

Stornoway Quarrying

Raeburn Quarry

Development Proposal and Environmental
Management Plan

APPENDIX A

DPEMP Guidelines

Development Proposal and
Environmental Management Plan
Project Specific Guidelines

for

Stornoway Quarries Pty Ltd

Raeburn Quarry

Breadalbane, Western Junction

**Board of the Environment
Protection Authority
January 2009**



1 General

This document identifies the key issues that must be addressed in the Development Proposal and Environmental Management Plan (DPEMP) for Stornoway Quarries proposed expansion of Raeburn Quarry, Western Junction.

This document should be read in conjunction with the *General Guidelines for the preparation of a Development Proposal and Environmental Management Plan* (www.epa.tas.gov.au/assess_dpemp_guidelines.html), which provides general information on preparing a DPEMP.

While the DPEMP should evaluate all potential effects of the proposal, the DPEMP should be principally focused on the key issues identified below. The level of detail provided on other issues should be appropriate to the level of significance of that issue for the proposal.

This document identifies the minimum survey requirements and studies required as part of the DPEMP in relation to the key issues.

This document should not be interpreted as excluding from consideration other matters deemed to be significant or matters that emerge as significant from environmental studies, public comments or otherwise during the course of the preparation of the DPEMP.

This document has been prepared on the basis of a Notice of Intent.

2 Key issues

The key issues that have been identified for consideration in relation to the proposal, and which should be the principal focus of the DPEMP, are as follows:

Key issue	
1	<i>Potential noise effects on surrounding residences associated with the operation of the proposal.</i>
2	<i>Airblast over pressure and ground vibration effects on surrounding residences and infrastructure associated with blasting activity.</i>
3	<i>Noise and dust emissions from vehicle movements on the site, and to and from the site.</i>
4	<i>Quarry closure and rehabilitation</i>

3 Survey and study requirements

The following surveys and studies will be required as part of the DPEMP in relation to the key issues. The relevant sections of the DPEMP General Guidelines are also identified.

Key Issue	Survey requirements for DPEMP	Other studies for DPEMP	Relevant section of DPEMP General Guidelines
Blasting	Estimation of impacts of blasting	Modelling to determine the 110,115 and 120dB(Lin Peak) air blast over pressure contours. Modelling to determine the 2.5, 5, 7.5 and 10mm/s peak particle velocity contours. Modelling to predict any impact on adjacent infrastructure.	s4.1 S4.17
Noise	Measurement of pre-existing ambient noise levels at nearest residences.	Modelling to determine the 30, 35, 40 and 45 dB(A) noise contours.	s4.4
Traffic	Traffic impact assessment (access route, estimated vehicle movements, operating hours, proximity to sensitive uses, consideration of noise and dust impacts).		s4.17

4 Detailed requirements for the DPEMP

The following DPEMP requirements are in addition to the requirements of the DPEMP General Guidelines. These additional requirements are grouped under the relevant section number corresponding to the DPEMP General Guidelines.

2.1 Project Outline

In addition to the matters stipulated in Section 2.1 of the DPEMP General Guidelines the DPEMP must contain the following:

- Location and dimension of any dams for capture and storage of stormwater
- Proposed quarrying rate and quarry life
- Mining plan for first 20 years i.e. (benching (section plan), noise attenuation barrier bunds, rehabilitation areas)

2.1.2 Construction phase

In addition to the matters stipulated in Section 2.1.2 of the DPEMP General Guidelines the DPEMP must contain the following:

- Measures designed to prevent the introduction or spread of introduced plant species, weeds, pests and diseases (such as *Phytophthora cinnamomi*)

2.2 Site Plan

In addition to the matters stipulated in Section 2.2 of the DPEMP General Guidelines the DPEMP must contain the following:

- Proposed location of primary and secondary crushing plant, mechanical screens, product stockpiles, overburden dumps, conveyors, fuel & oil storage areas, employee facilities and other infrastructure, including any noise and dust abatement equipment such as enclosures, bund walls, and water sprays.

4.2 Liquid Waste

In addition to the matters stipulated in Section 4.2 of the DPEMP General Guidelines the DPEMP must contain the following:

- Measures to prevent transport of sediment off site in stormwater runoff, including estimation of runoff volume and available detention capacity/time.
- Identification of any discharge points from the activity.
- Measures to prevent contamination of stormwater by fuels, oils or chemicals used or stored on site.
- Details of proposed domestic wastewater disposal.

4.5 Solid Waste

In addition to the matters stipulated in Section 4.5 of the DPEMP General Guidelines the DPEMP must contain the following:

- Estimated quantities of overburden and other waste rock or soil material
- Describe location of overburden dump(s) and their management

4.10 Heritage

In addition to the matters stipulated in Section 4.10 of the DPEMP General Guidelines the DPEMP must contain the following:

- The results of a survey of Aboriginal heritage items in the area to be disturbed by the activity

4.12 Visual effects

In addition to the matters stipulated in Section 4.12 of the DPEMP General Guidelines the DPEMP must contain the following:

- Details of visual impact of the quarry and any elevated structures from local vantage points.

4.14 Health and safety issues

In addition to the matters stipulated in Section 4.14 of the DPEMP General Guidelines the DPEMP must contain the following:

- Identification of any asbestiform minerals in the geology of the quarry.

4.17 Infrastructure and off-site ancillary facilities

In addition to the matters stipulated in Section 4.17 of the DPEMP General Guidelines the DPEMP must contain the following:

- Details regarding the potential effects of blasting vibration and land stability on the adjacent rail corridor in particular and in the surrounding area generally.

6.0 Quarry closure and rehabilitation

Due to the finite nature of quarrying operations and their susceptibility to external economic influences, quarry closure planning should commence before the operation commences. The DPEMP should contain sufficient detail to enable a bond to be established to protect the Crown from future liabilities in the event of unforeseen quarry closure or company failure.

In addition to the matters stipulated in Section 6.0 of the DPEMP General Guidelines the DPEMP must contain the following:

- A conceptual closure plan for end-of-quarry life and/or premature quarry closure (Note: typically permit conditions will require a detailed quarry closure plan to be submitted by the first anniversary of the granting of any permit)