



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 8741/2
Permit Holder:	Public Transport Authority
Duration of Permit:	19 March 2020 to 19 March 2025

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 utility relocation and road and rail realignment/widening.

2. Land on which clearing is to be done

Lot 65 on Plan 8914, Kelmscott
Lot 74 on Plan 9623, Kelmscott
Lot 73 on Plan 9623, Kelmscott
Lot 72 on Plan 9623, Kelmscott
Lot 70 on Plan 9623, Kelmscott
Lot 700 on Plan 36583, Kelmscott
Lot 69 on Plan 9623, Kelmscott
Lot 68 on Plan 9623, Kelmscott
Lot 55 on Plan 9623, Kelmscott
Lot 1091 on Plan 796, Kelmscott
Road Reserve (PIN 11210144), Kelmscott
Road Reserve (PIN 11210145), Kelmscott
Road Reserve (PIN 11210141), Kelmscott
Road Reserve (PIN 11210150), Kelmscott
Road Reserve (PIN 11397053), Kelmscott
Road Reserve (PIN 11397051), Kelmscott
Road Reserve (PIN 11210152), Kelmscott
Road Reserve (PIN 11210146), Kelmscott
Road Reserve (PIN 11210155), Kelmscott
Road Reserve (PIN 11397041), Kelmscott
Road Reserve (PIN 11210154), Kelmscott
Road Reserve (PIN 11397043), Kelmscott
Road Reserve (PIN 11397044), Kelmscott
Road Reserve (PIN 1215371), Kelmscott
Road Reserve (PIN 11397045), Kelmscott
Road Reserve (PIN 12058657), Kelmscott

Road Reserve (PIN 11210153), Kelmscott
Road Reserve (PIN 11397042), Kelmscott
Road Reserve (PIN 11210156), Kelmscott
Road Reserve (PIN 11844804), Kelmscott
Road Reserve (PIN 11750928), Kelmscott
Road Reserve (PIN 11210151), Kelmscott
Road Reserve (PIN 11397049), Kelmscott
Road Reserve (PIN 12058658), Kelmscott
Road Reserve (PIN 11397047), Kelmscott
Road Reserve (PIN 11397058), Kelmscott
Road Reserve (PIN 11397048), Kelmscott
Road Reserve (PIN 11875944), Kelmscott
Road Reserve (PIN 1216062), Kelmscott
Road Reserve (PIN 11397059), Kelmscott
Road Reserve (PIN 11930125), Kelmscott
Road Reserve (PIN 11397035), Kelmscott
Road Reserve (PIN 11397057), Kelmscott
Road Reserve (PIN 11246027), Kelmscott
Road Reserve (PIN 11397031), Kelmscott
Road Reserve (PIN 11397055), Kelmscott
Road Reserve (PIN 11875941), Kelmscott
Road Reserve (PIN 11875939), Kelmscott
Road Reserve (PIN 11875943), Kelmscott

3. Area of Clearing

The Permit Holder must not clear more than 0.29 hectares of native vegetation within the area cross-hatched yellow on attached Plan 8741/2.

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 and reduce the impacts and extent of 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:

- (a) avoid the clearing of native vegetation;
- (b) minimise the amount of native vegetation to be cleared; and
- (c) 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.

PART III – RECORD KEEPING AND REPORTING

7. Record keeping

The Permit Holder must maintain the following records in relation to the clearing of native vegetation authorised under this Permit:

- (a) 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;
- (b) the date(s) that the area was cleared;
- (c) the size of the area cleared (in hectares);
- (d) actions taken to avoid, minimise and reduce the impacts and extent of clearing in accordance with condition 5 of this Permit; and
- (e) actions taken to minimise the risk of the introduction and spread of *dieback* and *weeds* in accordance with condition 6 of this Permit; and

8. Reporting

The Permit Holder must produce the records required under condition 7 of this Permit when required by the *CEO*.

DEFINITIONS

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

CEO means the Chief Executive Officer of the Department responsible for the administration of the clearing provisions under the *Environmental Protection Act 1986*;


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 Biodiversity, Conservation and Attractions species-led ecological impact and invasiveness ranking summary, regardless of ranking; or (c) not indigenous to the area concerned.

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Ryan Mincham
MANAGER
NATIVE VEGETATION REGULATION

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

27 October 2020

Plan 8741/2

116°0'36.000"E

116°1'12.000"E



32°7'12.000"S

32°7'12.000"S

116°0'36.000"E

116°1'12.000"E

-  CPS areas approved to clear
-  Local Government Areas
-  Localities - Landgate
- Land Tenure (Landgate - 226)




0 100 200 300 400 m



1:6000

MGA Zone 50
Geocentric Datum of Australia 1994


Ryan Mincham
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Officer delegated under section 20 of the
Environmental Protection Act 1986





1. Application details

1.1. Permit application details

Permit application No.: 8741/2
Permit type: Purpose Permit

1.2. Applicant details

Applicant's name: Public Transport Authority of Western Australia
Application received date: 8 October 2020

1.3. Property details

Property:
 Lot 65 on Plan 8914, Kelmscott
 Lot 74 on Plan 9623, Kelmscott
 Lot 73 on Plan 9623, Kelmscott
 Lot 72 on Plan 9623, Kelmscott
 Lot 70 on Plan 9623, Kelmscott
 Lot 700 on Plan 36583, Kelmscott
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 Road Reserve (PIN 11397055), Kelmscott
 Road Reserve (PIN 11875941), Kelmscott
 Road Reserve (PIN 11875939), Kelmscott
 Road Reserve (PIN 11875943), Kelmscott
Local Government Authority: City of Armadale
Localities: Kelmscott

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	Purpose category:
0.29		Mechanical Removal	Road construction and upgrades

1.5. Decision on application

Decision on Permit Application:

Granted

Decision Date:

27 October 2020

Reasons for Decision:

The clearing permit application was received on 8 October 2020 and has been assessed against the clearing principles, planning instruments and other matters in accordance with section 51O of the *Environmental Protection Act 1986*. It has been concluded that the proposed clearing is not likely to be at variance to any of the clearing principles.

The proposed clearing may increase the risk of weeds and dieback spreading into adjacent vegetated areas, specifically Camillo Reserve, which contains a threatened ecological community. A weed and dieback management condition has been placed on the permit to mitigate the potential for weeds and dieback spreading into adjacent vegetation.

In determining to grant a clearing permit subject to conditions, the Delegated Officer considered that the proposed clearing is not likely to lead to an unacceptable risk to the environment.

2. Site Information

Clearing Description:

The application is for the proposed clearing of 0.29 hectares of native vegetation within 49 land parcels in Kelmscott for the purpose of utility relocation and road and rail realignment/widening to facilitate the greater Denny Avenue Level Crossing Removal project (Figure 1).

Vegetation Description

Two vegetation complexes have been mapped within the application area:

- Forrestfield Complex - Vegetation ranges from open forest of *Corymbia calophylla* (Marri) *Eucalyptus wandoo* (Wandoo) - *Eucalyptus marginata* (Jarrah) to open forest of *Eucalyptus marginata* (Jarrah) - *Corymbia calophylla* (Marri) - *Allocasuarina fraseriana* (Sheoak) - Banksia species. Fringing woodland of *Eucalyptus rudis* (Flooded Gum) in the gullies that dissect this landform (Hedde et al., 1980);
- Swan Complex- Fringing woodland of *Eucalyptus rudis* (Flooded Gum) – *Melaleuca raphiophylla* (Swamp Paperbark) with localised occurrence of low open forest of *Casuarina obesa* (Swamp Sheoak) and *Melaleuca cuticularis* (Saltwater Paperbark) (Hedde et al., 1980).

A flora and vegetation survey undertaken by PGV Environmental (2019) identified four

vegetation types within the application area:

- EmCc – *Eucalyptus marginata* (Jarrah)/*Corymbia calophylla* (Marri) Woodland over *Xylomelum occidentale* Low Open Woodland;
- Em - One Jarrah tree was recorded among other exotic trees on a lot at the northern end of the survey area;
- Cc - Marri trees were very common in the road reserve either side of the rail reserve, mostly at the southern half of the site. In places *Xanthorrhoea preissii* was very common in the understorey, while other areas had a completely weedy understorey. Other tree species recorded within the lines of Marri trees in the road reserve included *Casuarina cunninghamiana*, *Eucalyptus camaldulensis* and *Melaleuca preissiana* (Figure 2). Marri trees were also recorded in carparks at the northern end of the site.
- E - Exotic plants. Common exotic species included Bottlebrush (*Callistemon* spp.), Lemon-scented Gum (*Corymbia citriodora*), Flowering Plums (*Prunus* sp.), Redflowering Gum (*Corymbia ficifolia*) and Jacaranda (*Jacaranda mimosifolia*). A large Sugar Gum (*Eucalyptus cladocalyx*) occurred at the intersection of Denny Avenue and Streich Avenue.

Vegetation Condition

Degraded; basic vegetation structure severely impacted by disturbance, scope for regeneration but not to a state approaching good condition without intensive management (Keighery, 1994).

to

Completely degraded; the structure of the vegetation is no longer intact and the area is completely or almost completely without native species (Keighery, 1994).

The vast majority of the site is in a completely degraded vegetation condition. The vegetation condition of the application area was determined during a flora and vegetation survey undertaken to inform the clearing application (PGV Environmental, 2019).

Soil Type

There are three soil types mapped within the application area:

- Pinjarra, Phase Gf2 - Very gently undulating plain with imperfectly drained mottled yellow duplex soils with sand to sandy loam topsoil (Schoknecht *et al.*, 2004).
- EnvGeol S8 Phase - SAND - very light grey at surface, yellow at depth, fine to medium-grained, sub-rounded quartz, moderately well sorted of eolian origin (Schoknecht *et al.*, 2004).
- EnvGeol Cs Phase - SANDY CLAY - white-grey to brown, fine to coarse-grained, subangular to rounded sand, clay of moderate plasticity gravel and silt layers near scarp (Schoknecht *et al.*, 2004).

The majority of the application area falls within the Pinjarra Phase Gf2

Comments

The local area referred to in the assessment of this application is defined as a 10 kilometre radius measured from the perimeter of the application area. None of the application area is mapped as having remnant vegetation, with the area significantly cleared in 1953.



Figure 1: Photographs of native vegetation within the application area – completely degraded (left) and degraded (right)



Figure 2. Additional vegetation proposed to clear under CPS 8741/2.

3. Minimisation and mitigation measures

The applicant advised in their original application (CPS 8741/1) that a number of alternatives have been considered to allow the removal of the Denny Avenue level crossing, including closing the crossing without providing additional east/west linkages at the Kelmscott location.

The applicant has also confirmed that the extent of the clearing has been minimised to the area directly above the existing pipe/trench excavation while still providing safe access for personnel and equipment. The contractor will utilise areas free of vegetation adjacent to the excavation for equipment access/laydown to minimise the extent of native vegetation clearing required.

4. Assessment of application against clearing principles and planning instruments and other matters

On 18 February 2020, the PTA was approved to clear 0.28 ha of native vegetation within a 9.7 ha footprint (DWER, 2020). During the assessment of 8741/2, it was noted that the amendment proposed to increase the clearing area with the addition of two *Acacia rostellifera* (Summer Scented Wattle).

The inclusion of the two trees, surrounded by a further 0.0052 ha of non-endemic and exotic vegetation also to be cleared, is not expected to produce any additional environmental risks to those considered and approved under CPS 8741/1.

No sites of Aboriginal Significance were mapped within the application area. It is the applicant's responsibility to comply with the *Aboriginal Heritage Act 1972* and ensure that no Sites of Aboriginal Significance are damaged through the clearing process.

5. References

Department of Water and Environmental Regulation (2020). Decision Report for clearing permit CPS 8741/1.

Publicly available GIS Databases used (data.wa.gov.au):

- Soil and Landscape Mapping – Best Available
- Landgate Historical Aerial Imagery – Perth Metro Area
- Directory of Important Wetlands in Australia – Western Australia (DBCA-045)
- Geomorphic Wetlands, Swan Coastal Plain (DBCA-019)
- IBRA Vegetation Statistics
- Camaby's Cockatoo Areas requiring investigation as feeding habitat in the Swan Coastal Plain (SCP) IBRA Region (DBCA-057)
- Camaby's Cockatoo Areas requiring investigation as feeding habitat in the Jarrah Forest IBRA Region (DBCA-056)
- Remnant Vegetation

- Groundwater Salinity Statewide (DWER-026)
- Contours (DPIRD-073)
- Soil and Landscape Quality – Wind Erosion Risk (DPIRD-016)
- Soil and Landscape Quality – Water Erosion Risk (DPIRD-013)
- Soil and Landscape Quality – Waterlogging Risk (DPIRD-015)
- Soil and Landscape Quality – Water Repellence Risk (DPIRD-014)
- Soil and Landscape Quality – Subsurface Acidification Risk (DPIRD-011)
- Soil and Landscape Quality – Phosphorus Export Risk (DPIRD-010)
- Soil and Landscape Quality – Salinity Risk (DPIRD-009)
- Flood Risk (DPIRD-007)
- DBCA – Lands of Interest (DBCA-012)
- DBCA Legislated Lands and Waters (DBCA-011)
- Regional Parks (DBCA-026)
- Bush Forever Areas – 2000 (DPLH-019)
- Aboriginal Heritage Places (DPLH-001)
- Local Planning Scheme – Zones and Reserves (DPLH-071)

Restricted GIS Databases used:

- Threatened Flora (TPFL)
- Threatened Flora (WAHerb)
- Threatened Fauna
- TECs and PECs
- TECs and PECs (Buffer)
- Black Cockatoo roost sites
- SCP Vegetation Complex Statistics