ENVIRONMENTAL ASSESSMENT REPORT

Kamona Sand Pit

Goanna Track, Kamona (Mining Lease 12M/2009)

Coffey Plant Hire Pty Ltd

The Board of the Environment Protection Authority
February 2013
### Environmental Assessment Report

<table>
<thead>
<tr>
<th>Proponent</th>
<th>Coffey Plant Hire Pty Ltd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proposal</td>
<td>Sand Extraction</td>
</tr>
<tr>
<td>Location</td>
<td>Goanna Track, Kamona</td>
</tr>
<tr>
<td>NELMS no.</td>
<td>7887</td>
</tr>
<tr>
<td>DA number</td>
<td>DEV2013/3</td>
</tr>
<tr>
<td>File</td>
<td>EN-EM-EV-DE-111784_2</td>
</tr>
<tr>
<td>Document</td>
<td>H122144</td>
</tr>
<tr>
<td>Class of Assessment</td>
<td>2A</td>
</tr>
</tbody>
</table>

### Assessment process milestones

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>24/9/2009</td>
<td>Notice of Intent submitted</td>
</tr>
<tr>
<td>28/10/2009</td>
<td>EER Guidelines issued</td>
</tr>
<tr>
<td>28/11/2012</td>
<td>Permit application submitted to Council</td>
</tr>
<tr>
<td>18/1/2013</td>
<td>Application received by Board</td>
</tr>
<tr>
<td>26/1/2013</td>
<td>Start of public consultation period</td>
</tr>
<tr>
<td>10/2/2013</td>
<td>End of public consultation period</td>
</tr>
</tbody>
</table>
This report provides an environmental impact assessment of Coffey Plant Hire Pty Ltd’s proposed expansion of an existing Level 1 sand extraction operation.

The proposal involves the extraction and screening of up to 20,000 cubic metres per annum of sand from mining lease 12M/2009, near Kamona.

This report has been prepared based on information provided by the proponent in the Environmental Effects Report (EER). The advice of relevant Government Agencies and the public has also been sought and considered as part of this assessment.

Background to the proposal and details of the assessment process are presented in Section 1 of this report. Section 2 describes the context of this assessment. Details of the proposal are contained in Section 3. Section 4 reviews alternative sites and management options. Section 5 summarises the public and agency consultation process and the key issues raised in that process. Section 6 evaluates environmental issues. The report conclusions are contained in Section 7.

Appendix 1 contains environmental permit conditions for the proposal. Attachment 3 of the permit conditions contains the table of commitments from the DPEMP.
# Table of Contents

1 Approvals process .............................................................................................................. 1  
2 SD objectives and EIA principles ....................................................................................... 2  
3 The proposal .................................................................................................................... 3  
4 Need for proposal and alternatives ................................................................................ 4  
5 Public and agency consultation ....................................................................................... 5  
6 Evaluation of Environmental issues ................................................................................. 6  
7 Conclusions ..................................................................................................................... 15  
8 References ....................................................................................................................... 16  

Appendix 1 Permit Conditions - Environmental .................................................................. 17
1 Approvals process

An application for a permit under the *Land Use Planning and Approvals Act 1993* (LUPA Act) in relation to the proposal was submitted to Dorset Council on 28 November 2012.

The proposal is defined as a ‘level 2 activity’ under Schedule 2 Subsection 5(b) of the *Environmental Management and Pollution Control Act 1994* (EMPC Act), being:

Extractive Pits: the extraction of sand or clay and producing 5 000 cubic metres or more of product per year.

Section 25(1) of the EMPC Act required Council to refer the application to the Board of the Environment Protection Authority (the Board) for assessment under the Act. The application was received by the Board on 18 January 2013.

The assessment has been undertaken by the Director, Environment Protection Authority under delegation from the Board.

The Board required that information to support the proposal be provided in the form of an Environmental Effects Report (EER). Guidelines were issued to the proponent on 28 October 2009.

A draft of the EER was submitted to the EPA for comment prior to its formal submission. A final EER was submitted to Council with the permit application. The EER was released for public inspection for a 14-day period commencing on 26 January 2013. Advertisements were placed in The Saturday Examiner and on the EPA web site. The EER was also referred at this time to relevant government agencies for comment. No public submissions were received.
2 SD objectives and EIA principles

The proposal must be considered by the Director in the context of the sustainable development objectives of the Resource Management and Planning System of Tasmania (RMPS), and in the context of the objectives of the Environmental Management and Pollution Control System (EMPCS) established by the EMPC Act. The functions of the Board are to administer and enforce the provisions of the Act, and in particular to use its best endeavours to protect the environment of Tasmania, and to further the RMPS and EMPCS objectives.

The Director must undertake the assessment of the proposal in accordance with the Environmental Impact Assessment Principles defined in Section 74 of the EMPC Act.
3 The proposal

The main characteristics of the proposal are summarised in Table 1. A detailed description of the proposal is provided in the EER.

Table 1 Key characteristics of the proposal

<table>
<thead>
<tr>
<th>Activity</th>
<th>Extraction of up to 20,000 m(^3) of sand per annum.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location and planning context</td>
<td></td>
</tr>
<tr>
<td>Location</td>
<td>Off Goanna Road, approximately 2.5 km north of the Tasman Highway, and 10 km east of Scottsdale.</td>
</tr>
<tr>
<td>Land zoning</td>
<td>Mixed Rural in the Dorset Planning Scheme 1996.</td>
</tr>
<tr>
<td>Land tenure</td>
<td>State Forest.</td>
</tr>
<tr>
<td>Mining lease</td>
<td>12M/2009.</td>
</tr>
<tr>
<td>Lease area</td>
<td>21 hectares.</td>
</tr>
<tr>
<td>Bond</td>
<td>MRT currently hold a bond for $9,040.</td>
</tr>
<tr>
<td>Existing site</td>
<td></td>
</tr>
<tr>
<td>Land Use</td>
<td>The proponent currently operates a Level 1 extractive pit at the site.</td>
</tr>
<tr>
<td>Topography</td>
<td>The lease is located on the crest of a gentle ridge surrounded by gently sloping land.</td>
</tr>
<tr>
<td>Geology</td>
<td>Mapped as ‘non-marine sequences of gravel, sand, clay and regolith’.</td>
</tr>
<tr>
<td>Soils</td>
<td>Outcropping sand with no developed topsoil horizon. An average of 2.3 metres depth of sand is underlain by a hard pan up to several metres thick which tends to limit extraction to that depth.</td>
</tr>
<tr>
<td>Hydrology</td>
<td>There are no watercourses or wetlands on the site.</td>
</tr>
<tr>
<td>Flora &amp; Fauna</td>
<td>Vegetation is <em>Eucalyptus amygdalina</em> coastal forest and woodland (TASVEG – DAC). No Commonwealth or State listed threatened flora species or fauna habitat have been identified on site. There are no aquatic habitats within 200 m of the mining lease.</td>
</tr>
<tr>
<td>Local region</td>
<td></td>
</tr>
<tr>
<td>Surrounding land and uses</td>
<td>In the general locality there are plantations and other sand mines. Nearest residence is on Jensens Road approximately 1.2 kilometres west of the lease boundary.</td>
</tr>
<tr>
<td>Proposed infrastructure</td>
<td></td>
</tr>
<tr>
<td>Major equipment</td>
<td>Excavator, truck and bulldozer.</td>
</tr>
<tr>
<td>Inputs</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>Water for dust suppression if required.</td>
</tr>
<tr>
<td>Energy</td>
<td>Fuel for machinery/equipment.</td>
</tr>
<tr>
<td>Other raw materials</td>
<td>Nil.</td>
</tr>
</tbody>
</table>
### Wastes and emissions

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid</td>
<td>Stormwater run-off from extraction and stockpile areas.</td>
</tr>
<tr>
<td>Atmospheric</td>
<td>Dust.</td>
</tr>
<tr>
<td>Solid</td>
<td>General litter and inert wastes such as metal waste.</td>
</tr>
<tr>
<td>Noise</td>
<td>From all equipment and handling of material.</td>
</tr>
<tr>
<td>Greenhouse gases</td>
<td>Limited to exhaust from mobile plant and trucks. Mobile plant is of recent manufacture complying with pollution control requirements in extant at the time of manufacture. The equipment is maintained according to the manufacturer’s recommendations.</td>
</tr>
</tbody>
</table>

### Commissioning and operations

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating hours</td>
<td>The proposed hours of operation are 07:00 to 19:00 weekdays; 08:00 to 16:00 Saturdays.</td>
</tr>
<tr>
<td>Project timetable</td>
<td>At the maximum production rate, the project could have a life in excess of twenty years. Operations will be on a campaign basis.</td>
</tr>
</tbody>
</table>

### 4 Need for proposal and alternatives

The proposal is for the expansion of an existing extractive operation, therefore no alternative sites were considered.

The EER states that the increased production capacity will be used to pursue opportunities to sell product to larger production companies as supplementary or back-up suppliers. The increased capacity will also enable Coffey Plant Hire Pty Ltd to pursue further business opportunities in the retail landscaping supplies market.
5 Public and agency consultation

No public representations were received.

The EER was referred to a number of government agencies/bodies with an interest in the proposal. Responses were received from the following:

- Aboriginal Heritage Tasmania (AHT), DPIPWE;
- Policy Conservation and Assessment Branch (PCAB), DPIPWE.
- Mineral Resources Tasmania, DIER;
- Traffic Management Section, DIER;
- Department of Economic Development, Tourism and the Arts

The EER states that the proponent has also undertaken its own consultation process involving discussions with the Dorset Council and the land manager, Forestry Tasmania and that these organisations have not raised any issues outside of those discussed in the EER.
### 6 Evaluation of Environmental issues

The environmental issues considered relevant to the proposal have been evaluated by the EPA Division. Details of this evaluation are shown in the tables below.

<table>
<thead>
<tr>
<th>Issue 1</th>
<th>Atmospheric Emissions (Dust)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description of potential impacts</strong></td>
<td></td>
</tr>
<tr>
<td>Dust emissions from operations and traffic movements have the potential to cause an environmental nuisance.</td>
<td></td>
</tr>
<tr>
<td>Dust may be generated on site by material handling and vehicle movements and from disturbed areas and stockpiles.</td>
<td></td>
</tr>
<tr>
<td>The nearest residence is more than a kilometre distant and screened by dense vegetation. The access road between the site and the highway does not pass any residences.</td>
<td></td>
</tr>
<tr>
<td><strong>Management measures proposed in EER</strong></td>
<td></td>
</tr>
<tr>
<td>• Restrict unrehabilitated areas, and use a water cart for dust suppression.</td>
<td></td>
</tr>
<tr>
<td>• This issue will be controlled to a standard acceptable to the QCOP; dust will not normally be visible crossing the boundary of the premises.</td>
<td></td>
</tr>
<tr>
<td>• Trucks will be tarped to minimise dust generation and spillage. If traffic dust becomes an issue, it can be further reduced by imposing a lower speed limit on trucks.</td>
<td></td>
</tr>
<tr>
<td><strong>Public and agency comment</strong></td>
<td></td>
</tr>
<tr>
<td>No comment received.</td>
<td></td>
</tr>
<tr>
<td><strong>Evaluation</strong></td>
<td></td>
</tr>
<tr>
<td>Given the location of the activity, the access route and the measures proposed in the EER; dust emission is not expected to be a significant impact of this proposal.</td>
<td></td>
</tr>
<tr>
<td>Standard permit conditions requiring the management of dust from operations (condition A1) and trucks (A2) are considered sufficient.</td>
<td></td>
</tr>
<tr>
<td><strong>Conclusion</strong></td>
<td></td>
</tr>
<tr>
<td>That the proponent be required to comply with the following standard permit conditions:</td>
<td></td>
</tr>
<tr>
<td>A1: Control of dust emissions.</td>
<td></td>
</tr>
<tr>
<td>A2: Covering of vehicles.</td>
<td></td>
</tr>
</tbody>
</table>
### Issue 2

**Noise**

**Description of potential impacts**

Noise from operations and traffic movements may cause an environmental nuisance for sensitive uses, such as residences, in the vicinity.

Noise will be generated by all on site equipment: an excavator, a truck and occasionally a dozer for stripping and returning topsoil and slash. There will be no screening on site.

The nearest residence is more than a kilometre distant. The access road from the highway does not pass any residences.

**Management measures proposed in EER**

Working hours will be restricted to 07:00 to 19:00 on weekdays and 08:00 to 16:00 on Saturdays.

**Public and agency comment**

No comment received.

**Evaluation**

Given the location of the site, the transport route, the equipment that is to be used on site and the proposed operating hours; noise emissions are considered unlikely to be a significant impact of this proposal.

The proposed operating hours are consistent with the Quarry Code of Practice (QCOP) and should be formally imposed through a standard permit condition (condition OP1).

**Conclusion**

That the proponent be required to comply with the following standard permit conditions:

OP1: Operating hours.
<table>
<thead>
<tr>
<th><strong>Issue 3</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazardous Substances</strong></td>
</tr>
<tr>
<td><strong>Description of potential impacts</strong></td>
</tr>
<tr>
<td>Potential pollution of land and water through spilt hydrocarbons.</td>
</tr>
<tr>
<td>Any fuels, oils or chemicals will be brought in on a daily, as needed, basis; they will not be stored on site in large quantities or overnight.</td>
</tr>
<tr>
<td>Vehicle and plant servicing will, wherever possible, be undertaken off site.</td>
</tr>
<tr>
<td>At any time there will be a maximum of two items of plant on site typically an excavator and a truck. The maximum diesel fuel on site contained within their tanks will be 500 to 1,000 litres, plus several hundred litres of oils and hydraulic fluids.</td>
</tr>
<tr>
<td><strong>Management measures proposed in EER</strong></td>
</tr>
<tr>
<td>• The plant is maintained according to manufacturer’s standards in order to minimise the risks of a spill.</td>
</tr>
<tr>
<td>• A hydrocarbon spill kit will be kept on site.</td>
</tr>
<tr>
<td>• Only one item of plant will be on site after hours, with hydrocarbon tanks locked to minimise the risks of pilfering and the potential for spillage.</td>
</tr>
<tr>
<td><strong>Public and agency comment</strong></td>
</tr>
<tr>
<td>No comments received.</td>
</tr>
<tr>
<td><strong>Evaluation</strong></td>
</tr>
<tr>
<td>Any hazardous substances should be stored in appropriately bunded areas (condition H1) and spill kits should be kept on site to allow clean-up of any spills (condition H2).</td>
</tr>
<tr>
<td><strong>Conclusion</strong></td>
</tr>
<tr>
<td>That the proponent be required to comply with the following standard permit conditions:</td>
</tr>
<tr>
<td>H1: Storage and handling of hazardous substances</td>
</tr>
<tr>
<td>H2: Spill kits</td>
</tr>
</tbody>
</table>
### Issue 4

**Stormwater**

**Description of potential impacts**

The proposal has the potential to impact on the quality of water through sedimentation, turbidity and spillages of hydrocarbons.

There are no defined water bodies within 200 m of the boundary of the proposed lease area.

The sand mine is located on the crest of a gentle ridge line, in sandy terrain with a low run-off coefficient, and a very small catchment.

**Management measures proposed in EER**

It is not proposed to install a formal stormwater management system of settling ponds owing to the free draining nature of the material. However, if run-off does occur, then sediment ponds will be installed on any developing drainage lines to a standard to retain a one in 10 year, 24hr storm event (Commitment 2).

**Public and agency comment**

No comment received.

**Evaluation**

Given the nature of this activity, it is considered reasonable that the proponent does not propose to install a formal stormwater system unless conditions require it. Standard permit conditions relating to the management of stormwater (conditions SW1 and SW2) are considered appropriate as they require measures to be applied only as necessary.

**Conclusion**

That the proponent be required to comply with the following standard permit conditions:

- **SW1:** Perimeter drains
- **SW2:** Stormwater
Issue 5

Threatened Species/Flora and fauna habitat

Description of potential impacts

Loss of threatened flora through vegetation clearance and soil removal and the subsequent impacts on threatened fauna through loss of habitat and disturbance.

A flora and fauna survey was undertaken and the report included as Appendix 1 of the EER. Owing to a survey error the entire lease was not surveyed.

Vegetation is *Eucalyptus amygdalina* coastal forest and woodland (TASVEG -DAC) which is not listed as a threatened community under Schedule 3 of the *Nature Conservation Act 2002*.

No threatened species, listed under the *Threatened Species Protection Act 1995* (TSPA) or the *Environment Protection and Biodiversity Conservation Act 1999* (EPBCA), were recorded.

Grasstrees (*Xanthorrhoea australis*) are widespread and locally common within the proposed lease area.

Management measures proposed in EER

Where practical, retain clumps of *Xanthorrhoea australis* in a network of informally applied reserves as per the recommendations contained in the flora and fauna report (Commitment 3).

The area of the mining lease missed by the survey will not be mined until a flora and fauna survey of the area is completed (Commitment 7).

Public and agency comment

PCAB advised that a permit condition be included to formalise the commitment not to disturb the area of the mining lease not included in the survey until a new survey has been undertaken.

Evaluation

The measures outlined in the EER are considered appropriate and, as recommended by PCAB, a permit condition should be included preventing the disturbance of any unsurveyed area of the mining lease (condition FF1).

The commitment in the EER to, where practicable, protect individuals of *Xanthorrhoea australis* this species is supported. The proponent should be required to comply with this commitment (condition G10).

Conclusion

That the proponent be required to comply with the following standard permit conditions:

G10: Commitments.

That the proponent be required to comply with the following non-standard permit conditions:

FF1: No further disturbance without approval.
### Issue 6

#### Weed and Disease

**Description of potential impacts**

The spread of invasive weeds and diseases throughout, to and from the site via the disturbance and movement of soil, material and machinery.

The flora and fauna report stated that some evidence of *Phytophthora cinnamomi* (PC) was noted in a limited part of the study area. However, no formal testing for the pathogen has been undertaken.

One species, Montpellier broom (*Genista monspessulana*), classified as a declared weed under the *Weed Management Act 1999*, was located within the study area.

#### Management measures proposed in EER

- Minimise the area of native vegetation cleared at any one point to minimise the opportunities for establishment of invasive weed species (Commitment 1).
- Instigate a weed management program to control weeds (Commitment 5).

#### Public and agency comment

PCAB advised that based on the findings of the ecological report and given the survey was conducted in 2009, a detailed and formalised weed management and hygiene plan should be developed for the site and it should include a commitment to: survey for weed species prior to commencement of the proposed expanded operation; and undertake soil testing for PC to determine if it is present on the site and to inform the management of the site.

#### Evaluation

The site should be maintained substantially weed free (standard condition OP2). Details of how this will be achieved on an ongoing basis and how hygiene measures will be implemented should be formalised through the preparation of a Weed Management and Hygiene Plan (non-standard condition FF2).

#### Conclusion

That the proponent be required to comply with the following standard permit conditions:

- OP2: Weed Management
- FF2: Weed Management and Hygiene Plan
<table>
<thead>
<tr>
<th>Issue 7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heritage</td>
</tr>
<tr>
<td><strong>Description of potential impacts</strong></td>
</tr>
<tr>
<td>Loss of Aboriginal and/or European cultural heritage through disturbance. Two historical sites exist in the general locality, the Goanna Track Tin Mine and the Arnon River Farm. These sites are more than a kilometre from the lease boundary. The EER states that the project is not visible from either site, and will have no impact on these historical features.</td>
</tr>
<tr>
<td><strong>Management measures proposed in EER</strong></td>
</tr>
<tr>
<td>Report any finds of Aboriginal artefacts immediately to Aboriginal Heritage Tasmania. Apply the Unanticipated Discovery Plan if any human remains are located (Commitment 6).</td>
</tr>
<tr>
<td><strong>Public and agency comment</strong></td>
</tr>
<tr>
<td>AHT advised that there is no need for an Aboriginal Heritage assessment of the area but noted that the Environmental Effects Report stated “Coffey Plant Hire will … instigate the recommended “Unanticipated Discovery Plan” for any discovery of human remains”. AHT advised that that an Unanticipated Discovery Plan (UDP) is used for ANY and ALL Aboriginal heritage discovered during the development, it is not restricted to the discovery of human remains.</td>
</tr>
<tr>
<td><strong>Evaluation</strong></td>
</tr>
<tr>
<td>Impacts on heritage matters are considered unlikely to result from this proposal.</td>
</tr>
<tr>
<td><strong>Conclusion</strong></td>
</tr>
<tr>
<td>No permit conditions required. Information on the <em>Aboriginal Relics Act 1975</em> should be included in the Information Schedule of the permit conditions.</td>
</tr>
</tbody>
</table>
**Issue 8**

**Waste Management**

**Description of potential impacts**

Inappropriate storage and disposal of waste has the potential to cause environmental harm or nuisance.

The proposal will not produce or result in solid wastes. If screening is introduced, the rejected material will simply consist of oversize sand / small gravel and vegetative matter.

**Management measures proposed in EER**

- If screening occurs vegetative material will be returned to the land as part of the rehabilitation process.
- If equipment servicing is required on site, this will be done with the utmost diligence, with the service vehicle removing used oil off site for recycling, and filters / grease cartridges for disposal.

**Public and agency comment**

No comment received.

**Evaluation**

Waste management is not considered a significant issue for this activity.

**Conclusion**

No permit conditions required.
### Issue 9

**Decommissioning and Rehabilitation**

**Description of potential impacts**

Lack of appropriate rehabilitation may cause future degradation of the natural values of the site and may cause environmental harm or nuisance.

**Management measures proposed in EER**

- The extraction will be undertaken in panels, with a maximum of a year’s supply of sand being exposed at any one time. The disturbed area will be limited to 0.75 hectares at any time.
- Topsoil will be stockpiled in accordance with the QCOP, with topsoil being handled as little as possible and stored in low windrows.
- Rehabilitation will commence as soon as practicable after sand extraction. With stockpiled soil and slash being spread over the worked out area.
- Depending on the success of self-sowing after the return of the slash, it may be necessary to spread some seed (subject to Forestry Tasmania approval) to improve the quality of the rehabilitation with the long term plan being to return the site to native forest.

**Public and agency comment**

PCAB advised that the extraction of sand to the hardpan layer may not provide a suitable substrate for natural revegetation and therefore the success of rehabilitated areas should be monitored within 2 years to determine if active rehabilitation is required.

**Evaluation**

The measures outlined in the EER are considered appropriate and are in accordance with the Quarry Code of Practice. Standard permit conditions relating to decommissioning and rehabilitation are considered appropriate (conditions DC1, DC2, DC3, DC4, DC5).

It is part of the regulatory role of the EPA Division to monitor the success of progressive rehabilitation; therefore no permit condition is considered necessary in relation to this issue.

**Conclusion**

That the proponent be required to comply with the following standard permit conditions:

<table>
<thead>
<tr>
<th>Permit Condition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC1</td>
<td>Notification of cessation</td>
</tr>
<tr>
<td>DC2</td>
<td>Stockpiling of surface soil</td>
</tr>
<tr>
<td>DC3</td>
<td>Progressive Rehabilitation</td>
</tr>
<tr>
<td>DC4</td>
<td>Rehabilitation on cessation</td>
</tr>
<tr>
<td>DC5</td>
<td>Temporary suspension of activity</td>
</tr>
</tbody>
</table>
8 References


7 Conclusions

This assessment has been based upon the information provided by the proponent in the permit application and EER.

This assessment has incorporated specialist advice provided by government agencies in relation to a number of key issues.

It is concluded that:

1. the RMPS and EMPCS objectives have been duly and properly pursued in the assessment of the proposal; and

2. the assessment of the proposal has been undertaken in accordance with the Environmental Impact Assessment Principles.

It is concluded that the proposal is capable of being managed in an environmentally acceptable manner such that it is unlikely that the RMPS and EMPCS objectives would be compromised, provided that the Permit Conditions – Environmental No. 7887 appended to this report are imposed and duly complied with, including commitments made by the proponent in the EER.

Report approval

| Environmental Assessment Report and conclusions, including permit conditions, accepted: |
| Alex Schaap |
| Director, Environment Protection Authority |
| Under delegation from the Board of the Environment Protection Authority |
| Date: 25 February 2013 |
Appendix 1  Permit Conditions - Environmental
PERMIT PART B
PERMIT CONDITIONS - ENVIRONMENTAL No. 7887

Issued under the Environmental Management and Pollution Control Act 1994

Applicant: COFFEY PLANT HIRE PTY LTD
ACN 107 235 674
60 MOBIL RD
BELL BAY TAS 7253

Activity: The operation of a sand extraction pit (ACTIVITY TYPE: Extractive Pits)
KAMONA SAND PIT, OFF GOANNA RD
KAMONA TAS 7260

The above activity has been assessed as a level 2 activity under the Environmental Management and Pollution Control Act 1994 under delegation from the Board of the Environment Protection Authority.

Acting under Section 25(5)(a)(i) of the EMPCA, the Board of the Environment Protection Authority has required that this Permit Part B be included in any Permit granted under the Land Use Planning and Approvals Act 1993 with respect to the above activity.

Municipality: DORSET
Permit Application Reference: DEV 2013_3
EPA file reference: 111784

Date conditions approved: 25 FEB 2013

Signed: DIRECTOR, ENVIRONMENT PROTECTION AUTHORITY
DEFINITIONS

Unless the contrary appears, words and expressions used in this Permit Part B have the meaning given to them in Schedule 1 of this Permit and in the EMPCA. If there is any inconsistency between a definition in the EMPCA and a definition in this Permit Part B, the EMPCA prevails to the extent of the inconsistency.

ENVIRONMENTAL CONDITIONS

The person responsible for the activity must comply with the conditions contained in Schedule 2 of this Permit Part B.

INFORMATION

Attention is drawn to Schedule 3, which contains important additional information.
# Table Of Contents

Schedule 1: Definitions ............................................................................................................. 4

Schedule 2: Conditions............................................................................................................. 5

Maximum Quantities .................................................................................................................. 5

Q1 Regulatory limits .................................................................................................................. 5

General .................................................................................................................................... 5

G1 Compliance with EMP and BPEM .................................................................................... 5

G2 Access to and awareness of conditions and associated documents .......................... 5

G3 Incident response ............................................................................................................... 5

G4 No changes without approval ......................................................................................... 5

G5 Change of responsibility .................................................................................................. 5

G6 Change of ownership ........................................................................................................ 5

G7 Notification prior to commencement ............................................................................. 6

G8 Complaints register .......................................................................................................... 6

G9 Quarry Code of Practice .................................................................................................. 6

G10 Commitments .................................................................................................................. 6

Atmospheric ................................................................................................................................ 6

A1 Control of dust emissions ................................................................................................. 6

A2 Covering of vehicles .......................................................................................................... 6

Decommissioning And Rehabilitation ..................................................................................... 6

DC1 Notification of cessation ................................................................................................. 6

DC2 Stockpiling of surface soil ............................................................................................... 6

DC3 Progressive rehabilitation ............................................................................................... 7

DC4 Rehabilitation on cessation ............................................................................................. 7

DC5 Temporary suspension of activity ................................................................................... 7

Flora And Fauna ....................................................................................................................... 7

FF1 Natural Values Survey Required .................................................................................. 7

FF2 Weed Management and Hygiene Plan ......................................................................... 8

Hazardous Substances ............................................................................................................ 8

H1 Storage and handling of hazardous materials ................................................................ 8

H2 Spill kits ............................................................................................................................ 8

Operations ............................................................................................................................... 8

OP1 Operating hours .............................................................................................................. 8

OP2 Weed management ......................................................................................................... 8

Stormwater ............................................................................................................................. 9

SW1 Perimeter drains ............................................................................................................. 9

SW2 Stormwater ................................................................................................................... 9

Schedule 3: Information .......................................................................................................... 10

Legal Obligations .................................................................................................................... 10

LO1 Notification of incidents under section 32 of EMPCA .................................................. 10

LO2 EMPCA .......................................................................................................................... 10

LO3 Storage and handling of Dangerous Goods and Dangerous Substances ..................... 10

LO4 Aboriginal relics requirements ....................................................................................... 11

LO5 Change of responsibility ............................................................................................... 11

## Attachments

Attachment 1: The Land (modified: 12/02/2013 14:17) ....................................................... 1 page

Attachment 2: Area to be Disturbed (modified: 13/02/2013 14:21) ..................................... 1 page

Attachment 3: Management Commitments (modified: 13/02/2013 11:33) ......................... 1 page
Schedule 1: Definitions

In this Permit Part B:-

**Aboriginal Relic** has the meaning described in section 2(3) of the *Aboriginal Relics Act 1975*.

**Activity** means any environmentally relevant activity (as defined in Section 3 of EMPCA) to which this document relates, and includes more than one such activity.

**Authorized Officer** means an authorized officer under section 20 of EMPCA.

**Best Practice Environmental Management** or **'BPEM'** has the meaning described in Section 4 of EMPCA.

**Director** means the Director, Environment Protection Authority holding office under Section 18 of EMPCA and includes a person authorised in writing by the Director to exercise a power or function on the Director's behalf.

**EMP** means the *Environmental Effects Report - Kamona Sandpit ML 12M/2009 - Coffey Plant Hire Pty Ltd* prepared by Nigel Beeke dated October 2012 and includes any amendment to or substitution of this document, approved in writing by the Director.

**EMPCA** means the *Environmental Management and Pollution Control Act 1994*.

**Environmental Harm** and **Material Environmental Harm** and **Serious Environmental Harm** each have the meanings ascribed to them in Section 5 of EMPCA.

**Environmental Nuisance** and **Pollutant** each have the meanings ascribed to them in Section 3 of EMPCA.

**Environmentally Hazardous Material** means any substance or mixture of substances of a nature or held in quantities which present a reasonably foreseeable risk of causing serious or material environmental harm if released to the environment and includes fuels, oils, waste and chemicals.

**Guidelines For Natural Values Assessment** means the document of this title published by the Department of Primary Industries, Parks, Water and Environment in July 2009 and includes any subsequent versions of this document.

**Person Responsible** is any person who is or was responsible for the environmentally relevant activity to which this document relates and includes the officers, employees, contractors, joint venture partners and agents of that person, and includes a body corporate.

**Quarry Code Of Practice** means the document of this title published by the Department of Primary Industries, Water and Environment and the Department of Infrastructure, Energy and Resources in June 1999, and includes any subsequent versions of this document.

**Stormwater** means water traversing the surface of the land as a result of rainfall.

**The Land** means the land on which the activity to which this document relates may be carried out, and includes: buildings and other structures permanently fixed to the land, any part of the land covered with water, and any water covering the land. The Land falls within the area defined by:

1. Mining Lease 12M/2009 as shown in Attachment 1.

**Weed** means a declared weed as defined in the *Weed Management Act 1999*. 

DIRECTOR, ENVIRONMENT PROTECTION AUTHORITY

25 FEB 2013
Schedule 2: Conditions

**Maximum Quantities**

**Q1 Regulatory limits**

1. The activity must not exceed the following limits:
   
   1.1 20,000 cubic metres per year of product produced. (Annual fees are derived from this figure.)

**General**

**G1 Compliance with EMP and BPEM**

The Land must be developed and used, and the activity on The Land must be carried out and monitored, in accordance with the environmental management measures set down in the Environmental Management Plan ('EMP'), and in accordance with best practice environmental management, unless otherwise specified in these conditions or contrary to EMPCA.

**G2 Access to and awareness of conditions and associated documents**

A copy of these conditions and any associated documents referred to in these conditions must be held in a location that is known to and accessible to the person responsible for the activity. The person responsible for the activity must ensure that all persons who are responsible for undertaking work on The Land, including contractors and sub-contractors, are familiar with these conditions to the extent relevant to their work.

**G3 Incident response**

If an incident causing or threatening environmental nuisance, serious environmental harm or material environmental harm from pollution occurs in the course of the activity, then the person responsible for the activity must immediately take all reasonable and practicable action to minimise any adverse environmental effects from the incident.

**G4 No changes without approval**

1. The following changes, if they may cause or increase the emission of a pollutant which may cause material or serious environmental harm or environmental nuisance, must only take place in relation to the activity if such changes have been approved in writing by the EPA Board following its assessment of an application for a permit under the Land Use Planning and Approvals Act 1993, or approved in writing by the Director:
   
   1.1 a change to a process used in the course of carrying out the activity; or
   
   1.2 the construction, installation, alteration or removal of any structure or equipment used in the course of carrying out the activity; or
   
   1.3 a change in the quantity or characteristics of materials used in the course of carrying out the activity.

**G5 Change of responsibility**

If the person who is or was responsible for the activity ceases to be responsible for the activity, they must notify the Director in accordance with Section 45 of the EMPCA.

**G6 Change of ownership**

If the person responsible for the activity is not the owner of The Land upon which the activity is carried out and the owner of The Land changes or is to change, then, as soon as reasonably practicable but no later than 30 days after becoming aware of the change, the person responsible must notify the Director in writing of the change of ownership.

25 FEB 2013
G7 Notification prior to commencement
The Director must be notified in writing of the commencement of operations at least 14 days before that occurs.

G8 Complaints register
1 A public complaints register must be maintained and made available for inspection by an Authorized Officer upon request. The public complaints register must, as a minimum, record the following detail in relation to each complaint received in which it is alleged that environmental harm (including an environmental nuisance) has been caused by the activity:
   1.1 the time at which the complaint was received;
   1.2 contact details for the complainant (where provided);
   1.3 the subject-matter of the complaint;
   1.4 any investigations undertaken with regard to the complaint; and
   1.5 the manner in which the complaint was resolved, including any mitigation measures implemented.
2 Complaint records must be maintained for a period of at least 3 years.

G9 Quarry Code of Practice
Unless otherwise required by these conditions or required in writing by the Director, the activity (or activities) undertaken on The Land must comply with the Acceptable Standards provisions of the Quarry Code of Practice.

G10 Commitments
The activity must be carried out in accordance with the commitments contained in Attachment 3 unless otherwise specified in these conditions or unless otherwise approved in writing by the Director.

Atmospheric

A1 Control of dust emissions
Dust emissions from The Land must be controlled to the extent necessary to prevent environmental nuisance.

A2 Covering of vehicles
Vehicles carrying loads containing material which may blow or spill must be equipped with effective control measures to prevent the escape of the materials from the vehicles when they leave The Land or travel on public roads. Effective control measures may include tarpaulins and load dampening.

Decommissioning And Rehabilitation

DC1 Notification of cessation
Within 30 days of becoming aware of any event or decision which is likely to give rise to the permanent cessation of the activity, the person responsible for the activity must notify the Director in writing of that event or decision. The notice must specify the date upon which the activity is expected to cease or has ceased.

DC2 Stockpiling of surface soil
Prior to commencement of extractive activities on any portion of The Land all surface soils must be removed and stockpiled for later use in rehabilitation of The Land. Topsoil must be kept separate from other overburden and protected from erosion or other disturbance.

DIRECTOR, ENVIRONMENT PROTECTION AUTHORITY

25 FEB 2013
DC3  Progressive rehabilitation
Worked out or disused sections of The Land must be rehabilitated concurrently with extractive activities on other sections of The Land. Progressive rehabilitation must be carried out in accordance with the relevant provisions of the Quarry Code of Practice, unless otherwise approved in writing by the Director. The maximum disturbed area of land which may remain, at any time, without rehabilitation is 0.75 hectares.

DC4  Rehabilitation on cessation
1. Unless otherwise approved in writing by the Director, rehabilitation upon permanent cessation of the activity must be undertaken in accordance with relevant provisions of the Quarry Code of Practice and in accordance with the following:
   1.1 rehabilitation earthworks must be substantially completed within 12 months of cessation of the activity; and
   1.2 rehabilitated areas must be monitored and maintained for a period of at least three years after rehabilitation works have been substantially completed, after which time the person responsible for the activity may apply in writing to the Director for a written statement that rehabilitation has been successfully completed.

DC5  Temporary suspension of activity
1. Within 30 days of becoming aware of any event or decision which is likely to give rise to the temporary suspension of the activity, the person responsible for the activity must notify the Director in writing of that event or decision. The notice must specify the date upon which the activity is expected to suspend or has suspended.
2. During temporary suspension of the activity:
   2.1 The Land must be managed and monitored by the person responsible for the activity to ensure that emissions from The Land do not cause serious environmental harm, material environmental harm or environmental nuisance; and
   2.2 If required by the Director, the person responsible must prepare and implement a Care and Maintenance Plan to the satisfaction of the Director.
3. Unless otherwise approved in writing by the Director, if the activity on The Land has substantially ceased for 2 years or more, rehabilitation of The Land must be carried out in accordance with the requirements of these conditions as if the activity has permanently ceased.

Flora And Fauna

FF1  Natural Values Survey Required
1. Unless otherwise specified by the Director in writing, no land must be disturbed within 10 metres of the area of the Land shown in Attachment 2 as 'area not to be disturbed'.
2. At least 30 days prior to disturbance of the area of the Land shown in Attachment 2 as 'area not to be disturbed', or by a date specified in writing, by the Director:
   2.1 a natural values assessment of the area of the Land shown in Attachment 2 as 'area not to be disturbed' must be conducted;
   2.2 the survey must be undertaken in accordance with the Guidelines for Natural Values Assessment;
   2.3 a report outlining the findings of the assessment must be submitted to the Director.
FF2 Weed Management and Hygiene Plan

1 Unless otherwise specified by the Director in writing, a Weed Management and Hygiene Plan for the activity must be submitted to the Director, within 6 months of these conditions taking effect.

1.1 The Weed and Disease Management Plan must include, as a minimum:

1.1.1 the results of a weed and disease survey, including soil testing for Phytophthora cinnamomi if symptoms of this disease are observed;
1.1.2 washdown procedures and measures including the location of and management of washdown facilities;
1.1.3 strategies for the ongoing monitoring of weeds and diseases;
1.1.4 strategies for the ongoing management of weeds and diseases;
1.1.5 measures to prevent the spread of weeds and diseases from The Land; and
1.1.6 a timetable for the implementation of measures included in the plan.

2 The Weed and Disease Management Plan must be prepared and implemented to the satisfaction of the Director.

Hazardous Substances

H1 Storage and handling of hazardous materials
Unless otherwise approved in writing by the Director, environmentally hazardous material held on The Land, including chemicals, fuels and oils, must be located within impervious bunded areas or spill trays which are designed to contain at least 110% of the total volume of material.

H2 Spill kits
Spill kits appropriate for the types and volumes of materials handled on The Land must be kept in appropriate locations to assist with the containment of spilt environmentally hazardous materials.

Operations

OP1 Operating hours

1 Unless otherwise approved by the Director, activities associated with the extraction of rock, gravel, sand, clay or minerals, and loading of product, and screening/crushing must not be undertaken outside the hours of 0700 hours to 1900 hours on weekdays and 0800 hours to 1600 hours on Saturdays.

2 Notwithstanding the above paragraph, activities must not be carried out on Sundays and public holidays that are observed Statewide (Easter Tuesday excepted).

OP2 Weed management
The Land must be kept substantially free of weeds to minimise the risk of weeds being spread through the transport of products from The Land.
Stormwater

SW1 Perimeter drains

1 Perimeter cut-off drains must be constructed at strategic locations on The Land to prevent surface run-off from entering the area used or disturbed in carrying out the activity. All reasonable measures must be implemented to ensure that sediment transported along these drains remains on The Land. Such measures may include provision of strategically located sediment fences, appropriately sized and maintained sediment settling ponds, vegetated swales, detention basins and other measures designed and operated in accordance with the principles of Water Sensitive Urban Design.

2 Drains must have sufficient capacity to contain run-off that could reasonably be expected to arise during a 1 in 20 year rainfall event. Maintenance activities must be undertaken regularly to ensure that this capacity does not diminish.

SW2 Stormwater

1 Polluted stormwater that will be discharged from The Land must be collected and treated prior to discharge to the extent necessary to prevent serious or material environmental harm, or environmental nuisance.

2 Notwithstanding the above, all stormwater that is discharged from The Land must not carry pollutants such as sediment, oil and grease in quantities or concentrations that are likely to degrade the visual quality of any receiving waters outside the Land.

3 All reasonable measures must be implemented to ensure that solids entrained in stormwater are retained on The Land. Such measures may include appropriately sized and maintained sediment settling ponds or detention basins.

4 Stormwater discharged in accordance with this condition must not be directed to sewer without the approval of the operator of the sewerage system.
Schedule 3: Information

Legal Obligations

LO1 Notification of incidents under section 32 of EMPCA

1 A person responsible for an activity that is not a level 2 activity or a level 3 activity must notify the relevant Council, as soon as reasonably practicable but not later than 24 hours, after becoming aware of the release of a pollutant occurring as the result of any incident in relation to that activity, including an emergency, accident or malfunction, if this release causes or may cause an environmental nuisance.

2 A person responsible for an activity that is a level 2 activity or a level 3 activity must notify the Director, as soon as reasonably practicable but not later than 24 hours, after becoming aware of the release of a pollutant occurring as the result of any incident in relation to that activity, including an emergency, accident or malfunction, if this release causes or may cause an environmental nuisance.

3 A person responsible for an environmentally relevant activity must notify the Director, as soon as reasonably practicable but not later than 24 hours, after becoming aware of the release of a pollutant occurring as the result of any incident in relation to that activity, including an emergency, accident or malfunction, if this release causes or may cause serious or material environmental harm.

4 The Director can be notified by telephoning 1800 005 171 (a 24-hour emergency telephone number).

5 Follow up reports can be emailed.

6 Any notification given by a person in compliance with this section is not admissible in evidence against the person in proceedings for an offence or for the imposition of a penalty (other than proceedings in respect of the making of a false or misleading statement).

7 A person is required to notify the relevant Council or the Director of an incident despite the fact that to do so might incriminate the person or make the person liable to a penalty.

8 Any notification referred to in subsection (1), (2) or (3) must include details of the incident, its nature, the circumstances in which it occurred and any action that has been taken to deal with it.

9 For the purposes of subsections (1), (2) and (3):
   9.1 a person is not required to notify the relevant Council of an incident if the person has reasonable grounds for believing that the incident has already come to the notice of the Council

   9.2 a person is not required to notify the Director of an incident if the person has reasonable grounds for believing that the incident has already come to the notice of the Director;

LO2 EMPCA

The activity must be conducted in accordance with the requirements of the Environmental Management and Pollution Control Act 1994 and Regulations thereunder. The conditions of this document must not be construed as an exemption from any of those requirements.

LO3 Storage and handling of Dangerous Goods and Dangerous Substances

1 The storage, handling and transport of dangerous goods and dangerous substances must comply with the requirements of relevant State Acts and any regulations thereunder, including:

DIRECTOR, ENVIRONMENT PROTECTION AUTHORITY

25 FEB 2013
1.1 Dangerous Goods (Road and Rail Transport) Act 2010;
1.2 Dangerous Goods (Road and Rail Transport) Regulations 2010;
1.3 Dangerous Substances (Safe Handling) Act 2005;
1.4 Dangerous Substances (Safe Handling) Regulations 2009;
1.5 Workplace Health and Safety Act 1995; and
1.6 Workplace Health and Safety Regulations 1998.

LO4 Aboriginal relics requirements

1 The Aboriginal Relics Act 1975, provides legislative protection to Aboriginal heritage sites in Tasmania regardless of site type, condition, size or land tenure. Section 14(1) of the Act states that; Except as otherwise provided in this Act, no person shall, otherwise than in accordance with the terms of a permit granted by the Minister on the recommendation of the Director:

1.1 destroy, damage, deface, conceal or otherwise interfere with a relic;
1.2 make a copy or replica of a carving or engraving that is a relic by rubbing, tracing, casting or other means that involve direct contact with the carving or engraving;
1.3 remove a relic from the place where it is found or abandoned;
1.4 sell or offer or expose for sale, exchange, or otherwise dispose of a relic or any other object that so nearly resembles a relic as to be likely to deceive or be capable of being mistaken for a relic;
1.5 take a relic, or permit a relic to be taken, out of this State; or
1.6 cause an excavation to be made or any other work to be carried out on Crown land for the purpose of searching for a relic.

2 If a relic is suspected and/or identified during works then works must cease immediately and the Tasmanian Aboriginal Land and Sea Council and the Aboriginal Heritage Tasmania be contacted for advice before work can continue. In the event that damage to an Aboriginal heritage site is unavoidable a permit under section 14 of the Aboriginal Relics Act 1975 must be applied for. The Minister may refuse an application for a permit, where the characteristics of the relics are considered to warrant their preservation.

3 Anyone finding an Aboriginal relic is required under section 10 of the Act to report that finding as soon as practicable to the Director of National Parks and Wildlife or an authorized officer under the Aboriginal Relics Act 1975. It is sufficient to report the finding of a relic to Aboriginal Heritage Tasmania to fulfil the requirements of section 10 of the Act.

LO5 Change of responsibility

If the person who is or was responsible for the activity ceases to be responsible for the activity, they must notify the Director in accordance with Section 45 of the EMPCA.
Attachment 1: The Land
Attachment 2: Area to be Disturbed

Legend:
- Extraction Blocks
- Grasstree
- Grasstree Buffer

Scale 1:3000

MINING LEASE BOUNDARY

AREA NOT TO BE DISTURBED

Current mined area

Year 1

Year 2

Year 3

Year 4

Year 5

Old excavation under rehabilitation

Access

Track

Area covered by flora and fauna survey

Lease Boundary
Attachment 3: Management commitments

Coffey Plant Hire will implement the recommendations of the ECOtas report and the advice from Aboriginal Heritage Tasmania.

<table>
<thead>
<tr>
<th>Commitment 1:</th>
<th>Minimise the area of native vegetation cleared at any one point to minimise the opportunities for establishment of invasive weed species.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commitment 2.</td>
<td>The sand mine is located on the crest of a gentle ridge line, in sandy terrain with a low run-off coefficient, and a very small catchment. If run off does occur, then sediment ponds will be installed on any developing drainage lines to a standard to retain a one in 10 year, 24hr storm event.</td>
</tr>
<tr>
<td>Commitment 3.</td>
<td>Where practical, retain clumps of <em>Xanthorrhoea australis</em> in a network of informally applied reserves as per the recommendations contained in the ECOtas report.</td>
</tr>
<tr>
<td>Commitment 5.</td>
<td>Instigate a weed management program to control weeds.</td>
</tr>
<tr>
<td>Commitment 6.</td>
<td>Report any finds of aboriginal artefacts immediately to Aboriginal Heritage Tasmania. Apply the <em>Unanticipated Discovery Plan</em> if any human remains are located.</td>
</tr>
<tr>
<td>Commitment 7.</td>
<td>The area of the Mining Lease missed by the ECOtas survey will not be mined until a flora and fauna survey of the area is completed.</td>
</tr>
</tbody>
</table>