

FROG HOLLOW - TIGER BRENNAN DRIVE CBD ENTRY TO CAVENAGH STREET

GUIDELINES FOR A PUBLIC ENVIRONMENTAL REPORT

Introduction

The purpose of this Public Environmental Report (PER) is to provide the Government with concise and comprehensive information regarding the design, construction and operation, and the potential environmental impacts of the proposed development.

Previous studies have determined the preferred location and the need for the project, therefore detailed discussion of these aspects are not required in this report. This PER will specifically focus on the environmental impact of the proposed construction activities on their immediate surrounds. Reference may be made to the previous studies where applicable and if new information is available, this can be submitted in the appropriate location.

1. Executive Summary

The executive summary should be a concise outline of the matters discussed in the main body of the document, to allow the reader to quickly obtain a clear understanding of the proposal, its environmental implications and management objectives. The summary should include;

- the title of the proposal,
- name and address of the proponent,
- a brief description of the background to and need for the proposal,
- a brief description of the proposal,
- a brief summary of the principal environmental impacts,
- a statement of the proposed environmental management principles and monitoring procedures,
- a brief explanation of the structure and scope of the PER and its legislative basis, and
- a description of the studies / surveys / consultations conducted in developing the proposal and preparing the PER (results of studies and detailed comments resulting from the consultation should be included as appendices).

2. Description of the Proposal

This section should describe the development in sufficient detail to provide an adequate understanding of infrastructure design and engineering, and all stages of construction. Maps, plans and drawings should be used where appropriate.

Aspects to be covered include, but should not be limited to:

Location and Design Requirements

- Location of development.
- Land tenure and additional planning issues.
- Design layout and standards, including alignment, drainage, access, construction facilities etc.
- Design limitations imposed by site characteristics including adjacent land use, mangroves, areas of social significance, etc.
- Design considerations to prevent public access and use of the tunnel, and to prevent public interference with traffic.

Construction Phase

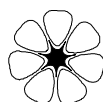
- Construction program (timing and duration).
- Physical requirements for construction (to include the nature of earthmoving, blasting and sources of fill and construction materials, supplies of water, cement, aggregate, road base, bitumen, etc.).
- Sourcing and transport of construction materials including heavy vehicle movement (numbers and frequency) on public roads.
- Construction standards, techniques, site management and supervision (including on-site storage and handling of materials).
- Construction wastes and disposal methods.
- Extent and methods of vegetation clearance, site preparatory works (particular focus on the techniques used for mangrove clearing and clearance through Frog Hollow).
- Soil conservation and rehabilitation measures.
- Acid sulfate soil control measures and methods for construction on these soils (a particular focus should be made on removal or clearing of mangrove areas and subsequent loading of mangrove mud).
- Stormwater construction practices and management to minimise potential for aggravating existing and prevent the creation of new breeding areas for biting insects.
- Dust and noise control.
- Methods used to deal with hazardous materials that may be excavated during construction.

Operational Phase

- Fume ventilation and control within the tunnel (location of vents and quantities vented)
- Continued public cycle access along Tiger Brennan Drive.
- Stormwater discharge quantities and locations.
- Noise abatement measures.
- Maintenance requirements and operations (resurfacing schedule, etc.).

3. Existing Environment

A description of the existing environment that may be affected by the proposal including off



site locations is required. These should include, but should not be limited to:

Proposed Road Alignment and Reserves

- Topography.
- Seismic stability (Frog Hollow tunnel).
- Surface and sub-surface hydrology including drainage patterns, catchment areas potentially at risk from spills.
- Soil characteristics (both physical and chemical).
- Acid Sulphate Soil characterisation.
- Terrestrial vegetation (including the occurrence of significant trees).
- Sites of significance including historic, archaeological, sacred sites.

4. Environmental impacts

The discussion should cover construction impacts only. Generally the discussion should use the same descriptors used to describe the existing environment.

Types of impacts which should be considered include:

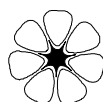
Proposed Road Alignment and Reserves

- Potential effects of spills and leakage of petroleum and other stored construction products.
- Effects of vegetation clearance.
- Potential for increased soil erosion.
- Effects of increased run-off from hardstand areas, roadworks and disposal of stormwater.
- Effects of noise on surrounding land uses.
- Effects on any heritage or archaeological sites of significance.
- Potential effects of exposed Acid Sulphate Soils.
- Effect on adjacent landuse and buildings including access.

A summary table listing potential impacts, environmental management practices and safeguards, monitoring and management methods with cross-referencing to the text of the report should be provided together with the outline of an Environmental Management Plan (EMP) for the construction. Details of how the EMP will be implemented should be provided.

An EMP should:

- Provide details of proposed measures to minimise adverse impacts and the effectiveness of these safeguards.
- Ensure that safeguards are being effectively applied.
- Enable remedial action for any impacts which are not originally predicted.
- Measure the differences between predicted and actual impacts (monitoring); and provide for the periodic review of the management plan itself.



5. Glossary

A glossary defining technical terms and abbreviations used in the text should be included to assist the general reader.

6. References

The reference list or bibliography should be accurate and concise.

7. Appendices

Information relevant to the PER but not suitable for inclusion in the main text should be included as appendices, for example detailed technical or statistical information, maps, baseline data, supplementary reports etc.

8. Administration

The Project Officer is Richard McAllister of the Environment & Heritage Division, Department of Lands, Planning and Environment and can be contacted on phone (08) 8924 4123 or fax (08) 8924 4053.

One copy of a “preliminary” draft PER should be lodged with the Environment & Heritage Division for internal review prior to its release for public and advisory body comment.

Once this internal review is finalised, **10 copies of the PER together with 2 CD rom** copies should be lodged with the Department of Lands, Planning and Environment for distribution to government advisory bodies. **CD rom** copies should be in ADOBE *.pdf format for placement on the internet.

Arrangement for the public display, review and purchase of the PER, including locations and number of copies will be made at the time when the preliminary copy of the draft PER is reviewed.

