6079)
ROAD RESERVE (CULLACABARDEE 6067)
LOT 8 ON DIAGRAM 47092 (House No. 600 GNANGARA LANDSDALE 6065)
LOT 1 ON DIAGRAM 34033 (House No. 620 GNANGARA CULLACABARDEE 6067)
LOT 5 ON DIAGRAM 38241 (Lot No. 5 PARK CULLACABARDEE 6067)
LOT 59 ON DIAGRAM 44210 (Lot No. 59 GNANGARA CULLACABARDEE 6067)
LOT 551 ON DEPOSITED PLAN 402046 (LEXIA 6079)
LOT 552 ON DEPOSITED PLAN 402046 (LEXIA 6079)

Local Government Area: City of Swan, City of Wanneroo
Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
6.41		Mechanical Removal	Road construction or maintenance

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 4 December 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
The vegetation under application is mapped as: Beard vegetation association 1001; medium very sparse woodland; jarrah, with low woodland; banksia & casuarina (Shepherd et al. 2001); Mapped Heddl vegetation association Bassendean Complex - Central and/South: Vegetation ranges from woodland of Eucalyptus marginata (Jarrah) - Allocasuarina fraseriana (Sheoak) - Banksia species to low woodland of Melaleuca species, and sedgelands on the moister sites. This area includes the transition of Eucalyptus marginata (Jarrah) to Eucalyptus todtiana (Pricklybark) in the vicinity of Perth (Mattiske and Havel 1998).	The clearing of 6.41 hectares of native vegetation within Lot 1 on Diagram 34033, Lot 5 on Diagram 38241 and Lot 59 on Diagram 44210, Cullacabardee; Lot 8 on Diagram 47092, Landsdale; Lots 551 and Lot 552 on Deposited Plan 402046, Lexia and Gngangara Road reserve, Cullacabardee, Lexia and Gngangara, is for the purpose of road widening and realignment.	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 condition of the vegetation under application was determined via a site inspection of the application area undertaken by Department of Environment Regulation staff (DER 2014).

3. Assessment of application against clearing principles

Comments

The application is to clear up to 6.41 hectares of native vegetation for the purpose of widening and realigning Gngangara Road. The condition of the vegetation within the application area is degraded to completely

degraded (Keighery 1994) and is largely devoid of native understorey species (DER 2014).

Of the priority flora species mapped within the local area (five kilometre radius), one is mapped within the same vegetation association and soil type as the application area, approximately 3.5 kilometres from the site. Two rare flora species were mapped within the local area, one of which was located within the same vegetation association and soil type as the application area, approximately 2.3 kilometres from the site. Neither of these are likely to occur within the application area given the degraded to completely degraded (Keighery 1994) condition of the vegetation on site and lack of native understorey species (DER 2014).

No priority ecological communities were mapped within the local area. Several threatened ecological communities have been mapped within the local area, within the same vegetation association and soil type as the application area. These communities are described as 'Banksia attenuata woodland over species rich dense shrublands'. The nearest is approximately 30 metres south of the proposed clearing area. Given the absence of dense shrublands on site, the proposed clearing is not likely to include or adversely impact on these communities. However, the disturbance caused by the proposed clearing will increase the risk of weeds and dieback spreading into the nearby community. Weed and dieback management will mitigate these risks.

The area under application is located within the Swan Coastal Plain Interim Biogeographic Regionalisation of Australia (IBRA) bioregion. This IBRA bioregion and the City of Swan retain approximately 43 per cent and 39 per cent, respectively, of their pre-European vegetation (Government of Western Australia 2013). Although the local area retains approximately 25 per cent of its pre-European extent of vegetation, given the vegetation is in a degraded to completely degraded (Keighery 1994) condition (DER 2014), the application area is not considered a significant remnant of native vegetation.

No large habitat trees were identified on site (DER 2014). Given the absence of these trees and the degraded to completely degraded (Keighery 1994) condition of the vegetation within the application area, the proposed clearing is not likely to impact adversely on the habitat of indigenous fauna.

No watercourses are mapped within the application area. The application area encroaches slightly on the northern boundary of a 'Resource Enhancement' wetland. However no riparian vegetation was noted during a site inspection undertaken by Department of Environment Regulation Officers (DER 2014).

Given the absence of watercourses, the small extent of a wetland and the well-drained soils within the application area, plus its linear and disjointed nature, the proposed clearing is not likely to impact significantly on the quality of surface water, nor increase the likelihood of flooding. The Water Corporation has advised that a nearby main water source will not be affected by the proposed project (City of Swan 2014).

Gnangara-Moore River State Forest is situated immediately north of the eastern section of the proposed clearing. Much of this area has been used for pine plantations, large portions of which have been, or are currently being, harvested. The proposed clearing is therefore unlikely to impact on the environmental values of this conservation area. The application area encroaches slightly on the northern boundary of a Bush Forever site. Given the linear and disjointed nature of the proposed clearing, resultant impacts to the environmental values of this site are expected to be minimal.

Chief soils within the application area are leached sands. These soils may be prone to wind erosion, however, given the linear and disjointed nature of the application area, the proposed clearing is not likely to cause appreciable land degradation.

Considering the above, the application may be at variance to clearing principles (f) and (h) and is not likely to be at variance to the remaining clearing principles.

Methodology

References:

- City of Swan (2014)
- DER (2104)
- Government of Western Australia (2013)
- Keighery (1994)

GIS Datasets:

- DEC tenure
- Hydrography, linear
- NWLRA, Extent of Native Vegetation
- SAC Biodatasets - accessed November 2014
- Pre-European Vegetation

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

Comments

A portion of the application area encroaches into the City of Wanneroo for which authority to access has been provided to the City of Swan. This area partially overlapped the clearing area of a permit previously granted to the City of Wanneroo i.e. CPS 980/1. This permit has since been surrendered.

A portion of State Forest No. 65 has been revoked to facilitate the widening of Gnangara Road (City of Swan

2014).

The application area falls within the Gnangara Underground Water Pollution Control Area, a Priority 1 Public Drinking Water Source Area. The Department of Water has advised that they have no comment to provide regarding the proposed clearing (DoW 2014).

The application area does not encroach on any Aboriginal Sites of Significance.

No submissions have been received.

Methodology

References:

- City of Swan (2014)
- DoW (2014)

GIS Datasets:

- Aboriginal Sites of Significance
- PDWSA

4. References

- City of Swan (2014) Advice received in relation to clearing permit application CPS 6260/1, received 24 October 2014. City of Swan (DER Ref: A826110).
- DER (2014) Site visit report for clearing permit application CPS 6260/1, 16 October 2014. Department of Environment Regulation, Western Australia (DER Ref: A826551).
- 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.
- 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, E.M. and Havel, J.J. (1998) Vegetation Complexes of the South-west Forest Region of Western Australia. Maps and report prepared as part of the Regional Forest Agreement, Western Australia for the Department of Conservation and Land Management and Environment 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.