

Mining Lease Application and Proposal contents checklist (Extractive Minerals)

Important notes about this draft checklist:

- This is a draft checklist and is subject to change.
- A final copy of the checklist will be released in new quarry Minerals Regulatory Guidelines in 2021.
- This draft checklist reflects the requirements of the new Act, Regulations and Terms of Reference (TOR) that will come into force on 1 Jan 2021.
- Yellow highlights below indicate changes from current Legislation and Ministerial Determination MD003.
- **Not all changes** are highlighted in yellow below. There are minor editorial and formatting changes that are not highlighted.
- The applicant should ensure they are across all changes.
- Please contact DEM Mining Assessments if you have any questions.

This list provides a tick box that makes it easy to ensure you have included all required content within the application and proposal.

Provide information in the sections of the application and/or proposal that apply to the proposed operation. If a section is not applicable make a statement to that effect.

Provide mandatory sections required by Mining Act, Regulations and Terms of References for all applications and proposal.

This checklist should not be used as a standalone tool and must be used in conjunction with the Terms of Reference and Guideline to ensure that the details of all regulatory requirements are understood and met.

Framework	Requirement	Included
	Application Form and Fee	
	Complete online application form	
S. 36(1)(e)	Payment of Applicable Fee through online application form	
TOR 003	Format and submission of the MP	
	An electronic version must be submitted; hardcopies must be submitted upon request; the information in all must be identical; each page, plan or other separate sheet must include the mineral claim, retention lease or exploration licence number(s), date of the application submission and sequential page numbering; and	
	the electronic version must be submitted in one single Acrobat PDF file or if requested by the Director of Mines or an authorised officer, Microsoft Word compatible files must be submitted.	
Guideline	Basic information on the proposed mine	
	Title page detailing: <ul style="list-style-type: none"> • all relevant mineral claim number(s) or MPL application areas that comprise the proposed operation and are covered by the application to be assessed as a whole • name(s) of the applicant, including phone and email • name of the proposed operation • date of document preparation. 	
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r. 84	Declaration of accuracy	
	Signed statement by the applicant stating that the person has taken reasonable steps to review the information and to ensure its accuracy.	
TOR003 – 1	Description of the environment	

Framework	Requirement	Included
	Each of the elements of the existing environment must be described <u>only to the extent that they may need to be considered in assessing the potential impacts of the proposed quarry operations.</u> If the element is not likely to be impacted by the operation, a statement to that effect must be included.	
TOR003 – 1.1	Topography and landscape Provide a description and map (as per 5.1.1.1) of the topography and landscape, detailing the: <ul style="list-style-type: none"> • application area; and • general surroundings. 	
TOR003 – 1.2	Climate Provide a summary from the nearest relevant weather station of: <ul style="list-style-type: none"> • annual rainfall and temperature patterns; and • prevailing wind directions and speed (including maximum wind gusts). 	
TOR003 – 1.3	Topsoil and subsoil A description of the soil profile (type and depth), and the characteristics and/or productivity of all soils on the application area (show this information on a map as per 5.1.1.2 if there is a variation in soils over the application area); and identify any soil characteristics that may be an issue for disturbance or rehabilitation.	
TOR003 – 1.4	Geological environment Local geological or site map (as per 5.1.1.2), showing location and dimensions of the deposit and structure (dip and strike where appropriate); representative cross sections (as per 5.2.1.1) of the proposed quarry area that identify the extent of the resource and estimate any overlying overburden; and a description and results of any geological evaluation work carried out.	
TOR003 – 1.5	Geohazards Provide an assessment of the potential for any of the following natural geohazards to be present in the application area: <ul style="list-style-type: none"> • structural instability including slips, faults, karst features or geological unit boundaries; • minerals that may occur in the material to be quarried (including overburden) and are hazardous to human health specifically radioactive minerals, asbestiform minerals or minerals which have the potential to produce respirable silica; and • minerals that may occur in the material to be quarried (including overburden) that may have the potential to pollute the environment - including but not limited to sulphide minerals that may generate acid. 	
TOR003 – 1.6	Groundwater Provide: <ul style="list-style-type: none"> • a statement describing if the application area is within an area where the water resources are prescribed under the <i>Landscape South Australia Act 2019</i>; • a map (as per 5.1.1.3) showing groundwater wells in the surrounding area, highlighting those used to determine the seasonally high water table elevation; • a cross section (as per 5.2.1.2) showing the proposed quarrying and seasonally high water table elevation in metres Australian Height Datum (AHD); and • evidence to validate the estimated seasonally high water table. If the proposed quarry has the potential to intersect the seasonally high water table, the following must be provided: <ul style="list-style-type: none"> • details of local groundwater systems, including information on water quality and static water level (including seasonal fluctuations), recharge and discharge mechanisms, aquifer hydraulic properties, location of any aquifer and static water level of any other known drill holes; and • an assessment of any current use of this water by the landowner, adjacent landowners and groundwater dependent ecosystems. 	
TOR003 – 1.7	Surface water Provide a Topographic Map (as per 5.1.1.1) and description of the current drainage patterns for the application area and water catchment including: <ul style="list-style-type: none"> • location of watercourses, drains, dams and wetlands; • surface water catchment boundaries; 	

Framework	Requirement	Included
	<ul style="list-style-type: none"> direction of drainage and discharge from the application area; 	
	<ul style="list-style-type: none"> a statement describing if the application area is within an area where the water resources are prescribed under the <i>Landscape South Australia Act 2019</i>, and provide details on the current availability of water resources within the prescribed area; 	
	<ul style="list-style-type: none"> a statement describing if the application area is within a water protection area including areas under the <i>River Murray Act 2003</i>; and 	
	<ul style="list-style-type: none"> a statement as to whether the application area falls within the Murray Darling Basin. 	
	If there is potential for changing a flow regime (including change in flow volume) or discharge into these watercourses from the proposed quarry operations, an assessment of the use of this water by the landowner, downstream users and water dependent ecosystems must be included.	
TOR003 – 1.8	Vegetation, weeds and plant pathogens	
	<ul style="list-style-type: none"> a description and map (as per 5.1.1.1) of existing flora (native and introduced) in the application area and surroundings; 	
	<ul style="list-style-type: none"> the State conservation status and habitat value of native vegetation present in the application area; 	
	<ul style="list-style-type: none"> a description of the presence of <i>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</i> listed species and ecological communities; 	
	<ul style="list-style-type: none"> a description of the extent the application area and adjoining land is affected or potentially affected by pathogens and prescribed weeds, including but not limited to phytophthora and broomrape; and 	
	<ul style="list-style-type: none"> if known, a description of the history of land use to identify if the existing vegetation is the result of deliberate cultivation or natural regrowth arising from previous clearance. 	
TOR003 – 1.9	Fauna	
	Describe the native and feral fauna that may be present in the application area noting State or Commonwealth conservation status of all species.	
TOR003 – 1.10	Caves	
	If the application area is within, or near to, known caves or significant limestone formations a survey for the presence of caves must be performed.	
	Provide a summary of the results of the survey and describe the presence of any caves in karst (limestone) areas within, or near to, the application area and show on a map (as per 5.1.1.5).	
TOR003 – 1.11	Land use	
	Provide a description of:	
	<ul style="list-style-type: none"> land use (historical and current) for the application area and the surrounding areas; 	
	<ul style="list-style-type: none"> the zoning as defined by the Planning and Design Code or relevant council development plans; 	
	<ul style="list-style-type: none"> policies relevant to the application area, including region or council wide, zone specific and sub areas within a zone; 	
	<ul style="list-style-type: none"> known plans for potential future land use changes by other parties; 	
	<ul style="list-style-type: none"> other interests or restrictions on the application area, including: <ul style="list-style-type: none"> public utility easements; if the application is within land used for defence purposes, including the Woomera Prohibited Area or the Cultana Army Training Area; and any overlapping or adjacent tenements under the <i>Mining Act 1971</i> or <i>Petroleum and Geothermal Energy Act 2000</i>; 	
TOR003 – 1.12	Proximity to infrastructure and housing	
	Provide information and a map (as per 5.1.1.4):	
	<ul style="list-style-type: none"> identifying residences within and near the application area; 	
	<ul style="list-style-type: none"> identifying other human infrastructure including but not limited to schools, hospitals, commercial or industrial sites, roads, sheds, bores, dams, ruins, pumps, cemeteries, scenic lookouts, roads, railway lines, fences, transmission lines, gas and water pipelines, telephone and communication lines (both underground and above ground); and 	

Framework	Requirement	Included
	<ul style="list-style-type: none"> identifying public roads to be utilised or affected as part of proposed quarrying operations, including an estimate of the existing traffic movements. 	
TOR003 – 1.13	Exempt Land Provide a description and map (as per 5.1.1.4) of any applicable exempt land under Section 9 of the <i>Mining Act 1971</i> .	
TOR003 – 1.14	Amenity Provide a summary description of scenic or aesthetic values for the application area and immediate surrounds.	
TOR003 – 1.15	Air quality Provide a description of the existing levels of dust and contributors to air quality (both natural and anthropogenic).	
TOR003 – 1.16	Noise Provide a description of existing noise levels and contributors to noise (both natural and anthropogenic).	
TOR003 – 1.17	Heritage (Aboriginal, European, Geological) Detail and show on a map (as per 5.1.1.1): <ul style="list-style-type: none"> any registered heritage sites in or adjacent to the application areas that are protected under legislation (in so far as may be permitted under the relevant legislation). 	
	<ul style="list-style-type: none"> Include a statement concerning whether or not an Aboriginal cultural heritage survey has been conducted by the proponent and, if so, the results of the survey. 	
TOR003 – 1.18	Proximity to conservation areas Provide information and a map (as per 5.1.1.1) showing: <ul style="list-style-type: none"> proximity to national parks and reserves, private conservation areas, Commonwealth recognised conservation areas, heritage agreement areas and geological heritage sites. 	
TOR003 – 1.19	Pre-existing site contamination and previous disturbance Provide information and a map (as per 5.1.1.1) showing: <ul style="list-style-type: none"> any known existing contamination of the site and/or any disturbance by previous mining operations or other activities. 	
s. 36(1)(c)(i) & s. 49(1)(c)(i)	Description of the proposed mining operations Each of the elements of the proposed mining operations must be described <u>only to the extent that they apply to the application.</u>	
TOR003 – 2.1	General description and maps/plans of operations A summary description of all elements of the proposed operation must be included.	
TOR003 – 2.2	Resource and Products	
TOR003 – 2.2.1	Resource Provide a statement of the extractive minerals proposed to be extracted, recovered and sold.	
r. 30(1)(a) & TOR003 – 2.2.1	Provide a statement of the current estimated resource or reserve (or both), including: <ul style="list-style-type: none"> details of the basis of this estimate; and 	
r. 30(1)(b) & TOR003 – 2.2.1	<ul style="list-style-type: none"> a declaration that the resource or reserve (or both) has been appropriately identified and estimated. 	
TOR003 – 2.2.2	Production rate and products State: <ul style="list-style-type: none"> the potential end use and products for all extractive minerals proposed to be sold. 	
	Provide estimates of the: <ul style="list-style-type: none"> annual production rate (product and overburden); life of the quarry; and material movement over life of quarry (product and overburden). 	
TOR003 – 2.3	Quarrying activities	
TOR003 – 2.3.1	Type or types of quarry operation to be carried out Provide:	

Framework	Requirement	Included
	<ul style="list-style-type: none"> a summary and map (as per 5.1.2.1) of the proposed site layout; 	
	<ul style="list-style-type: none"> a description of the proposed quarrying method; and 	
	<ul style="list-style-type: none"> conceptual dimensions and depth of proposed pit(s). 	
TOR003 – 2.3.2	<p>Sequence of mining and rehabilitation operations</p> <p>Describe conceptually and show on a map (as per 5.1.2.2):</p> <ul style="list-style-type: none"> staging and description of each progressive quarrying stage; milestones that will instigate progressive rehabilitation; and staging and description of each progressive rehabilitation stage including: <ul style="list-style-type: none"> use of overburden; battering of mining faces and other earthworks; topsoil management; and revegetation. 	
TOR003 – 2.3.3	<p>Stockpiles</p>	
TOR003 – 2.3.3.1	<p><i>Topsoil and Subsoil Stockpiles</i></p> <p>Describe and show on a map (as per 5.1.2.1):</p> <ul style="list-style-type: none"> conceptual location, size, shape and height of topsoil/subsoil stockpiles. 	
TOR003 – 2.3.3.2	<p><i>Product Stockpile</i></p> <p>Describe and show on a map (as per 5.1.2.1):</p> <ul style="list-style-type: none"> conceptual location and height of product stockpiles. 	
TOR003 – 2.3.4	<p>Use of explosives</p> <p>If explosives are proposed to be used, describe:</p> <ul style="list-style-type: none"> estimated frequency of blasting; and whether explosives will be stored onsite. 	
TOR003 – 2.3.5	<p>Modes and hours of operation</p> <p>State if the proposed quarry operation will be operated on a continuous (24 hour, 7 days a week), regular periodical or campaign basis.</p> <p>If the proposed quarry operation is to be operated on a regular periodical basis or campaign basis, specify:</p> <ul style="list-style-type: none"> proposed period(s) (daily, weekly and public holidays) to be worked; and proposed start and finish hours the site is to be worked per period. 	
TOR003 – 2.4	<p>Crushing, processing and product transport</p>	
TOR003 – 2.4.1	<p>Fixed Plant</p> <p>Describe the specifications (to at least a conceptual standard) of fixed plant including but not limited to:</p> <ul style="list-style-type: none"> area, size, and location of fixed plant and associated structures including as applicable concrete batching plant, wheel wash facilities, silos, fuel tanks, water tanks, chemical storage proposed to be used for processing the extractive minerals on site; a description of rock or sand processing; in particular crushing, washing, drying, screening and separation; and the type(s) of processing/value adding used on the raw material and conducted onsite including but not limited to concrete, bitumen, separation and drying. 	
TOR003 – 2.4.2	<p>Hours of operation</p> <p>Describe the proposed hours of crushing, processing and product transport activities.</p>	
TOR003 – 2.4.3	<p>Processing wastes</p> <p>If processing wastes are to be generated provide a conceptual description of:</p> <ul style="list-style-type: none"> management of any proposed chemical additives contained within waste to prevent environmental harm; management and disposal of processing wastes; construction and geotechnical details of proposed storage facilities; and construction details/design of evaporation ponds and proposed use of waste material. 	
TOR003 – 2.4.4	<p>Industrial and domestic wastes</p> <p>A description of management of any of the following industrial and domestic wastes must be provided:</p>	

Framework	Requirement	Included
	<ul style="list-style-type: none"> putrescible waste; 	
	<ul style="list-style-type: none"> oil; 	
	<ul style="list-style-type: none"> other onsite waste disposal or recycling; e.g. workshop waste, tyres, drums, oil filters; 	
	<ul style="list-style-type: none"> offsite disposal; and 	
	<ul style="list-style-type: none"> a description of the type, area and layout of sewage systems installed at the site. 	
TOR003 – 2.5	Supporting surface infrastructure	
TOR003 – 2.5.1	Access and roads Describe: <ul style="list-style-type: none"> access route to the site and show on a map (as per 5.1.2.3); indicate if any new roads are to be constructed, or if existing roads or intersections (public and private) are to be upgraded; and transport system(s) used to and from the site and the estimated number of vehicle movements per day. 	
TOR003 – 2.5.2	Accommodation and offices Describe onsite personnel accommodation and offices, including but not limited to: <ul style="list-style-type: none"> number, area, size, type of construction and location of accommodation, office, meals or laboratory buildings, caravans or camp, and associated structures (e.g. car parks, water tanks, etc.) to be used on site; and if temporary or permanent. 	
TOR003 – 2.5.3	Public services and utilities used by the operation Describe: <ul style="list-style-type: none"> sources of services or utilities that are, or are to be supplied to the proposed site, such as power, water, telecommunications etc.; if new connections to services and utilities are required, the proposed routes for connection; and the effects to any existing services or utilities that have been or may be affected by the mining operations. 	
TOR003 – 2.5.4	Visual screening Describe the type of screening, including existing or proposed vegetation (i.e. species and density of plantings) and show on a map (as per 5.1.2.1 or 5.1.2.2).	
TOR003 – 2.5.5	Fuel and chemical storage For all fuels and chemicals stored on site show the proposed location of storage on a map (as per 5.1.2.1) and provide detail on: <ul style="list-style-type: none"> types of bulk chemicals and the volumes of each; and proposed bunding and containment for all chemical and fuel storage vessels. 	
TOR003 – 2.5.6	Site security Describe infrastructure and measures that will be adopted to prevent unauthorised access by the public, including, but not limited to: <ul style="list-style-type: none"> fencing; and signage. 	
TOR003 – 2.5.7	Erosion, sediment and silt control Describe and show on a map (as per 5.1.2.1): <ul style="list-style-type: none"> location and design of sediment management structures; management and disposal of silt; strategies to control runoff on disturbed areas and rehabilitated areas; and storage, diversion and release of clean water. 	
TOR003 – 2.6	Vegetation clearance If clearance of native vegetation is proposed, a description of the vegetation type to be cleared and map (as per 5.1.2.2) showing the proposed clearance area must be provided. State the estimated quantum of significant environmental benefit (SEB) to be gained in exchange for the proposed clearance and describe how the SEB will be provided.	
TOR003 – 2.7	Site Water Management	

Framework	Requirement	Included
	Provide an estimate of the quantity of water to be used and the proposed source of that water.	
	If processing water is to be used, provide a water balance including: <ul style="list-style-type: none"> • approximate water volumes required for processing; and • a summary of all water inputs and outputs. 	
	Provide a description of all process water ponds, including: <ul style="list-style-type: none"> • size, capacity, layout and location of ponds; • design and construction methods; and • minimum freeboard to be maintained. 	
TOR003 – 2.8	Description of quarry site at completion	
	Provide a map (as per 5.1.2.4), cross-section (as per 5.2.2.2) and a conceptual description of the quarry site as it will be at completion after all rehabilitation and closure activities have been completed, including: <ul style="list-style-type: none"> • potential land use options; • landforms; • proposed vegetation covers (including native vegetation that will not be disturbed due to proposed quarrying operations); • any quarrying infrastructure that may remain on site and become the responsibility of the landowner; • location, description and management of waste disposal areas; • location of reshaped and rehabilitated areas, proposed surface contours and revegetation; and • location of surface water infrastructure including ponds and diversions. 	
	Provide a description of the proposed mechanism for transferring responsibility for any potential residual liability (e.g. ongoing maintenance or monitoring) subsequent to surrender of the tenement.	
TOR003 – 2.9	Description of workforce and local procurement	
	Describe: <ul style="list-style-type: none"> • number of full-time equivalent employee positions that would be directly created by the proposal (not to include existing positions); • the proportion of the workforce that would likely reside in the local community and the estimated impact on local employment; • any programs to target and assist Indigenous or local employment at the quarry; • training to be provided to employees and potential employees; • approximate timelines for creation of the positions; and • potential for local business participation, and procurement of local goods and services. 	
TOR003 – 7	Description of contributions to the economy	
	A description of the economic contributions of the proposed operations, including (but not limited to): <ul style="list-style-type: none"> • goods and services used in the local community, state and external to state; • wages and other employee benefits; • economic benefits derived from local employment; • approximate royalty payments and other direct state government taxes; and • any other potential economic contributions proposed during the development of the quarry, operation of the proposed quarry and post quarry completion. 	
r. 38	Infrastructure Sharing (MPLs only)	
r. 38	If an application for a MPL proposes infrastructure, be constructed or installed on the land in respect of which the licence is being sought and the infrastructure is of a kind that is capable of being shared with other persons then the following must be provided: <ul style="list-style-type: none"> • A description of any similar infrastructure that exists in the region where the land is located; and <p>Either</p>	

Framework	Requirement	Included
	<ul style="list-style-type: none"> If infrastructure is present: a statement as to why that infrastructure cannot be used for any relevant ancillary operations; or If infrastructure is not identified; a statement demonstrating the benefit (if any) that the infrastructure proposed to be constructed or installed under the MPL would provide to the region where the land is located and outlining any proposal to share that infrastructure with any other person. 	
TOR003 - 3 s. 36(1)(c)(iv) & s. 49(1)(c)(iv)	Consultation Results of consultation	
TOR003 - 3	A description of: <ul style="list-style-type: none"> the process undertaken for identifying stakeholders with an interest in, or stakeholders likely to be directly affected by the proposed quarry operation; 	
TOR003 – 3	<ul style="list-style-type: none"> the process undertaken for the delivery of information to, gathering of feedback from, and responding to those identified stakeholders; 	
TOR003 – 3	<ul style="list-style-type: none"> if any individual or group of similar affected persons were not able to be consulted, the steps taken to consult with them; and 	
r. 47(2)(a)(i) & TOR003 - 3	<ul style="list-style-type: none"> the extent to which the outcomes proposed in clause 4.2.2 have been developed in consultation with the landowner and any other person who may be directly affected by the proposed quarry operations. 	
	The results of the consultation undertaken with those identified stakeholders, including:	
r. 47(2)(b)(i) & TOR003 - 3	<ul style="list-style-type: none"> the persons consulted; 	
r. 47(2)(b)(ii) & TOR003 – 3	<ul style="list-style-type: none"> any concerns / issues raised; and 	
r. 47(2)(b)(iii) & TOR003 - 3	<ul style="list-style-type: none"> the response and steps (if any) taken or proposed to address those concerns. 	
s. 36(1)(c)(ii) & s. 49(1)(c)(ii) s. 36(1)(c)(ii)(A) & s. 49(1)(c)(ii)(A) TOR003 – 4.1.1	Management of environmental impacts Assessment of environmental impacts Elements of the environment Describe the specific elements of the environment (the environment is defined in Section 6(4) of the Mining Act 1971) that may reasonably be expected to be impacted on by the proposed quarry operation during construction, operation, and indefinitely post completion.	
	For each element of the environment identified: <ul style="list-style-type: none"> provide a summary of any issues or considerations raised by stakeholders, and any relevant legislated or recognised standards in relation to the element of the environment; describe all potential environmental receptors; and undertake an impact assessment of how the element could be potentially impacted by proposed quarry operations (during construction, operation and post completion) through the provision of the information listed in the following clause 4.1.2. 	
s. 36(1)(c)(ii)(A) & s. 49(1)(c)(ii)(A)	Potential impact events Describe potential impact events associated with each phase of the proposed quarry operations (construction, operation and post completion) and relevant to each element of the environment. For the purpose of the impact assessment, a potential impact event is the combination of a source, a pathway and an environmental receptor. The source, pathway and environmental receptor of each potential impact event must be described prior to the implementation of engineering or administrative control measures. For each potential impact event identified in clause 4.1.2, provide:	
TOR003 – 4.1.2.1	Source A description of the source of the potential impact event, which alone or in combination has the potential to cause harm to an environmental receptor.	
TOR003 – 4.1.2.2	Pathway	

Framework	Requirement	Included
	A description of the potential pathway (with consideration of any natural barriers) by which an identified environmental receptor can be exposed to, or may reasonably be expected to be impacted by an identified source.	
TOR003 – 4.1.2.3	Environmental receptor	
	A description of the environmental receptors that may reasonably be expected to be adversely impacted by the source, taking into account the considerations for the element of the environment described under clause 4.1.1	
r. 46(7)(c) & TOR003 – 4.1.2.4	Description of uncertainty	
	Describe any significant degree of uncertainty pertaining to the evaluation of sources, pathways and environmental receptors, including (but not limited to) lack of site specific information, limitations on modelling and quality of data. Describe any assumptions connected with the identified uncertainty.	
	So far as is relevant, identify the sensitivity to change of any assumption that has been made, including whether a change in assumption may result in a new environmental impact.	
TOR003 – 4.1.2.5	Confirmation of potential impact events	
TOR003 – 4.1.2.5	For each potential impact event provide: <ul style="list-style-type: none"> an analysis of whether a source, pathway and receptor does exist (and if not, or if it remains uncertain, provide an explanation for the conclusion); and 	
r. 46(3) & TOR003 – 4.1.2.5	<ul style="list-style-type: none"> a description of the likely impact from the source on the environmental receptor. 	
s. 36(1)(c)(ii)(B) & (C) & s. 49(1)(c)(ii)(B) & (C)	Control measures, uncertainty assessment, statement of environmental outcomes and criteria	
	For each impact event confirmed in clause 4.1.2.5, the information listed in clauses 4.2.1 – 4.2.3 must be provided:	
s. 36(1)(c)(ii)(B) & s. 49(1)(c)(ii)(B)	Control measures	
TOR003 – 4.2.1	<ul style="list-style-type: none"> Include a description of the measures proposed to manage, limit or remedy each impact event; 	
TOR003 – 4.2.1	<ul style="list-style-type: none"> Demonstrate that the measures proposed are commensurate with the potential impacts, achieve compliance with other applicable statutory requirements and promote progressive rehabilitation; 	
r. 46(7)(c) & TOR003 – 4.2.1	<ul style="list-style-type: none"> Include a description of any significant degree of uncertainty pertaining to the likely effectiveness of proposed control measures, including but not limited to lack of site specific information, limitations on modelling and quality of data 	
TOR003 – 4.2.1	<ul style="list-style-type: none"> Include a description of any assumptions connected with the identified uncertainty; 	
r. 46(7)(d) & TOR003 – 4.2.1	<ul style="list-style-type: none"> So far as is relevant, identify the sensitivity to change of any assumption that has been made and assess the likelihood of an outcome not being achieved if an assumption is later found to be incorrect. 	
s. 36(1)(c)(ii)(C) & s. 49(1)(c)(ii)(C) & r. 46(4)	Statement of proposed environmental outcomes	
TOR003 – 4.2.2	Provide a statement of the proposed environmental outcome(s) (including completion outcomes assessed on a long term basis) for each impact event confirmed in clause 4.1.2.5;	
r. 46(4)	Completion outcomes have been assessed on a long term basis.	
r. 46(3) & TOR003 – 4.2.2	<ul style="list-style-type: none"> Ensure that the statement of environmental outcome(s) describe the likely consequence of the expected impact on the environment by the proposed quarry operations subsequent to the implementation of the control measures described in clause 6.2.1; and 	
TOR003 – 4.2.2	<ul style="list-style-type: none"> Provide a statement that demonstrates the environmental outcomes would be able to be achieved taking into consideration the effectiveness of the control measures (clause 4.2.1) and description of uncertainty (clause 4.2.1). 	
r. 47(2)(a)(i)	Provide evidence that stakeholders have been consulted in the development of outcomes	

Framework	Requirement	Included
s. 36(1)(c)(iii) & s. 49(1)(c)(iii) & r. 46(5)	Draft measurement criteria	
s. 36(1)(c)(iii) & s. 49(1)(c)(iii) r. 46(5) & TOR003 – 4.2.3	As far as practical comply with the five elements set out in regulation 46(5) of the <i>Mining Regulations 2020</i> ; <ul style="list-style-type: none"> • What is to be measured and the form of the measurements that are to be used; and • The locations where the relevant measurements are to be taken, or how such locations are to be determined; and • What is proposed to be taken to constitute to achievement of the relevant outcomes (with consideration being given to any inherent errors of measurement); and • The frequency of any measurement or monitoring; and • Any background or control data that is to be used, or how any such data is to be acquired. 	
r. 46(8)	Any draft criteria must, insofar as is reasonably practicable and appropriate, be expressed in quantitative terms (rather than qualitative terms).	
TOR003 – 4.2.3	Draft criteria must include demonstration of the successful implementation of the significant environmental benefit (SEB), if native vegetation is proposed to be cleared and an on-ground off-set proposed. (note, the SEB itself need not be demonstrated at the lease application stage)	
	Information to accompany the Application	
	Effective and efficient mining and outcome achievement statements	
r. 30(1)(e) & r. 37(b)	Statement that demonstrates: <ul style="list-style-type: none"> i) That there is a reasonable prospect that the land in respect of which the lease is sought could be effectively and efficiently mined (Mining Leases only); and ii) That appropriate environmental outcomes will be able to be achieved. 	
	Resource Justification	
r. 30(1)(c)	Statement declaring that the mineral resource or ore reserve, or both, has been appropriately identified and estimated	
	Exempt land / land access	
TOR003 – 1.13	Provide a description and map (as per 5.1.1.4) of any applicable exempt land under Section 9 of the <i>Mining Act 1971</i> .	
TOR003 – 6	<ul style="list-style-type: none"> • A description of any waivers of exemption obtained, and/or information on the status of waivers of exemption yet to be negotiated/finalised under Section 9AA of the <i>Mining Act 1971</i>; and • A description of any native title mining agreements obtained under the <i>Mining Act 1971</i> or Indigenous Land Use Agreements (ILUA) under the <i>Native Act 1993</i> (Cth). 	
	Operator Capability and Resources Statements	
r. 30(1)(d) & r. 37(a)	A statement of the technical, operational and financial capabilities and resources available to the applicant for the purpose of carrying out operations under the mining lease.	
r. 30(1)(f) & r. 37(c)	A statement by the applicant or a related body corporate outlining any contravention of, or failure to comply with, a provision of a corresponding law or designated Act in connection with authorised operations carried out by them within the preceding period of 5 years that resulted in; <ul style="list-style-type: none"> i) The revocation or suspension of an authority to carry out authorised operations; or ii) A prosecution for an offence; or iii) The imposition of a penalty by a court; or iv) The issuing of a notice, direction or order that required the suspension or discontinuance of any authorised operations or the rectification of any harm to the environment or the rehabilitation of any land, place or other aspect of the environment. 	
	Maps and plans	
TOR003 - 5	All maps and plans must comply with the following requirements relating to the amount of detail or information to be provided: <ul style="list-style-type: none"> • state and show the relevant datum (Australian Height Datum (AHD) is preferred); • metric units; 	

Framework	Requirement	Included
	<ul style="list-style-type: none"> • title, north arrow, scale bar, text and legend; • date prepared and author; • be of appropriate resolution and scale for represented information; and • be legible in both the hardcopy and electronic versions of the submission. 	
TOR003 - 5	<p>All cross-sections must conform to the following standards:</p> <ul style="list-style-type: none"> • state and show the relevant datum (Australian Height Datum (AHD) is preferred); • metric units; • title, scale bar, text and legend; • date prepared and author; • be of appropriate resolution and scale for represented information; and • be legible in both the hardcopy and electronic versions of the submission. 	
TOR003 - 5.1.1	Maps required for Description of the Existing Environment	
TOR003 – 5.1.1.1	<p>Topographic Map showing:</p> <ul style="list-style-type: none"> • mineral claim boundaries; • existing surface contours; existing vegetation; • location of watercourses, including ephemeral and permanent rivers, creeks, swamps, streams, wetlands and any man-made water management structures; • surface water catchment boundaries; • direction of drainage and discharge from the application area; • location and extent of all previously disturbed areas associated with previous mining; and • location and extent of any adjacent conservation reserves, heritage sites or any other significant areas. 	
TOR003 – 5.1.1.2	<p>Local Geological Map showing:</p> <ul style="list-style-type: none"> • mineral claim boundaries; • location and dimensions of the deposit; and • topsoil/subsoil variation if there is a variation in soils over the application area. 	
TOR003 – 5.1.1.3	<p>Groundwater Map showing:</p> <ul style="list-style-type: none"> • groundwater wells in the surrounding area highlighting those used to determine the groundwater level. 	
TOR003 – 5.1.1.4	<p>Land Access Map showing:</p> <ul style="list-style-type: none"> • mineral claim boundaries; • proposed tenement boundary if an area smaller than the mineral claim is proposed; • any exempt land; • location of residences within and near the application area; and • human infrastructure as per clause 1.12. 	
TOR003 – 5.1.1.5	<p>Caves Map (if relevant) showing:</p> <ul style="list-style-type: none"> • mineral claim boundaries; • potential cave hosting geology; and • location of the cave(s). 	
TOOR006 - 5.1.2	Map(s) required for Description of the Proposed Quarrying Operations	
TOR003 – 5.1.2.1	<p>Proposed Site Layout Map showing all components of the proposed quarry operation including, but not limited to:</p> <ul style="list-style-type: none"> • tenement boundaries; • location of sediment management infrastructure; • if relevant location of process water dams; • location of haul roads; • if relevant location of fixed plant; 	

Framework	Requirement	Included
	<ul style="list-style-type: none"> location of mobile plant for stage 1 of quarrying; Location of overburden; and location and extent of topsoil/subsoil and product stockpiles. 	
TOR003 – 5.1.2.2	Sequence of Quarrying and Progressive Rehabilitation Map showing: <ul style="list-style-type: none"> proposed tenement boundaries; conceptual staging of each progressive quarrying stage; proposed native vegetation clearance; and conceptual staging of each progressive rehabilitation stage. 	
TOR003 – 5.1.2.3	Access Route Map showing: <ul style="list-style-type: none"> proposed access route for heavy vehicles; proposed exit route for heavy vehicles; and any road upgrades or new roads to be constructed if relevant. 	
TOR003 – 5.1.2.4	Quarry Completion Map showing: <ul style="list-style-type: none"> final landforms (including rehabilitated and non-disturbed areas); and proposed topographical contours of the entire site (including rehabilitated and non-disturbed areas). 	
TOR003 – 5.2.1	<i>Cross-sections required for description of the existing environment</i>	
TOR003 – 5.2.1.1	Geological Cross-Section(s) showing: <ul style="list-style-type: none"> a representation of the geological profile within the application area; and depth of the resource and any overlying overburden. 	
TOR003 – 5.2.1.2	Groundwater Cross-Section(s) showing: <ul style="list-style-type: none"> the proposed depth of mining; and the depth to groundwater. 	
TOR003 – 5.2.2	<i>Cross-sections required for description of operations</i>	
TOR003 – 5.2.2.1	Proposed Quarry Operation Cross-Section(s) showing: <ul style="list-style-type: none"> proposed pit depth; and proposed pit dimensions. 	
TOR003 – 5.2.2.2	Quarry Completion Cross Section(s) showing: <ul style="list-style-type: none"> pre quarrying natural surface; and proposed final rehabilitated surface. 	