



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 1243/2
Permit Holder:	Department of Water
Duration of Permit:	18 June 2007 – 18 June 2012

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**
Access for drill rigs for groundwater monitoring bores.
- 2. Land on which clearing is to be done**
Yeal Nature Reserve (C42450)
- 3. Area of Clearing**
The Permit Holder must not clear more than 1.25 hectares of native vegetation within the area shaded yellow on attached Plan 1243/2.
- 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.
- 5. Type of clearing authorised**
This Permit authorises the Permit Holder to clear native vegetation for activities to the extent that the Permit Holder has the power to clear native vegetation for those activities.
- 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. 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:
 - (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.

8. Dieback and weed control

- (a) When undertaking any *clearing* or other activity pursuant to this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *dieback*:
- (i) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
 - (ii) shall not move soils in wet conditions;
 - (iii) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
 - (iv) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.
- (b) When undertaking any *clearing* or other activity pursuant to this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of weeds:
- (i) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
 - (ii) shall not move soils in wet conditions;
 - (iii) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
 - (iv) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.
- (c) 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.

9. Retain and spread vegetative material and topsoil

The Permit Holder shall:

- (a) Retain the vegetative material and topsoil removed by clearing authorised under this Permit;
- (b) At an *optimal time* following clearing authorised under this Permit, lay the vegetative material and topsoil in an area(s) nominated by the Department of Environment and Conservation.

PART III - RECORD KEEPING AND REPORTING

10. Records must be kept

The Permit Holder must maintain the following records for activities done pursuant to this Permit:
In relation to the clearing of native vegetation authorised under this Permit:

- (a) the species composition, structure and density of the cleared area;
- (b) the location where the clearing occurred, recorded using Geocentric Datum Australia 1994;
- (c) the date that the area was cleared; and
- (d) the size of the area cleared (in hectares).

11. Reporting

The Permit Holder must provide to the CEO, on or before 30 August of each year, a written report of records required under condition 10 and activities done by the Permit Holder under this Permit between 1 January and 31 December of the preceding year.

Definitions

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

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

optimal time means the period from April to June;

term means the duration of this Permit, including as amended or renewed;

weed means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the Agricultural and Related Resources Protection Act 1976.

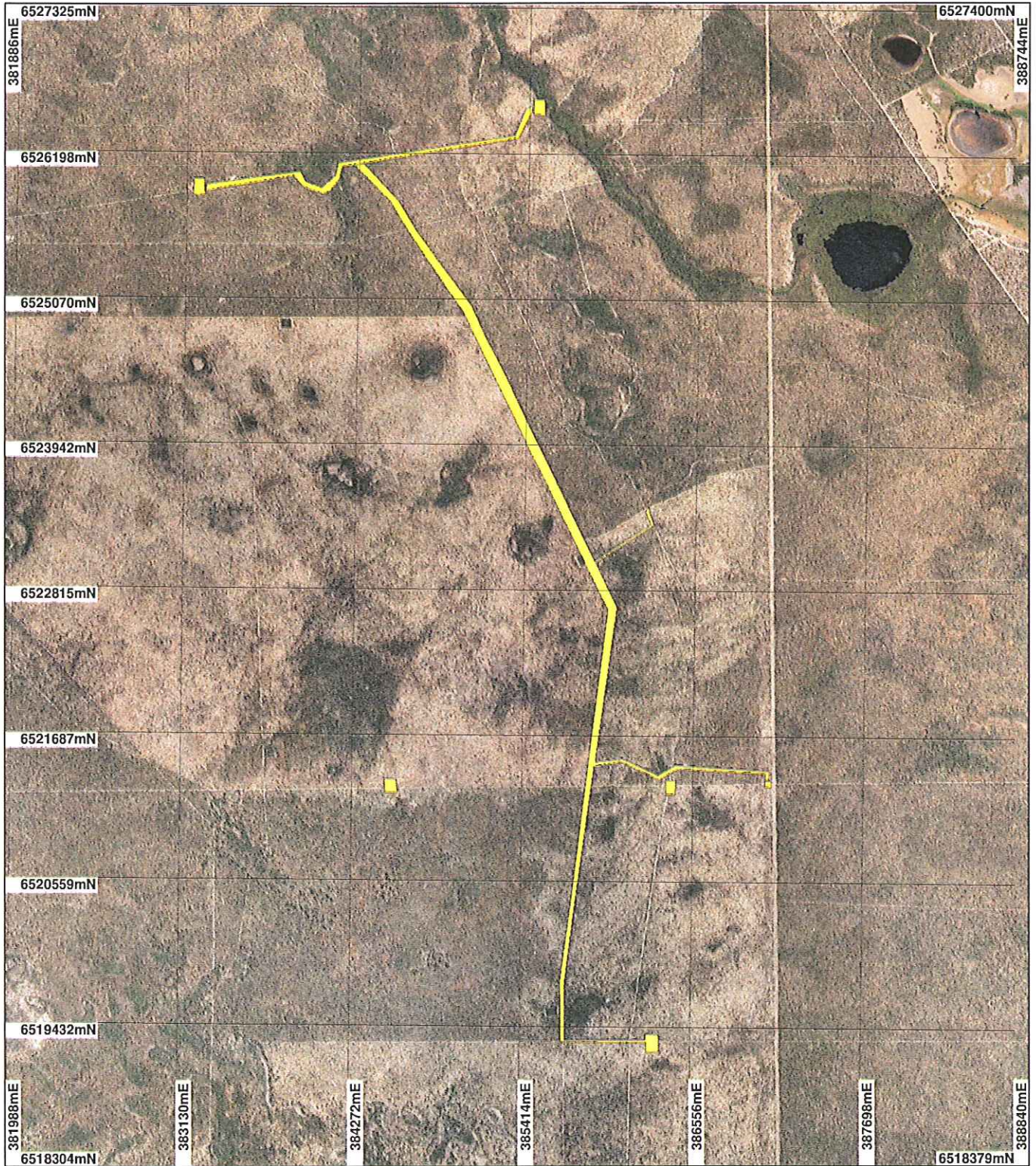


Keith Claymore
A/ ASSISTANT DIRECTOR
NATURE CONSERVATION DIVISION

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

17 September 2009

Plan 1243/2



LEGEND

- Clearing Instruments
- Areas Approved to Clear
 - 50cm Orthomosaic - Landgate 2006



0 ————— ~1 km

Scale 1:40000

(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.

K. Claymore Date *17/6/09*

K. Claymore

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.



Department of Environment and Conservation

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1. Application details

1.1. Permit application details

Permit application No.: 1243/2
 Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: Department of Water

1.3. Property details

Property:

LOT 3563 ON PLAN 205135 (YEAL 6503)
 LOT 3564 ON PLAN 205135 (YEAL 6503)
 ROAD RESERVE (YEAL 6503)
 LOT 3578 ON PLAN 205135 (YEAL 6503)
 LOT 3579 ON PLAN 205135 (YEAL 6503)
 LOT 11619 ON PLAN 243039 (YEAL 6503)
 LOT 3573 ON PLAN 205125 (YEAL 6503)
 LOT 3567 ON PLAN 205135 (YEAL 6503)
 LOT 3566 ON PLAN 205135 (YEAL 6503)
 LOT 3568 ON PLAN 205135 (YEAL 6503)
 LOT 3574 ON PLAN 205125 (YEAL 6503)
 LOT 3575 ON PLAN 205125 (YEAL 6503)
 ROAD RESERVE (YEAL 6503)
 LOT 11620 ON PLAN 243039 (YEAL 6503)
 LOT 11620 ON PLAN 243039 (YEAL 6503)
 LOT 3571 ON PLAN 205136 (YEAL 6503)
 ROAD RESERVE (YEAL 6503)
 LOT 3627 ON PLAN 205136 (YEAL 6503)
 LOT 3628 ON PLAN 205136 (YEAL 6503)
 LOT 3629 ON PLAN 205136 (YEAL 6503)
 LOT 3630 ON PLAN 205136 (YEAL 6503)
 ROAD RESERVE (YEAL 6503)
 ROAD RESERVE (YEAL 6503)
 LOT 3660 ON PLAN 156671 (YEAL 6503)
 ROAD RESERVE (YEAL 6503)
 LOT 3661 ON PLAN 156671 (YEAL 6503)
 LOT 11620 ON PLAN 243039 (YEAL 6503)
 LOT 11620 ON PLAN 243039 (YEAL 6503)
 ROAD RESERVE (YEAL 6503)
 LOT 3662 ON PLAN 156671 (YEAL 6503)
 ROAD RESERVE (YEAL 6503)

Local Government Area: Shire Of Gingin
 Colloquial name:

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
1.25		Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous
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		Mechanical Removal	Miscellaneous
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		Mechanical Removal	Miscellaneous
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		Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous
0	0	Mechanical Removal	Miscellaneous
		Mechanical Removal	Miscellaneous

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
Bassendean Complex North: Vegetation ranges from a low open forest and low open woodland of Banksia species E. tottiana to low woodland of Melaleuca species and sedgelands which occupy the moister sites.	The original proposal was to clear 1.25 hectares of native vegetation within the Yeal Nature Reserve for the construction of limestone drill pads to facilitate the installation of a number of monitoring bores and widening of access track to these drill sites. These bore sites were to be used for the monitoring and management of the water table to give advanced warning should impacts from deeper aquifers threaten Groundwater Dependent Ecosystems.	Pristine: No obvious signs of disturbance (Keighery 1994)	The condition of vegetation was determined using orthomosaic mapping.

3. Assessment of application against clearing principles

Comments

The Department of Water (formerly Water and Rivers Commission) was granted a Clearing Permit CPS 1243/1 on 18 May 2007 to clear 1.25 hectares of native vegetation within the Yeal Nature Reserve for the purpose of constructing limestone drill pads to facilitate the installation of a number of monitoring bores. Clearing Permit CPS 1243/1 has revegetation conditions relating to the drill pad sites.

The Department of Water has been negotiating with the Department of Environment and Conservation (DEC) to retain the limestone drill pad sites to aid in fire operations. DEC supports the retention of the drill pads for fire fighting purposes and the removal of the revegetation conditions pertaining to these drill pads.

The Department of Water has applied for an amendment CPS1243/2 to remove the revegetation conditions from Clearing Permit CPS 1243/1.

Given that the clearing has already been completed, none of the principles are considered to be at variance.

Methodology GIS Databases:
- Gingin 1m Orthomosaic - DLI 03

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

Comments

The original proposal was for the widening of existing tracks and for locating ground water monitoring bores to monitor groundwater levels which will allow for the management of the water table and give advance warning should impacts from the deeper aquifers threaten Groundwater Dependent Ecosystems. Additionally, the data that is produced from the bores will be of use for monitoring local hydrology and the associated habitat.

The Department of Water (formerly Water and Rivers Commission) has applied to amend Clearing Permit CPS 1243/1 to remove revegetation conditions 7(b) (i) and (ii), 7(c), 7(d) and 8 (b) (TRIM DOC93368).

The Department of Water (formerly Water and Rivers Commission) has been in negotiation with DEC, Swan Coastal District to retain the limestone drill pads for fire fighting purposes and to remove the revegetation conditions for these drill pads from Clearing Permit CPS 1243/1. This is supported by DEC (TRIM DOC93249).

Methodology References:
- DEC (2009)
- Department of Water (2009)

4. Assessor's comments

Comment

The proposal is to clear for the monitoring of groundwater levels to part of the Gngangara Mound.

The principles have been assessed and the clearing proposed is at variance to principle a and is seriously at variance to principles f and h. Access for drill rigs for groundwater monitoring bores.

(NG1)

NG3

NG4A

NG8

NG10

WC4

WC6

WC6a

Track 2

Track 3

Track 5

NG10 Stewart Road

5. References

DEC (2009) Letter supporting retention of limestone drill pad sites. Advice to Assessing Officer, Native Vegetation Assessment Branch, received 12/08/2009. Swan Coastal District, Department of Environment and Conservation, Western Australia (TRIM DOC93249).

Department of Environment and Conservation 2007 letter to Department of Water regarding Gngangara north groundwater investigation program.

Department of Natural Resources and Environment (2002) Biodiversity Action Planning. Action planning for native biodiversity at multiple scales; catchment bioregional, landscape, local. Department of Natural Resources and Environment, Victoria.

Department of Water (2009) Request to remove revegetation conditions 7(b)(i) and (ii), 7(c), 7(d) and 8(b) from Clearing Permit CPS 1243/1. Department of Water, Western Australia (TRIM DOC93368).

Ecoscape 2007 Environmental Management Plan and Botanical Survey - Gngangara North Department of Water.

Hill, A.L., Semenuik, C. A, Semenuik, V. Del Marco, A. (1996) Wetlands of the Swan Coastal Plain. Volume 2b, Wetland mapping, classification and evaluation. Wetland Atlas. WRC and DEP. Perth WA.

Hopkins, A.J.M., Beeston, G.R. and Harvey J.M. (2001) A database on the vegetation of Western Australia. Stage 1. CALMScience after J. S. Beard, late 1960's to early 1980's Vegetation Survey of Western Australia, UWA Press.

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, Extent, Type and Status. Resource Management Technical Report 249. Department of Agriculture, Western Australia.

6. 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)