

# **Clearing Permit Decision Report**

# 1. Application details

# 1.1. Permit application details

Permit application No.: 6486/2
Permit type: Purpose

1.2. Proponent details

Proponent's name: Tronox Management Pty Ltd

1.3. Property details

Property: Mining Lease 70/1204

Mining Lease 70/1207 Mining Lease 70/1213 Mining Lease 70/1214 Mining Lease 70/1215

Local Government Area: Shire of Irwin

Colloquial name: Dongara Exploration Project

1.4. Application

Clearing Area (ha) No. Trees Method of Clearing For the purpose of: 3.97 Mechanical Removal Mineral Exploration

1.5. Decision on application

Decision on Permit Application: Grant

Decision Date: 14 April 2016

# 2. Site Information

# 2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description Beard vegetation associations have been mapped for the whole of Western Australia. The following Beard

vegetation associations are located within the application areas (CPS 6048/2):

378: Shrublands; scrub-heath with scattered Banksia spp., Eucalyptus todtiana and Xylomelum angustiofolium on

deep sandy flats in the Geraldton Sandplain Region;

379: Shrublands;scrub-heath on lateritic sandplain in the Geraldton Sandplain Region

392: Shrublands; Melaleuca thyoides thicket.

Clearing Description Dongara Exploration Project.

Tronox Management Pty Ltd (Tronox) proposes to clear up to 3.97 hectares of native vegetation within a total

boundary of approximately 7.88 hectares, for the purpose of mineral exploration. The project is located

approximately 30 kilometres south-east of Dongara, in the Shire of Irwin.

**Vegetation Condition** Very Good: Vegetation structure altered; obvious signs of disturbance (Keighery, 1994).

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Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Kieghery,

1994).

Comment Vegetation condition was based on vegetation descriptions provided by Woodman Environmental Consulting

(2016).

Clearing permit CPS 6486/1 was granted by the Department of Mines and Petroleum on 16 April 2015, authorising

the clearing of up to 3.7 hectares of native vegetation within a boundary of approximately 12.12 hectares.

On 12 February 2016, the permit holder applied to amend CPS 6486/1 to increase the area approved to clear by

0.27 hectares, amend the permit boundary, and amend the tenements on which clearing is authorised.

### 3. Assessment of application against clearing principles

#### Comments

The proposed clearing of up to 3.97 hectares relates to a portion of the total planned drilling as part of the Dongara Exploration Programme (Woodman Environmental Consulting, 2016). CPS 6486/1 was granted on 16 April 2015, approving the clearing of up to 3.7 hectares on tenements M 70/1204, M 70/1207, M 70/1208, M 70/1209, and M 70/1215.

On 17 November 2015 tenements M 70/1205, M 70/1208 and M 70/1209 were surrendered by Tronox. As clearing may only occur on live tenure these tenements have been removed from the permit. Tronox has since applied to increase the area to be cleared by 0.27 hectares from 3.7 to 3.97 hectares (CPS 6486/2).

Due to the presence of new areas (0.27 hectares) as well as a reduced portion of the original permit area (2.03 hectares), the following decision report assesses the entire permit boundary of 7.88 hectares (CPS 6486/2).

A botanical survey of the application area was undertaken from 3-7 November 2014. The survey identified the Threatened flora species *Paracaleana dixonii* within the application area (Woodman Environmental Consulting, 2015). Advice from DPaW (2015a; 2016a) is that the proposed clearing is not likely to have a significant impact on this species at a local or regional level. A previous licence to take application in association with CPS 6486/1 approved the removal of two individuals of *Paracaleana dixonii* and potential impacts to up to 16 individuals (DPaW, 2015a). A licence to take application for CPS 6486/2 (for the additional 0.27 hectares) was approved by DPaW for the removal of an additional two individuals of *Paracaleana dixonii* and potential inadvertent impacts for up to 22 individuals (DPaW, 2016a).

The original assessment for CPS 6486/1 identified nine species of Priority flora within the application area; Lasiopetalum ogilvieanum (Priority 1), Schoenus sp. Eneabba (Priority 2), Guichenotia alba (Priority 3), Heamodorum Ioratum (Priority 3), Hemiandra sp. Eneabba (Priority 3), Persoonia rudis (Priority 3), Schoenus griffinianus (Priority 3), Banksia scabrella (Priority 4) and Stawellia dimorphantha (Priority 4). DPaW (2015b) advised that out of these species, impacts to Lasiopetalum ogilvieanum, Schoenus sp. Eneabba and Heamodorum Ioratum may be of conservation significance (DPaW, 2015b). However the small area of clearing proposed was determined not likely to have a significant impact on these species (DPaW, 2015b). Within the additional 0.27 hectares proposed under CPS 6486/2 four individuals of Priority flora were identified (Woodman Environmental Consulting, 2016):

- One occurrence including one individual of Heamodorum loratum;
- One occurrence including one individual of Hemiandra sp. Eneabba; and
- One occurrence including two individuals of Schoenus griffinianus

Given the minimal amount of additional Priority flora to be impacted and the presence of individuals in the surrounding area (Woodman Environmental Consulting, 2016) and the removal of tenure form the previous permit, the amendment to increase the area approved to clear by 0.27 hectares is unlikely to impact Priority flora at a regional or local scale.

No Threatened Ecological Communities (TECs) or Priority Ecological Communities (PECs) are known to occur within the application area and none were recorded during a flora and vegetation survey (GIS Database; Woodman Environmental Consulting, 2016). The application area has been mapped as Beard vegetation associations 378, 379, and 392 which all have greater than 50% of pre European extent remaining at a state and bioregional level (Government of Western Australia, 2014). The small scale of clearing proposed is unlikely to have any impacts on surface water or ground water quality, or to lead to significant land degradation.

The proposed clearing is for low impact exploration requiring the clearing of up to 3.97 hectares of which some is located on existing tracks (Woodman Environmental Consulting, 2016). Given the relatively small area of disturbance required for exploration there are unlikely to be any impacts upon significant fauna habitat. No trees are considered to be suitable roosting or nesting habitat for Carnaby's Cockatoo (*Calyptorhynchus latirostris* - Schedule 1; Vulnerable), however, the majority of the vegetation is considered to be foraging habitat (Woodman Environmental Consulting, 2016). This habitat is widespread in the local area and the proposed clearing is not likely to have an impact on availability of foraging habitat in the region.

Dieback has the potential to occur within the application area. Tronox has strict hygiene procedures in place including the requirement for dieback interpretation and risk mapping. In addition Tronox operate under an Exploration Environmental Management Plan which identifies that where there is a requirement to move soil in wet conditions, additional hygiene measures must be implemented. These additional measures require tenements to be operated using a clean on entry and exit policy and the installation of a mobile wash down unit (Tronox, 2014). Weeds also have the potential to occur within the application area (DPaW, 2016b). Potential impacts to biodiversity as a result of the proposed clearing may be minimised by the implementation of a weed and dieback management condition.

The application area crosses one area identified as a seasonal dampland (GIS Database, Woodman Environmental Consulting, 2015). As the proposed method of clearing is by rolling over the vegetation it is unlikely there will be significant impacts to watercourses in the local area.

The application area has been assessed against the clearing principles, planning instruments and other matters in accordance with s.510 of the *Environmental Protection Act 1986*, and the proposed clearing is at variance to Principles (c) and (f), is not likely to be at variance to Principles (a), (b), (d), (g), (h), (i), and (j) and is not at variance to Principle (e).

DPaW (2015a)

DPaW (2015b)

DPaW (2016a)

DPaW (2016b)

Government of Western Australia (2014)

Tronox (2014)

Woodman Environmental Consulting (2015)

Woodman Environmental Consulting (2016)

#### GIS Database:

- DPaW Tenure
- Hydrography, linear
- Pre European Vegetation
- Threatened and Priority Flora List
- Threatened and Priority Ecological Communities Boundaries
- Threatened and Priority Ecological Communities Buffers

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

#### Comments:

There is one native title claim (WC 2004/002) over the area under application (DAA, 2016). This claim has been registered with the Native Title Tribunal on behalf of the claimant group. However, the tenure has been granted in accordance with the future act regime of the *Native Title Act 1993* and the nature of the act (ie. the proposed clearing activity) has been provided for in that process, therefore the granting of a clearing permit is not a future act under the *Native Title Act 1993*.

There are no registered Sites of Aboriginal Significance located in the area applied to clear (DAA, 2016). It is the proponent's responsibility to comply with the *Aboriginal Heritage Act 1972* and ensure that no Sites of Aboriginal Significance are damaged through the clearing process.

It is the proponent's responsibility to liaise with the Department of Environment Regulation, the Department of Parks and Wildlife and the Department of Water, to determine whether a Works Approval, Water Licence, Bed and Banks Permit, or any other licences or approvals are required for the proposed works.

The clearing permit application was advertised on 14 March 2016 by the Department of Mines and Petroleum inviting submissions from the public. No submissions were received.

Methodology: DAA (2016)

# 4. References

- DAA (2016) Aboriginal Heritage Inquiry System, Department of Aboriginal Affairs, Perth. http://maps.dia.wa.gov.au/AHIS2/. (Accessed 18 March 2016).
- DPaW (2015a) Advice received in relation to Clearing Permit CPS 6486/1 Licence to take. Department of Parks and Wildlife, Western Australia, 1 April 2015.
- DPaW (2015b) Advice received in relation to Clearing Permit CPS 6486/1. Department of Parks and Wildlife, Western Australia, 1 April 2015.
- DPaW (2016a) Advice received in relation to Clearing Permit Application CPS 6486/2 Licence to take. Department of Parks and Wildlife, Western Australia, March 2016.
- DPaW (2016b) NatureMap. Department of Parks and Wildlife. http://naturemap.dec.wa.gov.au (Accessed 18 March 2016) Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Government of Western Australia (2014) 2014 Statewide Vegetation Statistics Incorporating the CAR reserve analysis (Full Report). Department of Environment and Conservation, Western Australia, June 2014.
- Tronox Management (2014) Exploration Environmental Management Plan. Tronox Management Pty Ltd, Western Australia, June 2014.
- Woodman Environmental Consulting (2015) Botanical Survey and Impact Assessment of 2015 Dongara Drill and Access Lines. Report prepared for Tronox Management Pty Ltd, by Woodman Environmental Consulting Pty Ltd, March 2014.
- Woodman Environmental Consulting (2016) Exploration Environmental Assessment 2016. Desktop Review and Risk Assessment. Report prepared for Tronox Management Pty Ltd, by Woodman Environmental Consulting Pty Ltd, January 2016.

# 5. Glossary

#### **Acronyms:**

BoM Bureau of Meteorology, Australian Government

DAA Department of Aboriginal Affairs, Western Australia

DAFWA Department of Agriculture and Food, Western Australia

DEC Department of Environment and Conservation, Western Australia (now DPaW and DER)

DER Department of Environment Regulation, Western Australia

DMP Department of Mines and Petroleum, Western Australia

**DRF** Declared Rare Flora

**DotE** Department of the Environment, Australian Government

**DoW** Department of Water, Western Australia

**DPaW** Department of Parks and Wildlife, Western Australia

DSEWPaC Department of Sustainability, Environment, Water, Population and Communities (now DotE)

EPA Environmental Protection Authority, Western Australia
EP Act Environmental Protection Act 1986, Western Australia

EPBC Act Environment Protection and Biodiversity Conservation Act 1999 (Federal Act)

GIS Geographical Information System ha Hectare (10,000 square metres)

IBRA Interim Biogeographic Regionalisation for Australia

IUCN International Union for the Conservation of Nature and Natural Resources – commonly known as the

World Conservation Union

PEC Priority Ecological Community, Western Australia

RIWI Act Rights in Water and Irrigation Act 1914, Western Australia

TEC Threatened Ecological Community

# **Definitions:**

{DPaW (2015) Conservation Codes for Western Australian Flora and Fauna. Department of Parks and Wildlife, Western Australia}:-

#### T Threatened species:

Published as Specially Protected under the *Wildlife Conservation Act 1950*, listed under Schedules 1 to 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora (which may also be referred to as Declared Rare Flora).

Threatened fauna is that subset of 'Specially Protected Fauna' declared to be 'likely to become extinct' pursuant to section 14(4) of the Wildlife Conservation Act.

**Threatened flora** is flora that has been declared to be 'likely to become extinct or is rare, or otherwise in need of special protection', pursuant to section 23F(2) of the Wildlife Conservation Act.

The assessment of the conservation status of these species is based on their national extent and ranked according to their level of threat using IUCN Red List categories and criteria as detailed below.

# CR Critically endangered species

Threatened species considered to be facing an extremely high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 1 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

# EN Endangered species

Threatened species considered to be facing a very high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 2 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

# VU Vulnerable species

Threatened species considered to be facing a high risk of extinction in the wild. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 3 of the Wildlife Conservation (Specially Protected Fauna) Notice for Threatened Fauna and Wildlife Conservation (Rare Flora) Notice for Threatened Flora.

#### EX Presumed extinct species

Species which have been adequately searched for and there is no reasonable doubt that the last individual has died. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 4 of the Wildlife Conservation (Specially Protected Fauna) Notice for Presumed Extinct Fauna and Wildlife Conservation (Rare Flora) Notice for Presumed Extinct Flora.

# IA Migratory birds protected under an international agreement

Birds that are subject to an agreement between the government of Australia and the governments of Japan (JAMBA), China (CAMBA) and The Republic of Korea (ROKAMBA), and the Bonn Convention, relating to the protection of migratory birds. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 5 of the Wildlife Conservation (Specially Protected Fauna) Notice.

#### CD Conservation dependent fauna

Fauna of special conservation need being species dependent on ongoing conservation intervention to prevent it becoming eligible for listing as threatened. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 6 of the Wildlife Conservation (Specially Protected Fauna) Notice

### OS Other specially protected fauna

Fauna otherwise in need of special protection to ensure their conservation. Published as Specially Protected under the *Wildlife Conservation Act 1950*, in Schedule 7 of the Wildlife Conservation (Specially Protected Fauna) Notice.

#### P Priority species

Species which are poorly known; or

Species that are adequately known, are rare but not threatened, and require regular monitoring. Assessment of Priority codes is based on the Western Australian distribution of the species, unless the distribution in WA is part of a contiguous population extending into adjacent States, as defined by the known spread of locations.

# P1 Priority One - Poorly-known species:

Species that are known from one or a few locations (generally five or less) which are potentially at risk. All occurrences are either: very small; or on lands not managed for conservation, e.g. agricultural or pastoral lands, urban areas, road and rail reserves, gravel reserves and active mineral leases; or otherwise under threat of habitat destruction or degradation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under immediate threat from known threatening processes. Such species are in urgent need of further survey.

# P2 Priority Two - Poorly-known species:

Species that are known from one or a few locations (generally five or less), some of which are on lands managed primarily for nature conservation, e.g. national parks, conservation parks, nature reserves and other lands with secure tenure being managed for conservation. Species may be included if they are comparatively well known from one or more locations but do not meet adequacy of survey requirements and appear to be under threat from known threatening processes. Such species are in urgent need of further survey.

#### P3 Priority Three - Poorly-known species:

Species that are known from several locations, and the species does 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. Species may be included if they are comparatively well known from several locations but do not meet adequacy of survey requirements and known threatening processes exist that could affect them. Such species are in need of further survey.

# P4 Priority Four - Rare, Near Threatened and other species in need of monitoring:

- (a) Rare. Species that 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. These species are usually represented on conservation lands.
- (b) Near Threatened. Species that are considered to have been adequately surveyed and that are close to qualifying for Vulnerable, but are not listed as Conservation Dependent.
- (c) Species that have been removed from the list of threatened species during the past five years for reasons other than taxonomy.

# Principles for clearing native vegetation:

- (a) Native vegetation should not be cleared if it comprises a high level of biological diversity.
- (b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.
- (c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.
- (d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.
- (e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.
- (f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.
- (g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.
- (h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.
- (i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.
- (j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.