

Environmental Effects
Report Guidelines
(Extractive Industry)
King Island Council
East Reekara Quarry,
North Road Reekara

February 2024



ENVIRONMENT PROTECTION AUTHORITY

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Glossary and abbreviations

Term	Definition
ABA	Acid Base Accounting
AMD	Acid and Metalliferous Drainage
Board	Board of the Environment Protection Authority
Case for assessment	Information required for environmental impact assessment, prepared according to the Board's requirements.
Director	Means the Director, Environment Protection Authority holding office under Section 18 of <i>Environmental Management and Pollution Control Act 1994</i> and includes a delegate or person authorised in writing by the Director to exercise a power or function on the Director's behalf.
EER	Environmental Effects Report
EMPCA	<i>Environmental Management and Pollution Control Act 1994</i>
EPA	Environment Protection Authority. Tasmania's independent principal environmental regulator which administers EMPCA and consists of a Board and a Director.
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Commonwealth)
LUPAA	<i>Land Use Planning and Approvals Act 1993</i>
NAG	Net Acid Generation
NCA	<i>Nature Conservation Act 2002</i>
Noise sensitive premises	Residences and residential zones (whether occupied or not), schools, hospitals, caravan parks and similar land uses involving the presence of individual people for extended periods, except in the course of their employment or for recreation.
NAF	Non Acid Forming
PAF	Potentially Acid Forming
PASS	Potential Acid Sulphate Soil
Planning Authority	Council for relevant local government area
TSPA	<i>Threatened Species Protection Act 1995</i>

Introduction

Purpose of the Guidelines

These Guidelines provide instructions for proponents on how to prepare an Environmental Effects Report (EER) for an activity being assessed in Tasmania by the Board of the Environment Protection Authority (the Board). An EER is a document that provides information about the environmental impacts of the proposed activity and the proposed mitigation measures. The Board uses the EER as a 'case for assessment', to assess the environmental impact of an activity, as required under the *Environmental Management and Pollution Control Act 1994* (EMPCA).

Guidelines will be adapted for each proposal, where Part B and Part C include project-specific information requirements. The EER must be prepared in accordance with the project-specific Guidelines, which are issued under section 74(4) of EMPCA.

The EER will be advertised during the public consultation period and remain publicly available on the EPA website. After consultation, the proponent may be required to supply additional information in response to public and government agency submissions. This generally takes the form of a Supplement to the EER.

Further information is available on the [EPA Assessment Process](#)¹ website.

Preparing an EER

The EER should contain five parts as follows:

- Part A – information about the proponent
- Part B – information about the proposal, site and area
- Part C – information about potential environmental impacts
- Part D – description of the proposed management measures
- Part E – description of any public consultation undertaken

Other relevant information, such as survey reports, should be attached to the EER as appendices.

The EER must be typed, A4 sized and submitted electronically (in a searchable format). All images must be of high quality, have a descriptive caption, and be capable of being easily copied and pasted into other documents such as a permit (i.e. all objects should be 'grouped'). All maps, plans, and aerial photographs must be oriented in the same direction as far as practicable, and include a north arrow and scale.

The content of the EER should be prepared using a risk-based approach. The level of detail provided on each issue should be appropriate to the level of significance of that environmental issue to the proposal. Not all issues nominated in these Guidelines will have the same degree of relevance to the proposed activity. Depending on the nature of the proposed activity and its location, some of the issues may be more relevant than others, while others may not be applicable at all.

Submitting an EER

It is strongly recommended that proponents submit a draft EER to the EPA for review prior to formal lodgement of the EER with the Board.

The EER (and any drafts submitted for review) may be submitted via email to assessments@epa.tas.gov.au and your nominated contact officer. Proponents should contact the EPA if alternative submission methods are deemed necessary.

¹ Available at <https://epa.tas.gov.au/assessment/assessment-process>

Planning Information

Where the proposal is subject to a permit under the *Land Use Planning and Approvals Act 1993* (LUPAA), information required solely for the purpose of assessment under the relevant Planning Scheme should be supplied to Council either:

- as a separate response to an additional information request from Council under section 54 of LUPAA, where the planning application has commenced the environmental assessment process; or
- where it forms part of a combined planning and Environmental Effects Report, distinguished from information supplied for the purpose of the Board's assessment.

Commonwealth Legislation

The Commonwealth Government may also have a role in the environmental assessment and approval of the proposed activity. Approval under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) is required for an action which is on Commonwealth land or is likely to have a significant impact on a matter of national environmental significance.

Information on the EPBC Act can be obtained from the [Australian Government Department of Climate Change, Energy, the Environment and Water](http://www.environment.gov.au/climate-change) website², or by calling 1800 803 772.

The EER must include a statement on whether Commonwealth approval is likely to be required.

Environment Protection Authority Contact

For information about the assessment process, contact the Environmental Assessment Branch:

GPO Box 1550

Hobart, Tasmania 7001

Telephone: 03 6165 4599

Email: assessments@epa.tas.gov.au

Website: www.epa.tas.gov.au

² Available at www.dcccew.gov.au/environment/epbc

Content of EER

Part A – Proponent Information

Provide the following information regarding the proponent:

Proponent entity name	(Consistent with any intended or current permit application for the activity under LUPAA)
Proponent trading name	
Registered address of proponent	
Postal address of proponent	
ABN/ACN of proponent	
Contact person's details	Name Telephone number Email address
Consultant's details	Name Telephone number Email address

If a different entity will operate the activity after construction, provide similar details for that entity also.

Part B – Proposal Description

Where the proposal is subject to a permit application under LUPAA, the proposal description and specification of the site must be consistent with the intended or current permit application. Any works or activity that are for the purpose of the proposal (e.g. access works) must be included. As the proposed activity is adjacent to and using much of the infrastructure associated with an existing activity, provide details of any current regulatory approvals (permit, license, environment protection notice, mining lease, etc) relating to the existing activity.

I Description of proposed activity

Complete the following tables and provide additional text, diagrams or flowcharts as required.

Proposed Activity

Activity	Provide a general description of the proposed activity, including the classification of the activity under Schedule 2 of EMPCA.
New or existing?	State if this is an intensification/modification of an existing activity or a new activity.
Product	Describe the product and forecast life of the activity.
Maximum extraction quantity	Provide in cubic metres and tonnes per year, and state the conversion factor. Briefly describe any seasonal variation.
Maximum processing quantity	Provide in cubic metres and tonnes per year (i.e. crushing, grinding, screening).
Method/s	State the method(s) of material extraction and processing and main items of equipment involved.
Transport	Describe the proposed transport route (can refer to figures), vehicle types, number of vehicle movements (per day), and time of day of vehicle movements.
Stockpiling	State the materials that will be stockpiled on site.
Area of disturbance	State: <ul style="list-style-type: none"> • Maximum area of the site proposed to be disturbed (un-rehabilitated) at any time, in hectares. • Total area of land to be cleared over the life of the proposal, in hectares.
Major equipment	List the proposed plant/machinery and other temporary or permanent equipment.
Infrastructure	List the buildings, structures, access roads, internal haul roads, stormwater/wastewater and sediment infrastructure required for the operation of the site. Distinguish between existing and proposed and describe infrastructure from the adjacent site that is proposed to form part of the operation.
Proposal timeline	State the key proposal timeline(s).
Operating hours	State the proposed operating hours and days.

Location and planning context

Location	State the address of the site, and CTs and PIDs (as applicable) for all titles on which the activity will take place.
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Planning permit	Confirm whether a Planning Permit is required under LUPAA. As an appendix, provide written advice from Council stating the requirement, if a planning application has not already been lodged.
Land zoning and tenure	Describe the land zoning and tenure of the site and surrounds. If rezoning of the site is required, provide details.
Use Class and Permissibility	If a permit is required under LUPAA, state the Use Class and Permissibility of the activity under the relevant Planning Scheme.
Mining lease (ML)	Provide the ML reference number(s) and status (granted/applied for).
Lease area	State the size of the lease area(s).

Description of site and surrounds

Land use	Describe the land use of the site and surrounds, distance to the nearest residences, and any nearby conservation reserves or recreation areas.
Topography	Describe the topography of the site and surrounds.
Climate	State the annual rainfall, average temperatures and predominant wind direction (provide wind roses if possible).
Geology	Describe the geology of the site, including the likelihood that potentially acid forming (PAF) material will be found on site. Describe any geoconservation values on or near the site (e.g. karst).
Soils	Describe the soils on the site (including erodibility), and state whether there is potential to encounter acid sulphate soils and/or contaminated soil.
Hydrology	Describe the waterbodies and aquatic values on site and in the surrounding area. State the distance from the activity to the nearest waterbody.
Natural Values	State the vegetation types on and near the site. List the threatened fauna, flora and vegetation communities known to occur on or near the site (use the Natural Values Atlas , TASVEG 4.0 ³ or results of a relevant survey).

2 Maps and site plan/s

To enhance understanding of the proposal, spatial information should be presented in maps, plans, diagrams and photographs. These must be of high quality and reproducible in monochrome with all text and relevant features clearly visible. Maps and plans should include a north arrow and scale. When spatial data (including maps, plans, grid coordinates and heights) are provided or referred to, the coordinate reference system must be specified. At a minimum, provide the following:

- **General Location Map** (1:25,000 or other suitable scale), showing the Mining Lease, the nearest residences in other ownership, other sensitive uses⁴ and residential zones within 1.5 km of the proposed activity and within the applicable attenuation distance⁵, and the transport route(s) to and from the activity.

³ Both can be accessed at <https://www.naturalvaluesatlas.tas.gov.au/>

⁴ Defined in the State Planning Provisions as 'a residential use or a use involving the presence of people for extended periods except in the course of their employment such as a caravan park, childcare centre, dwelling, hospital or school.'

⁵ Refer to relevant planning scheme or State Planning Provisions

- **Map of the Land** on which the activity will take place and its boundary; by means of mining lease, land title information, map coordinates or other. The Land as defined by this figure must be consistent with any permit application submitted under LUPAA (i.e., the Land cannot extend beyond the land titles referenced in the permit application). This figure may be combined with the Site Plan. The boundary of the Land should also be provided to the Board in a geospatial vector format (shapefile or DXF).
- **Site Plan(s)** showing:
 - the boundary of the site;
 - the location of existing and proposed buildings/structures and plant and machinery;
 - the location of product, overburden, soil, and waste stockpiles and the areas within the site that will not be used for extractive or development of the site;
 - the planned development (staging) of the quarry or extractive pit;
 - the location and orientation of benches and development of infrastructure at key stages;
 - watercourses on and near the site;
 - site water management (drains, settling ponds, bunding and monitoring points, as relevant);
 - vegetation types, clearly marking areas to be cleared, and records of any threatened species/vegetation communities.

3 Project rationale and alternatives

- Explain the rationale for the proposal.
- Detail the benefits and disadvantages of any alternative options that have been considered including the potential to intensify production and/or expand existing activities (e.g. the Grassy Quarry on King Island) that could provide the necessary materials with a lower risk of generating acid and metalliferous drainage (AMD).

4 Existing activity

- As the proposed activity is associated with an existing activity, provide the following information in relation to the existing activity:
 - a summary of environmental monitoring results, including all water quality and monitoring results;
 - a summary of public complaints regarding the activity (received by the activity operator and by regulatory authorities);
 - details of breaches of conditions of current regulatory approvals (if any); and
 - details of contraventions of environmental law (if any).

Part C – Environmental Impacts and Management

The EER should evaluate all potential impacts of the proposal, with the level of detail provided on each issue reflecting its level of significance. For each issue, describe how the impact assessment has been performed (for example, surveys or desktop studies). Describe the existing environment in relation to the impact, including the vulnerability of the potentially affected environment. Clearly articulate the potential impacts, identifying plausible worst-case scenarios and the reversibility of the impact. Then, describe the management or contingency measures proposed to avoid, mitigate or offset potential adverse impacts. Detail any specialist recommendations which have/will be implemented, or justify otherwise. Finally, analyse how and to what degree the impacts will have been avoided, minimised or offset, and any residual impacts.

Information from documentation relating to the existing adjacent activity (such as an Environmental Management Plan or survey reports) may be used or referenced in this EER, provided the information is current.

I Air quality

- Identify and show on a site map all sensitive receptors that could potentially be affected by fugitive dust and particulate matter emissions from activities at the quarry, especially during unfavourable meteorological conditions.
- Describe the existing environment including climatic/meteorological conditions, terrain, land use and air quality in the vicinity of the proposal.
- Identify (on a site map) and characterise all sources of dust emissions from the site. This includes but is not limited to dust generated from the disturbed topsoil, stockpiles, excavating, loading, and traffic movements on and off site.
- Provide details of the materials handled and equipment used on the site. Provide the location of the equipment.
- Discuss and assess the potential impact of fugitive dust and particulate matter emissions from the proposed activity on the environment and the likelihood for the activity to cause environmental nuisance or harm at or beyond the site boundary. Consider local terrain and meteorological conditions including annual rainfall, the direction and strength of prevailing winds, and land use in the vicinity of the quarry.
- Describe measures that will be employed to reduce dust movement from the site, especially during unfavourable meteorological conditions. This may include but not be limited to watering or sealing roads, covering truck loads, reduced vehicle speed, road surfacing/maintenance details, enclosures, water sprays, windbreaks, and revegetation/stabilisation. Discussion of the ongoing requirement to provide an adequate water supply should be included, along with considerations for water availability in response to the potential impact of the future climate, such as the possibility of increasing unseasonal dry periods.
- Provide information about any dust complaints related to the operation of the existing adjacent facility for the last 5 years.

2 Acid and metalliferous drainage and potentially acid forming material

- Characterise the nature of the material to be quarried and associated overburden, waste rock and topsoil (including geochemical sampling, acid base accounting (ABA)/net acid generation (NAG) testing and non-acid forming (NAF)/potentially acid forming (PAF) classifications). Where relevant, evaluate its sodicity and erosion potential.

- A sufficient number of samples representing the different lithologies and the lateral distribution of properties within those lithologies must be used for materials characterisation and effluent predictions for AMD.
- Outline how this characterisation and evaluation will be used to:
 - classify and segregate the materials including the placement, duration and coverage of stockpiles.
 - develop methods (including appropriate sampling) to ensure that any materials are geochemically benign and fit for their intended purpose with specific reference to the management of PAF material being used for road construction and rehabilitation.
 - where relevant, provide details of any proposed lime-overburden blending process including the location and characteristics of the source alkaline materials, how and where it will be applied prior to and/or during construction, and the methodology used to determine the quantity and ratio of lime/overburden to the quarried material.
- The characterisation of the material to be quarried should also be used to inform section 3, in relation to potential AMD, water quality issues and their management.

3 Water quality (surface, discharge and groundwater)

- Describe the potential impacts of the activity on the receiving environment, with specific consideration of sediment and waterway disturbance, environmental values, AMD contaminated water and downstream water uses.
- Provide a risk assessment and conceptual site model for groundwater. This should include at a minimum:
 - Available groundwater depth;
 - Linkages between source, pathway and receptor;
 - Identification of any groundwater users that may receive groundwater recharge or surface expressions of groundwater from areas impacted by the proposal; and
 - Potential for the activity to contaminate groundwater and off-site surface water, including consideration of contaminants of concern, groundwater directional flow paths at local scale and any identified ecological receptors.
- Describe the management measures that will be employed to control surface water and reduce the potential for erosion, sediment loss and water quality impacts. Control measures may include: minimisation of areas of disturbance; minimisation of stormwater ingress and sediment mobilisation through the use of perimeter drains, cut-off drains and bunding; sediment basins or stilling areas to capture entrained sediment; and swales, rock filters, wetlands or vegetated discharge zones to remove fine suspended sediment.
- Identify the dimensions, capacity and other relevant design features of stormwater infrastructure such as drains, sediment basins and water treatment systems, with reference to design rainfall frequency (average recurrence interval) and intensity. For sediment basins provide the sediment capture particle size, settling volume and surface area calculations and design rationale⁶.

⁶ Suitable design approaches for sediment basins include those detailed in Best Practice Erosion and Sediment Control – Appendix B (June 2018 revision), International Erosion Control Association (Australasia) and Managing Urban Stormwater: Soils and Construction - Volume 2e: Mines And Quarries, Department of Environment and Climate Change, NSW Government (2008) available at <https://www.austieca.com.au/documents/item/697>

- Describe the waterbodies and aquatic values on site and in the surrounding area, including relevant Protected Environmental Values as per the [State Policy on Water Quality Management 1997](#).⁷
- State the distance from the activity to the nearest water bodies.
- Provide a Water Quality Monitoring Plan that includes, at a minimum:
 - an outline of the baseline and ongoing water quality data (duration, frequency and parameters) that will be collected for the existing rehabilitated site, proposed quarry and any offsite water bodies/drainage features that may be affected by the proposal. The Water Quality Monitoring Plan should provide for regular monitoring prior to extraction commencing to ensure that management and intervention measures can be appropriately designed and adjusted as necessary;
 - an outline of any additional parameters that may need to be considered where salinity or sodicity is an issue;
 - details of any other monitoring that may be undertaken to assist in addressing potential impacts, such as ecotoxicological data or potential hydrological changes.
- Demonstrate that the proposal is consistent with the [State Policy on Water Quality Management 1997](#).⁷
- Identify and characterise any other liquid emissions which could arise from the proposal including AMD and wastewater. Provide details of the nature of the effluent (estimated volume and characteristics), proposed treatment, monitoring (as relevant) and likely impact on the receiving environment (provide water quality data where available).
- Describe any management measures proposed to minimise the impact of the proposed activity on waterways and aquatic values with specific reference to potential impacts associated with AMD. If the existing water treatment system on Mining Lease 1919P/M is to be used, detail how this water treatment system will manage any potential increase in liquid emissions from the proposed activity including AMD contaminated water. If lime dosing is proposed as a management measure for pH, detail the methods for addition, circulation, settling retention and verification of acceptable water discharge.

4 Noise emissions and blasting

- Describe all noise sources, including the size and sound power level for each main piece of equipment (e.g. crusher/screen, loader, excavator, haul truck, rock drill) associated with the existing and proposed activities.
- Provide a map of the location of all major sources of noise and any noise sensitive premises⁸ within 3km of the boundary of the Land.
- Provide a comparison scenario between noise emissions from the existing and proposed activities, identifying any changes that will increase noise emissions at any noise sensitive premises.
- Predict cumulative noise emissions from the existing and proposed quarry sites at the nearest sensitive premises.
- Provide a statement as to whether blasting will be undertaken, and if so, the likely blast charge, frequency of blast events (per year) and discussion of potential for blast effects (ground vibration and air-blast overpressure) to impact nearby residences.

⁷ Available at https://epa.tas.gov.au/Documents/State_Policy_on_Water_Quality_Management_1997.pdf

⁸ 'Noise sensitive premise' is defined as: residences and residential zones (whether occupied or not), schools, hospitals, caravan parks and similar land uses involving the presence of individual people for extended periods, except in the course of their employment or for recreation.

- Evaluate the potential for the existing and proposed activities to create a noise nuisance, taking into consideration the:
 - distance to nearest residences and other noise sensitive premises;
 - acceptable standards described in section 7 of the *Quarry Code of Practice*⁹;
 - hours of operation;
 - method of excavation and processing/handling on site;
 - topography; and
 - site layout showing locations of activities (refer to the Site Plan).
- Investigate and discuss best environmental management practices that will be implemented to ensure that:
 - the proposed activity does not increase the existing ambient noise level at any noise sensitive receivers.
 - the cumulative noise emissions from the proposed activity are below the 'Background Noise Levels (LA90) + 5 dB(A)'.¹⁰
 - the cumulative noise emissions from the existing and the proposed activities do not exceed the noise limit listed in section 7 of the *Quarry Code of Practice*.
- All methods of measurement must be in accordance with the Tasmanian Noise Measurements Procedure Manual. Noise levels must be adjusted for tonality, impulsiveness, modulation, and low frequency in accordance with the *Tasmanian Noise Measurement Procedures Manual*.
- Provide information about any noise complaints related to the operation of the existing activity for the last 5 years.
- Demonstrate that the proposal is consistent with environmental performance requirements, including any identified in the [Environment Protection Policy \(Noise\) 2009](#).¹⁰

5 Natural values

- Provide records from the [Natural Values Atlas](#) and [TASVEG 4.0](#)¹¹ of any listed threatened flora/fauna species or threatened vegetation communities on or near the site. If any are present, or if the site has potential habitat for any such species, a detailed survey is likely to be required and the results should be presented in the EER.
 - Provide details and results of any flora or fauna surveys undertaken on the site. Surveys must comply with the requirements of the *Guidelines for Terrestrial Natural Values Surveys related to Development Proposals*, *Guidelines for Marine and Estuarine Natural Values Surveys related to Development Proposals*¹² and any relevant species-specific guidelines. The survey report must be appended to the EER.
 - Detail any proposed clearing or disturbance of native vegetation or potential habitat for native fauna as part of the proposal, including details of the nature of vegetation and habitat values to be cleared or disturbed, and the area of vegetation affected (in hectares).
 - Describe the potential impacts to threatened fauna, flora and vegetation communities, taking into account:

⁹ Available at <https://epa.tas.gov.au/business-industry/regulation/industrial-activities/mining-and-extractive>

¹⁰ Available at [https://epa.tas.gov.au/policy/statutory-policies/state-policies-and-environment-protection-policies/environment-protection-policy-\(noise\)-2009](https://epa.tas.gov.au/policy/statutory-policies/state-policies-and-environment-protection-policies/environment-protection-policy-(noise)-2009)

¹¹ Both can be accessed at <https://www.naturalvaluesatlas.tas.gov.au/>

¹² Available at <https://nre.tas.gov.au/conservation/development-planning-conservation-assessment/survey-guidelines-for-development-assessments>

- The clearance or disturbance of native vegetation or other potential habitat. In particular, provide details of the vegetation and habitat values to be cleared or disturbed, and the area to be affected, in hectares;
 - Movement, noise, or lights during sensitive avifauna breeding seasons;
 - Roadkill from vehicles¹³.
- Describe the potential impacts to geoconservation sites (e.g. karst systems), aquatic or riparian environments and other natural values, and the management measures proposed to mitigate these impacts.
 - Describe the management measures that will be implemented to mitigate or avoid impacts to threatened fauna, flora and vegetation communities or other natural values.

6 Weeds, pests and pathogens

- List the weeds¹⁴, pests and pathogens occurring on or near the site.
- Evaluate the potential for the activity to introduce or spread weeds and diseases to, from and within the site.
- Discuss the proposed management measures for preventing the spread of weeds, pests and pathogens (e.g. vehicle washdown procedures).

7 Waste

- Describe the solid and liquid waste that will be produced by the activity (e.g. overburden, PAF material, metal and machinery service wastes, used oils, general refuse).
- Describe the proposed methods for avoidance, reuse, recycling, treatment and disposal of waste.
- Detail the potential for the site to contain Potential Acid Sulfate Soils (PASS). The [Tasmanian Acid Sulfate Soil Management Guidelines](#) and the [National Acid Sulfate Soil Guidelines](#) (and if necessary undertake soil testing) should be consulted to determine if this is a matter that needs to be managed and if so, whether a management plan is required.

8 Environmentally hazardous substances

- Detail the nature and quantity of any environmentally hazardous substances¹⁵ that will be stored (permanently or temporarily) and/or handled on site. This includes fuels, oils, waste and chemicals.
- Describe the storage method and location of any environmentally hazardous substances and discuss the proposed management measures to prevent release and respond to accidental spills (e.g. provision of spill kits).

¹³ Information on roadkill risk for Tasmanian Devils is available at <https://nre.tas.gov.au/Documents/Devil%20Survey%20Guidelines%20and%20Advice.pdf>

¹⁴ Weed means a plant species that has, or is likely to have, an adverse impact on the environment because of the introduction, spread or increase in population size of the species in an area; and includes a declared weed as defined in the *Biosecurity Act 2019* and subordinate regulations.

¹⁵ 'Environmentally hazardous substance' is defined as: 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.

- Identify any dangerous goods¹⁶ and controlled wastes¹⁷ that will be present on the site, with reference to standard classification. Detail how they will be managed.

9 Site contamination

- Has the site on which the activity is to be located been used in the past for activities which may have caused soil or groundwater contamination? If so, provide details. Include details of any assessments of soil or groundwater contamination on the site.

10 Environmental impacts of traffic

- Provide details of the vehicle types, number of vehicle movements, times of movements and route(s).
- Evaluate the potential for transport to and from the site to cause a noise nuisance to residences and other noise sensitive premises in proximity to the Land, considering the type, volume and time of traffic associated with the proposal.
- Evaluate the potential to cause a dust nuisance as a result of traffic in proximity to the Land.
- Discuss the environmental impacts associated with vehicle movements and address roadkill mitigation measures where relevant. An increase in night-time (between one hour before sunset and one hour after sunrise as defined by the Bureau of Meteorology) traffic on internal and nearby roads of more than 10% combined with a high abundance of Tasmanian Devils and/or Tasmanian Devil roadkill records in the Natural Values Atlas is considered significant regarding likely impacts on the Tasmanian Devil. See the [Survey Guidelines and Management Advice for Development Proposals that may impact on the Tasmanian Devil \(*Sarcophilus harrisii*\)](#)¹⁸ for more information.

11 Other off-site impacts

- Does the activity have the potential to generate any other off-site impacts that may affect the amenity of residences or other sensitive uses (such as schools and hospitals)? If yes, provide details. The location of all nearby residences or other sensitive uses must be clearly shown on the area map (see Part B).

12 Monitoring

- Describe any proposed environmental monitoring and reporting for the activity.
- Show all proposed monitoring points on the site plan (see Part B).

13 Decommissioning and rehabilitation

- Describe the proposed decommissioning and rehabilitation measures in the event of cessation of the activity.
- Describe any proposed progressive rehabilitation measures, with reference to the staged development of the quarry/extractive pit (refer to the Site Plans as relevant). Ensure appropriate rehabilitation measures for the management of PAF material, AMD, sodicity and erosion are

¹⁶ As defined in the Australian Code for the Transport of Dangerous Goods by Road and Rail.

¹⁷ Information on controlled waste identification and classification is available at <https://epa.tas.gov.au/business-industry/regulation/waste-management/controlled-waste>

¹⁸ Available at <https://nre.tas.gov.au/Documents/Devil%20Survey%20Guidelines%20and%20Advice.pdf>

addressed, including an analysis of the extent to which overburden and topsoil may be a PAF risk prior to subsequent rehabilitation of cell.

I4 Greenhouse gas emissions and climate change

- Describe how the proposal will implement best practice environmental management in energy consumption and in transport of materials to and from the proposed activity, to minimise greenhouse gas emissions.
- Discuss the impacts of the proposed activity in relation to Tasmania's climate change strategy¹⁹.
- Describe the potential impacts of climate change upon the proposal. For example, it may be appropriate to plan for more intense storm events, more severe fire weather, long-term sea level rise, etc.

¹⁹ Available at: <http://www.dpac.tas.gov.au/divisions/climatechange>

Part D – Summary of Proposed Management Measures

This section should contain a table of the proposed measures for avoiding, minimising and managing the potential environmental impacts of the proposal (as identified in Part C). These should be written as specific, unambiguous statements of action (see example below).

Table I. Proposed management measures

No.	Proposed Management Measure	Timeframe
1	Design and install a sediment settling pond capable of containing runoff from a 1-in-20 year storm event as described in Part C, paragraph 2.6 [of the EER].	At least 30 days prior to commencement of operations.
2	Develop a solid waste management plan as described in Part C, paragraph 8.4 [of the EER].	Within three months of approval and prior to treatment or removal of any waste.
3	Erect a noise attenuation barrier as described in Part C, paragraph 9.2 [of the EER]	At least 30 days prior to commencement of operations.

Part E – Public and Stakeholder Consultation

- Describe any public or stakeholder consultation that has taken place or is intended (such as with other government agencies, community groups or neighbours).
- Provide details of the outcome or main findings of any community consultation.
- [Guidance on Community Engagement](#)²⁰ is available on the EPA website.

²⁰ Available at <https://epa.tas.gov.au/business-industry/assessment/guidance-documents>

Appendix A: Other issues and agency contacts

In addition to a permit under LUPAA and EMPCA, there may be other legal requirements to allow your proposal to proceed, including other permits, licences or landowner consent. You may also need to contact other Government agencies to obtain information for the purpose of assessment.

Your proposal may have been referred to other agencies by EPA. If assessments or approvals outside of the Board's responsibilities are required, you should engage with the respective agency to progress them. The following list identifies some of the agencies you may need to contact:

Conservation Assessments

Department of Natural Resources and Environment Tasmania

Telephone: (03) 6165 4396

Email: conservationassessments@nre.tas.gov.au

Website: www.nre.tas.gov.au/conservation

Purpose: Natural values including flora, fauna, and geoconservation values, or permits to deal with threatened species.

Heritage Tasmania

Department of Natural Resources and Environment Tasmania

Telephone: (03) 6165 3700

Email: enquiries@heritage.tas.gov.au

Website: www.heritage.tas.gov.au

Purpose: Historic cultural heritage, including State-level site listings, impacts and permits as required under the *Historic Cultural Heritage Act 1995*. Where works are proposed in or near a heritage place entered on the Tasmanian Heritage Register or likely to be of heritage significance to the whole of Tasmania, and a permit is required under the *Land Use Planning and Approvals Act 1993*, the proposal will be referred to Heritage Tasmania by the planning authority. There may also be additional sites listed under local planning schemes, impacts on which are assessed by the relevant planning authority.

Aboriginal Heritage Tasmania

Department of Premier and Cabinet

Telephone: 1 300 487 045

Email: aboriginalheritage@dpac.tas.gov.au

Website: www.aboriginalheritage.tas.gov.au

Purpose: Aboriginal heritage, including desktop assessment, artefact survey requirements, permits and advice.

Parks and Wildlife – Property Services

Department of Natural Resources and Environment Tasmania

Telephone: (03) 6169 9015

Email: PropertyServices@parks.tas.gov.au

Website: www.parks.tas.gov.au

Purpose: Impacts on parks and reserves managed by Parks and Wildlife, or Crown land.

Agriculture and Water

Department of Natural Resources and Environment Tasmania

Telephone: 1300 368 550

Email: Water.Enquiries@nre.tas.gov.au

Website: www.nre.tas.gov.au/water

Purpose: Water licences and works impacting natural waterway flow (e.g., dams or fords).

Transport Services

Department of State Growth

Telephone: (03) 6166 3369

Email: permits@stategrowth.tas.gov.au

Website: www.transport.tas.gov.au

Purpose: State roads, including where any proposal requires works on or access from a State-managed road.

Mineral Resources Tasmania

Department of State Growth

Telephone: (03) 6165 4800

Email: info@mrt.tas.gov.au

Website: www.mrt.tas.gov.au

Purpose: Mining Leases

